

AYDOGAN OZCAN, Ph.D.

Chancellor's Professor & Volgenau Chair for Engineering Innovation - UCLA
HHMI Professor - Howard Hughes Medical Institute

Curriculum Vitae

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EDUCATION

- 2005, Ph.D. Stanford University, Stanford, CA, USA
Electrical Engineering Department
- 2002, M.S. Stanford University, Stanford, CA, USA
Electrical Engineering Department
- 2000, B.S. Bilkent University, Ankara, Turkey
Electrical and Electronics Engineering Department
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ACADEMIC APPOINTMENTS - RESEARCH EXPERIENCE

- 07/2019 – present, Volgenau Chair for Engineering Innovation, University of California, Los Angeles, Electrical & Computer Engineering Department, Los Angeles CA, USA
- 07/2014 – present, HHMI Professor, The Howard Hughes Medical Institute (HHMI)
- 07/2013 – present, Chancellor's Professor, University of California, Los Angeles, Electrical & Computer Engineering Department, Los Angeles CA, USA
- 07/2013 – present, Professor, University of California, Los Angeles, Electrical & Computer Engineering Department, Los Angeles CA, USA
- 07/2013 – present, Professor, University of California, Los Angeles, Bioengineering Department, Los Angeles CA, USA (joint appointment)
- 07/2013 – present, Professor, University of California, Los Angeles, Department of Surgery, Los Angeles CA, USA (joint appointment)
- 07/2013-present, Associate Director, California NanoSystems Institute (CNSI), University of California, Los Angeles, CA, USA
- 07/2011 – 07/2013, Associate Professor (tenured), University of California, Los Angeles, Electrical Engineering Department, Los Angeles CA, USA
- 07/2011 – 07/2013, Associate Professor, University of California, Los Angeles, Bioengineering Department, Los Angeles CA, USA (joint appointment)
- 07/2011 – 07/2013, Associate Professor, University of California, Los Angeles, Department of Surgery, Los Angeles CA, USA (joint appointment)
- 07/2010 – 07/2011, Assistant Professor, University of California, Los Angeles, Department of Surgery, Los Angeles CA, USA (joint appointment)
- 07/2007 – 07/2011, Assistant Professor, University of California, Los Angeles, Electrical Engineering Department, Los Angeles CA, USA

- 01/2006 – 07/2007, Research Faculty - Instructor, Harvard Medical School, Massachusetts General Hospital, Wellman Center for Photomedicine, Boston MA, USA
 - 06/2005 – 01/2006, Post-doctoral Fellow, Stanford University, Electrical Engineering Department, CA, USA
 - 09/2000 – 06/2005, Research Assistant, Stanford University, Electrical Engineering Department, CA, USA
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PROFESSIONAL SOCIETIES

- National Academy of Engineering (NAE), Member
 - National Academy of Inventors (NAI), Fellow & Lifetime Member
 - The American Association for the Advancement of Science (AAAS), Fellow & Lifetime Member
 - The International Society for Optical Engineering (SPIE), Fellow & Lifetime Member
 - Optical Society of America (OSA), Fellow & Lifetime Member
 - Institute of Electrical and Electronics Engineers (IEEE), Fellow
 - IEEE Photonics Society, Fellow Member
 - IEEE Engineering in Medicine and Biology Society (EMBS), Fellow Member
 - The American Institute for Medical and Biological Engineering (AIMBE), Fellow
 - Royal Society of Chemistry (RSC), Fellow
 - American Physical Society (APS), Fellow & Lifetime Member
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MAJOR AWARDS & HONORS

Federal Awards & Honors

- ***Presidential Early Career Award for Scientists and Engineers (PECASE)***, 2011
- ***Army Research Office (ARO), Young Investigator Award***, 2011
- ***NSF CAREER Award***, 2010
- ***NIH Director's New Innovator Award***, 2009
- ***Office of Naval Research (ONR), Young Investigator Award***, 2009

Professional Society Awards

- ***Member, National Academy of Engineering (NAE)***, 2025
- ***Dennis Gabor Award***, The International Society for Optical Engineering, 2023
- ***Joseph Fraunhofer Award & Robert M. Burley Prize***, Optica (OSA), 2022
- ***Fellow***, Asia-Pacific Artificial Intelligence Association (AAIA), 2021
- ***Fellow***, American Physical Society (APS), 2019
- ***Fellow***, The National Academy of Inventors (NAI), 2018
- ***Fellow***, The American Association for the Advancement of Science (AAAS), 2018
- ***Fellow***, The Royal Society of Chemistry (RSC), 2017
- ***Fellow***, IEEE – Institute of Electrical and Electronics Engineers, 2017
- ***Fellow***, American Institute for Medical and Biological Engineering (AIMBE), 2017
- ***Distinguished Lecturer Award***, IEEE Photonics Society, 2016
- ***ICO Prize***, The International Commission for Optics (ICO), 2015
- ***Fellow***, Optical Society of America (OSA), 2014
- ***Fellow***, The International Society for Optical Engineering (SPIE), 2013
- ***Biophotonics Technology Innovator Award***, The International Society for Optical Engineering (SPIE), 2013 {Inaugural Recipient}

- **Early Career Achievement Award**, The International Society for Optical Engineering (SPIE), 2011
- **IEEE Photonics Society Young Investigator Award**, 2009

Foundation Awards & Honors

- **Guggenheim Fellow**, The John Simon Guggenheim Memorial Foundation, 2017
- **Rahmi M. Koç Science Medal**, Koç University & Vehbi Koç Foundation, 2016 {Inaugural Recipient}
- **Ernst Abbe Lecture and Award**, Carl Zeiss Foundation, 2016
- **Vodafone Americas Foundation**, Wireless Innovation Award, 2016
- **Mary Kay Foundation**, Cancer Research Award, 2016
- **National Academy of Engineering (NAE)**, The Grainger Foundation Frontiers of Engineering Award, 2012
- **Rockefeller Foundation and mHealth Alliance**, Innovators Challenge Winner, 2011
- **Bill & Melinda Gates Foundation**, Grand Challenges Explorations Award, 2010
- **Vodafone Americas Foundation**, Wireless Innovation Award, 2009
- **Okawa Foundation Award**, Japan, 2008

Other Awards & Honors

- **Keith Terasaki Innovation Award**, Terasaki Institute, 2025 {Inaugural Recipient}
- **Frontiers of Science Award**, The International Congress of Basic Science, 2025
- **V.M. Watanabe Excellence in Research Award**, UCLA, 2024
- **Advanced Photonics EIC Choice Best Paper Award**, SPIE, 2024
- **ITK Bahattin Tatiş Science Award**, 2024
- **Light: Advanced Manufacturing, Outstanding Paper Award**, 2024
- **Highly Cited Researcher**, Web of Science – Clarivate, 2020, 2021, 2022, 2023, 2024
- **Researcher of the Year Award**, The Southern California Biomedical Council (SoCalBio), 2020
- **Blavatnik Awards**, National Award Finalist, 2020
- **Volgenau Chair for Engineering Innovation**, UCLA, 2019
- UCLA Health Innovation, Med-Tech Challenge Winner, 2019
- UCLA Innovation Fund Competition Winner, 2018
- **The Stillman Lecture**, University of Illinois, Urbana-Champaign (UIUC), 2018
- **TASSA President's Service Award**, TASSA, 2018
- **Turkish Science Academy, Member**, 2017
- **Biocom Life Science Catalyst Award**, 2017
- **U.S. National Academy of Engineering (NAE)**, EU-US Frontiers of Engineering Symposium – Committee Member, Session Chair, 2016
- **U.S. National Academy of Sciences**, Arab-American Frontiers of Science Fellowship, 2016
- **Blavatnik Awards**, National Award Finalist, 2016
- **Technology Pioneer, The World Economic Forum**, 2015 {Holomic LLC is selected as a Technology Pioneer, among the most promising early-stage companies in the world}
- **Postdoctoral Scholars Mentoring Award**, UCLA, 2015
- **U.S. National Academy of Sciences**, Arab-American Frontiers of Science, Engineering, and Medicine Symposium, Invited Speaker, 2015
- **The President's Cancer Panel, The Connected Cancer Patient Workshop**, Invited Speaker and Panelist, 2015
- **The White House Office of Science and Technology Policy, Microbiome Workshop**, Invited

Participant and Panelist, 2015

- **NIH Common Fund, Strategic Planning Workshop**, Invited Participant and Panelist, 2015
- **The Kavli Foundation, Kavli Futures Symposium on Microbiome**, Invited Participant and Panelist, 2015
- **Microscopy Today Innovation Award**, 2015
- **Blavatnik Awards**, National Award Finalist, 2015
- **Best Paper Award**, SPIE Translational Research Symposium (Photonics West Conference), 2015
- **HHMI Professor, The Howard Hughes Medical Institute (HHMI)**, 2014
- **National Academy of Engineering (NAE)**, Japan-America Frontiers of Engineering Symposium - Invited Participant, 2014
- **Blavatnik Awards**, National Award Finalist, 2014
- Chancellor's Professorship (UCLA), 2013
- **Microscopy Today Innovation Award**, 2013
- **JALA Ten** (presented by the Journal of Laboratory Automation), Selected Among 10 Breakthrough Technologies of The Year, 2013
- **World Technology Award on Health & Medicine**, presented by the World Technology Network in association with TIME, CNN, AAAS, Science, Technology Review, Fortune and Kurzweil, 2012
- **Popular Science**, Brilliant 10 Award, 2012
- IEEE NANOMED Conference, Best Paper Award, 2012
- **The Scientist**, Top Innovation of the Year, 2011
- Regional Health Care Innovation Challenge Award, The von Liebig Center, UCSD, 2011
- **National Academy of Engineering (NAE)**, U.S. Frontiers of Engineering Symposium - Invited Participant, 2011
- **Innovation Competition Award**, World Reconstruction Conference, Geneva, 2011
- **Outstanding Young Person of the Year - Medical Innovations**, JCI (Junior Chamber International) Turkey, 2011
- **LAUNCH Health Innovation Award**, presented by NASA, USAID, Department of State, and NIKE, 2010
- **National Geographic** Emerging Explorer Award, 2010
- **Popular Mechanics** Breakthrough Award, 2010
- **Netexplorateur Award**, Netexplorateur Observatory and Forum, France, 2010
- **PopTech** Science and Public Leaders Fellowship, 2010
- University of Southern California - Body Computing Slam Prize, 2010
- **MIT's Technology Review Magazine, TR 35 Award**, 2009
- Outstanding paper award, Annual Meeting of Biomedical Engineering Society (BMES), 2008
- Outstanding paper award, *Gordon Research Conference*, Lasers in Medicine & Biology, 2006.
- Turkish Ministry of Education, Presidential Fellowship, 1996 (*declined*)

EDITORIAL BOARDS & PROFESSIONAL SERVICE

- 2025, Session Organizer, Photonics & Electromagnetics Research Symposium (PIERS)
- 2025, Program Committee Member, Optica Conference on Lasers and Electro-Optics (CLEO)
- 2024-present, Advisory Board Member, NIH Center for Label-free Imaging and Multiscale Biophotonics (P41), Beckman Institute for Advanced Science and Technology
- 2024-present, Editorial Board Member, Biophotonics Discovery (SPIE)
- 2024-present, Member of the Meetings Council, Optica/OSA
- 2024, Session Chair, Optica Digital Holography and Three Dimensional Imaging Topical

Meeting

- 2024, Editor, Special Issue on Biomedical Imaging: Low-cost and portable imaging systems for rural and low-cost environments, *Current Opinion in Biomedical Engineering* (Elsevier)
- 2024, Program Committee Member, Optica Conference on Lasers and Electro-Optics (CLEO)
- 2024, Selection Committee Member, Schmidt Science Fellows Program
- 2023, Session Chair, Optica Frontiers of Optics Conference, Machine Learning Theme
- 2023, Session Chair, IEEE Nanotechnology Materials and Devices Conference (IEEE NMDC)
- 2023-present, Program Committee Member, “*Computational Optical Imaging and Artificial Intelligence in Biomedical Sciences*”, SPIE Photonics West Conference
- 2023, Program Committee Member, IEEE International Conference on Computational Photography
- 2023, Session Chair, SPIE Digital Optical Technologies Conference
- 2023, Program Committee Member, IEEE Photonics Conference
- 2023, Selection Committee Member, Schmidt Science Fellows Program
- 2022-present, Biomedical Imaging Section Editor, *Current Opinion in Biomedical Engineering* (Elsevier)
- 2022-current, Committee Member, SPIE Digital Optical Technologies Conference
- 2022-current, Guest Editor, Holography Collection, *Scientific Reports*
- 2022, Organizer & Chair, International Workshop on Photonics, Neuroscience and AI, at UCLA
- 2022, OSA/Optica Frontiers of Optics Conference, Machine Learning Theme Organizer
- 2022, Program Committee Member, IEEE International Conference on Computational Photography
- 2022-present, Program Committee Member, “*AI and Optical Data Sciences*”, SPIE Photonics West Conference
- 2021-present, Editorial Board Member, *Journal of Nanobiotechnology* (Springer Nature)
- 2021-2024, Senior Advisory Panel Member, *JPhys Photonics* (IOP)
- 2021, Guest Editor, *Biosensors and Bioelectronics*, Special Issue on Molecular & Cell Imaging
- 2021, OSA/Optica Frontiers of Optics Conference, Machine Learning Theme Organizer
- 2021, Session Chair, IEEE Photonics Conference
- 2020-2021, Program Committee Member, Biosensors Congress, Elsevier
- 2020-2021, Guest Editor, *Biosensors and Bioelectronics*, Special Issue on COVID-19 Biosensing Technologies
- 2020, 2021, Award Committee Chair, Rising Stars of Light Awards, *Light: Science & Applications*
- 2020-present, Editorial Board Member, *ACS Photonics*
- 2020-present, Editor in Chief, *eLight* (Springer Nature)
- 2020-present, Faculty Executive Committee Member, UCLA School of Engineering
- 2020, Program Committee Member, IEEE International Conference on Computational Photography
- 2019-present, Conference Chair & Session Chair “*Emerging Topics in Artificial Intelligence*”, SPIE Optics + Photonics Conference
- 2019, Program Committee Member, OSA Computational Optical Sensing and Imaging (COSI) Conference
- 2019, Program Committee Member, IEEE International Conference on Computational Photography
- 2019-2020, Committee Member, SPIE Biophotonics Technology Achievement Award Committee

- 2019, Session Chair, International Vacuum Congress (IVC)
- 2019, Session Chair, ECI Advances in Optics for Biotechnology, Medicine and Surgery Conference
- 2019, AIMBE Fellow Selection Subcommittee
- 2019, Program Committee Member, “*Optical Data Science*”, SPIE Photonics West Conference
- 2019, Program Committee Member, OSA Conference on Lasers and Electro-optics (CLEO)
- 2019, Program Committee Member, “*Label-free Biomedical Imaging and Sensing*”, SPIE Photonics West Conference
- 2018-current, Member of the Board of Trustees, Koç University, Turkey
- 2018, Program Committee Member, IEEE International Conference on Computational Photography
- 2018, Program Committee Member, Session Chair, OSA Computational Optical Sensing and Imaging (COSI) Conference
- 2018, Session Chair – Discussion Leader, Gordon Research Conference on Lasers in Medicine and Biology
- 2018, Session Chair, OSA Digital Holography & 3-D Imaging Conference
- 2018, Program Committee Member, Session Chair, Biosensors Congress, Elsevier
- 2018, Session Chair, Molecular Medicine Tri-Conference, Molecular Diagnostics for Infectious Diseases
- 2018, Session Chair, SPIE Photonics West Conference, Quantitative Phase Imaging
- 2018, Session Chair, SPIE Photonics West Conference, Optics and Biophotonics in Low-Resource Settings
- 2018, Session Chair, SPIE Photonics West Conference, Optical Components and Materials
- 2018, Session Chair, SPIE Photonics West Conference, Optical Data Science: Trends Shaping the Future of Photonics
- 2017-current, Executive Committee Member, co-PI, NSF Engineering Research Center (ERC), Precise Advanced Technologies and Health Systems for Underserved Populations
- 2017, Co-Chair, Light Conference (Changchun, China)
- 2017-present, Editorial Board Member, *Light: Science and Applications* (Springer Nature)
- 2017, Co-organizer, ACS Nano – Kavli Foundation Futures Symposium
- 2017, Member, IEEE Engineering in Medicine and Biology Society (EMBS) Fellows Committee
- 2017-2018, Chair, OSA Mees Medal Committee
- 2017, Program Committee Member, IEEE International Conference on Computational Photography
- 2017, Program Committee Member, OSA Computational Optical Sensing and Imaging (COSI) Conference
- 2017, Session Chair, SPIE Optical Metrology Conference
- 2017, Session Chair, International Congress on Analytical Nanoscience and Nanotechnology
- 2017, Member, Faculty Search Committee, UCLA Bioengineering Department
- 2016-2017, Member, Promotion Review Committee, UCLA Electrical Engineering Department
- 2016-present, Editorial Advisory Board Member, *ACS Nano*
- 2016, Program Committee Member, OSA Conference on Lasers and Electro-optics (CLEO)
- 2016, Session Chair, Biosensors Congress, Elsevier
- 2016-2018, Committee Member, OSA Mees Medal Committee
- 2016-2017, IEEE Photonics Society Distinguished Lecturer
- 2016-present, OSA Traveling Lecturer
- 2016-present, Member of the UCLA Postdoctoral Scholars Advisory Council

- 2015, Program Committee Member, Zeiss Symposium, Optics in the Digital World
- 2015, Host & Program Committee Member, OSA Incubator Meeting on Optical Biosensors for Medical Diagnostics
- 2015-current, Editorial Board Member, *Scientific Reports* – Journal (Springer Nature)
- 2015-current, Editorial Board Member, *Sensors* – Journal
- 2015, Session Chair, OSA Frontiers in Optics (FiO) Conference
- 2015, Session Chair, International Label-Free Technologies Conference (Elsevier)
- 2015-present, Conference Chair & Session Chair “*Optics and Biophotonics In Low-Resource Settings*”, SPIE Photonics West Conference
- 2015, Program Committee Member, OSA Frontiers in Optics (FiO) Conference
- 2015, Session Chair, ECI Conference on Photonics for Biology, Medicine and Surgery
- 2015-present, Program Committee Member, “*Optical Diagnostics and Sensing XV: Toward Point-of-Care Diagnostics*”, SPIE Photonics West Conference
- 2015-present, Program Committee Member, “*Quantitative Phase Imaging*”, SPIE Photonics West Conference
- 2014, Organizer and Chair, Workshop on Diagnostics Technologies for Point of Care and Resource Limited Settings - International Conference on Miniaturized Systems for Chemistry and Life Sciences (micro-TAS 2014)
- 2014-2020, Member of the Research Committee, Consortium of Universities for Global Health (CUGH)
- 2014-2016, Member, Space Assignment Committee, California NanoSystems Institute (CNSI)
- 2014, Session Chair, OSA Imaging Systems (IS) and Applications Topical Meeting
- 2014, Program Committee Member, IEEE Photonics Conference, Biophotonics
- 2014, Session Chair, “*Point-of-care Sensing and Imaging*” SPIE Photonics West Conference
- 2014-2021, Editorial Board Member, *Diagnostics* – Journal
- 2014, Program Committee Member, OSA Frontiers in Optics (FiO) Conference
- 2014, Program Committee Member, IEEE Photonics Conference, Nanophotonics
- 2014, MIT’s Technology Review TR35 Award – Turkey, Selection Committee Member
- 2014, General Chair, TASSA Annual Conference
- 2014-present, Chair, TASSA Young Scholar Awards Committee
- 2014, Committee Member, Kadir Has Awards Committee
- 2013, Founding Faculty Advisor, IEEE Engineering in Medicine and Biology Society (EMBS) Student Chapter at UCLA
- 2013, Program Committee Member, IEEE Photonics Conference, Nanophotonics
- 2013, Program Committee Member, OSA Frontiers in Optics (FiO) Conference
- 2013, Session Chair, OSA Frontiers in Optics (FiO) Conference
- 2013-present, Associate Director, California NanoSystems Institute (CNSI)
- 2013-present, Member of the Advisory Board, BioPhotonics Magazine
- 2013-present, Program Committee Member, International Conference on Photonics, Optics and Laser Technology
- 2013-present, Associate Editor, Nanophotonics Journal
- 2013, Program Committee Member, SPIE Optical Metrology Conference
- 2013, Session Chair, The Society for Laboratory Automation and Screening (SLAS) Annual Conference
- 2012-2020, Member of the Board of Directors, TASSA
- 2012-present, Awards Committee Member, SPIE
- 2012, General Conference Co-Chair, The International Conference on Advanced Laser

Applications in Science and Engineering (Nanjing, China)

- 2012, Program Committee Member, mHealthSys, ACM Conference on Embedded Networked Sensor Systems (SenSys)
- 2012-2015, Senior Member Selection Committee Member, SPIE
- 2012, Session Chair, SPIE Defense, Security and Sensing (DSS) Conference
- 2012, Program Committee Member, OSA Frontiers in Optics (FiO) Conference
- 2012, Program Committee Member, OSA Digital Holography and 3-D Imaging
- 2012, Program Committee Member, IEEE Photonics Society Annual Meeting
- 2012, Engineering Awards Committee Member, UCLA School of Engineering
- 2011, Session Chair, OSA Frontiers in Optics (FiO) Conference
- 2011, Session Chair, IEEE Engineering in Medicine and Biology Society Annual International Conference (EMBC)
- 2011, Session Chair, UC Systemwide Bioengineering Symposium
- 2011, Session Chair, Optical Society of America (OSA) Topical Meeting, Novel Techniques in Microscopy
- 2011, Organizer, UCLA - National Taiwan University (NTU) Joint Workshop
- 2011-present, Faculty Mentor, Regents Scholar Society at UCLA
- 2010, General Chair, IEEE Photonics Society, Winter Topical Meeting on Advanced Imaging in Bio-Photonics
- 2010, Program Committee Member, SPIE International Symposium on Defense, Security and Sensing
- 2010, Session Chair, “*BioPhotonics*”, BMES Annual Fall Meeting
- 2010, Founding Faculty Advisor, SPIE Student Chapter at UCLA
- 2009-present, SPIE Visiting Lecturer
- 2009-present, Program Committee Member, IEEE Photonics Society Annual Meeting
- 2008, General Chair, UCLA BioPhotonics Workshop
- 2008-present, Member of Scientific Advisory Board, Lifeboat Foundation
- 2008, Session Chair, “*Microarrays and Protein Chips*”, BMES Annual Fall Meeting
- 2008-present, Program Committee Member, SPIE Photonics West Conference
- 2008-present, Session Chair, “*Photonic Devices*” SPIE Photonics West Conference
- 2008-present, Reviewer, National Institutes of Health (NIH)
- 2008-present, Panelist and Reviewer, NSF Biophotonics Program
- 2008-present, Research Committee Member, UCLA California NanoSystems Institute (CNSI)
- 2008-present, Reviewer, Harvard-MIT Innovative Technology for Medicine Program (CIMIT)
- 2004-present, Ad hoc reviewer for various academic journals, including e.g., IEEE Journal of Quantum Electronics, IEEE Journal of Lightwave Technology, IEEE Photonics Technology Letters, Journal of Optical Society of America, A and B, Optics Letters, Electronics Letters, Micro & Nano Letters, Optics Express, IEEE Journal of Selected Topics in Quantum Electronics, Applied Physics Letters, Optical Materials, Proceedings of the National Academy of Sciences (*PNAS*), IEEE Transactions on Signal Processing, IEEE Transactions on Biomedical Engineering, Sensors, Integrative Biology, Analyst, Sensors and Actuators A & B, Lab on a Chip, Journal of Biomedical Optics, Biomedical Microdevices, Nature Protocols, Nature Communications, Applied Optics, Nano Letters, Nature Nanotechnology, ACS Nano, Nature Methods, Nature Chemistry, Nature Medicine, Nature Biomedical Engineering, Nature, Science Translational Medicine, Science Advances

REFEREED JOURNAL PUBLICATIONS

1. G-R. Han, A. Goncharov, M. Eryilmaz, S. Ye, B. Palanisamy, R. Ghosh, F. Lisi, E. Rogers, D. Guzman, D. Yigci, S. Tasoglu, D. Di Carlo, K. Goda, R.A. McKendry and **A. Ozcan**, "Machine learning in point-of-care testing: innovations, challenges, and opportunities," *Nature Communications* DOI: [10.1038/s41467-025-58527-6](https://doi.org/10.1038/s41467-025-58527-6) (2025)
2. Y. Li, T. Gan, J. Li, M. Jarrahi and **A. Ozcan**, "Unidirectional focusing of light using structured diffractive surfaces," *Advanced Optical Materials* DOI: [10.1002/adom.202403371](https://doi.org/10.1002/adom.202403371) (2025)
3. G. Han, A. Goncharov, M. Eryilmaz, S. Ye, H. Joung, R. Ghosh, E. Ngo, A. Tomoeda, Y. Lee, K. Ngo, E. Melton, O.B. Garner, D. Di Carlo and **A. Ozcan**, "Deep Learning-Enhanced Chemiluminescence Vertical Flow Assay for High-Sensitivity Cardiac Troponin I Testing," *Small* DOI: [10.1002/sml.202411585](https://doi.org/10.1002/sml.202411585) (2025)
4. Ç. Işıl, H. Ceylan Koydemir, M. Eryilmaz, K. de Haan, N. Pillar, K. Menteshoglu, A. Firat Unal, Y. Rivenson, S. Chandrasekaran, O.B. Garner and **A. Ozcan**, "Virtual Gram staining of label-free bacteria using darkfield microscopy and deep learning," *Science Advances* (AAAS) DOI: [10.1126/sciadv.ads2757](https://doi.org/10.1126/sciadv.ads2757) (2025)
5. R. Pradhan, D. Chimene, B.S. Ko, A. Goncharov, **A. Ozcan**, M.J. McShane, "Insertable Biomaterial-Based Multianalyte Barcode Sensor toward Continuous Monitoring of Glucose and Oxygen," *ACS Sensors* DOI: [10.1021/acssensors.4c01926](https://doi.org/10.1021/acssensors.4c01926) (2024)
6. M.S.S. Rahman, and **A. Ozcan**, "Physics and Artificial Intelligence: Illuminating the Future of Optics and Photonics," *Advanced Photonics* DOI: [10.1117/1.AP.6.5.050500](https://doi.org/10.1117/1.AP.6.5.050500) (2024)
7. J.D. FitzGerald, C. Barrios, T. Liu, A. Rosenthal, G.M. McCarthy, L. Chen, B. Bai, G. Ma, **A. Ozcan**, "A novel polarized light microscope for examination of birefringent crystals in synovial fluid," *Gout, Urate, and Crystal Deposition Disease* DOI: [10.3390/gucdd2040022](https://doi.org/10.3390/gucdd2040022) (2024)
8. G-R. Han, A. Goncharov, M. Eryilmaz, H-A. Joung, R. Ghosh, G. Yim, N. Chang, M. Kim, K. Ngo, M. Veszpremi, K. Liao, O. Garner, D. Di Carlo, **A. Ozcan**, "Deep learning-enhanced paper-based vertical flow assay for high-sensitivity troponin detection using nanoparticle amplification," *ACS Nano* DOI: [10.1021/acsnano.4c05153](https://doi.org/10.1021/acsnano.4c05153) (2024)
9. G. Ma, C-Y. Shen, J. Li, L. Huang, Ç. Işıl, F.O. Ardic, X. Yang, Y. Li, Y. Wang, M.S.S. Rahman, and **A. Ozcan**, "Unidirectional imaging with partially coherent light," *Advanced Photonics Nexus* DOI: [10.1117/1.APN.3.6.066008](https://doi.org/10.1117/1.APN.3.6.066008) (2024)
10. X. Yang, B. Bai, Y. Zhang, M. Aydin, Y. Li, S.Y. Selcuk, P.C. Costa, Z. Guo, G.A. Fishbein, K. Atlan, W. Dean Wallace, N. Pillar, **A. Ozcan**, "Virtual birefringence imaging and histological staining of amyloid deposits in label-free tissue using autofluorescence microscopy and deep learning," *Nature Communications* DOI: [10.1038/s41467-024-52263-z](https://doi.org/10.1038/s41467-024-52263-z) (2024)
11. Y. Ma, L. Huang, C. Sen, S. Burri, C. Bruschini, X. Yang, R.B. Cameron, G.A. Fishbein, B.N. Gomperts, **A. Ozcan**, E. Charbon, L. Gao, "Light-field tomographic fluorescence lifetime imaging microscopy," *Proceedings of the National Academy of Sciences (PNAS)* DOI: [10.1073/pnas.2402556121](https://doi.org/10.1073/pnas.2402556121) (2024)
12. H-J. Jang, H-A. Joung, A. Goncharov, A.G. Kanegusuku, C.W. Chan, K-T. Jerry Yeo, W. Zhuang, **A. Ozcan**, J. Chen, "Deep Learning-based Kinetic Analysis in Paper-based Analytical Cartridges Integrated with Field-effect Transistors," *ACS Nano* DOI: [10.1021/acsnano.4c02897](https://doi.org/10.1021/acsnano.4c02897) (2024)
13. R. Ghosh, H. Joung, A. Goncharov, B. Palanisamy, K. Ngo, K. Pejcinovic, N. Krockenberger, E. Horn, O. Garner, E. Ghazal, A. O'Kula, P. Arnaboldi, R. Dattwyler, **A. Ozcan**, D. Di Carlo, "Rapid single-tier serodiagnosis of Lyme disease," *Nature Communications* DOI: [10.1038/s41467-024-51067-5](https://doi.org/10.1038/s41467-024-51067-5) (2024)
14. J. Rosen, et al., "Roadmap on computational methods in optical imaging and holography," *Applied Physics B* DOI: [10.1007/s00340-024-08280-3](https://doi.org/10.1007/s00340-024-08280-3) (2024)
15. A. Goncharov, Z. Gorocs, R. Pradhan, B. Ko, A. Ajmal, A. Rodriguez, D. Baum, M. Veszpremi,

- X. Yang, M. Pindrys, T. Zheng, O. Wang, J.C. Ramella-Roman, M.J. McShane, **A. Ozcan**, "Insertable glucose sensor using a compact and cost-effective phosphorescence lifetime imager and machine learning," *ACS Nano* DOI: [10.1021/acsnano.4c06527](https://doi.org/10.1021/acsnano.4c06527) (2024)
16. M.S.S. Rahman, and A. Ozcan, "Integration of Programmable Diffraction with Digital Neural Networks," *ACS Photonics* DOI: [10.1021/acsp Photonics.4c01099](https://doi.org/10.1021/acsp Photonics.4c01099) (2024)
 17. B. Bai, X. Yang, T. Gan, J. Li, D. Mengu, M. Jarrahi, **A. Ozcan**, "Pyramid diffractive optical networks for unidirectional image magnification and demagnification," *Light: Science & Applications* DOI: [10.1038/s41377-024-01543-w](https://doi.org/10.1038/s41377-024-01543-w) (2024)
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1. A. Ozcan, "Integration of programmable diffraction with digital neural networks", SPIE Defense & Commercial Sensing, April 13-17, 2025, Orlando, FL, Paper # 13458-25 (*Invited Talk*)
2. A. Ozcan, "Virtual staining of label-free tissue using deep learning", ACS Spring Meeting, March 23-27, 2025, San Diego, CA (*Invited Talk*)
3. A. Ozcan, "Diffractive information processing and computational imaging", ACS Spring Meeting, March 23-27, 2025, San Diego, CA (*Invited Talk*)
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5. A. Ozcan, "Diffractive Optical Processors for Monitoring Structural Health", Society for Experimental Mechanics (SEM), International Modal Analysis (IMAC) Conference (SEM IMAC), February 10-13, 2025, Orlando, FL (*Keynote Talk*)
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70. S. Y. Selcuk, X. Yang, B. Bai, Y. Zhang, Y. Li, M. Aydin, A. F. Unal, A. Gomatam, Z. Guo, D. M. Angus, G. Kolodney, K. Atlan, T. K. Haran, N. Pillar, and A. Ozcan, "Automated HER2 Scoring in Breast Cancer Images Using Deep Learning and Pyramid Sampling," 24th Annual UC Systemwide Bioengineering Symposium, University of California, San Diego, June 24-25, 2024, CA, USA
71. X. Yang, B. Bai, Y. Zhang, M. Aydin, Y. Li, S. Y. Selcuk, P. C. Costa, Z. Guo, G. A. Fishbein, K. Atlan, W. D. Wallace, N. Pillar, and A. Ozcan, "Virtual birefringence imaging and histological staining of amyloid deposits in label-free tissue using autofluorescence microscopy and deep learning," 24th Annual UC Systemwide Bioengineering Symposium, University of California, San Diego, June 24-25, 2024, CA, USA
72. A. Ozcan, "Diffractive Information Processing and Computational Imaging", Optica Digital Holography and Three Dimensional Imaging Topical Meeting, June 3-6, 2024, Paestum, Italy (**Plenary Talk**)
73. S.S. Rahman, A. Ozcan, "Diffractive Information Processing and Computational Imaging," SIAM Conference on Imaging Science, May 28-31, 2024, Atlanta, USA (**Invited Talk**)
74. A. Ozcan, "Virtual Staining of Label-free Tissue Using Deep Learning," 26th Photonics North Conference, May 28-30, 2024, Vancouver, Canada (**Invited Talk**)
75. R. Wahhab, N. Kokikian, J. Li, J. Garfinkel, S. Martin, D. P. Beynet, A. Ozcan, P. O. Scumpia, "Combining portable reflectance confocal microscopy with machine learning for rapid "virtual" histology of residual tumor after biopsy," Society for Investigative Dermatology (SID) Annual Meeting, May 15-18, 2024, Dallas, TX, USA
76. N. Kokikian, R. Wahhab, J. Li, S. Martin, D. P. Beynet, A. Ozcan, P. O. Scumpia, "Applying virtual histology to reflectance confocal microscopy to distinguish malignant from benign cutaneous squamous neoplasms," Society for Investigative Dermatology (SID) Annual Meeting, May 15-18, 2024, Dallas, TX, USA
77. C-Y. Shen, J. Li, T. Gan, M. Jarrahi, A. Ozcan, "All-Optical Phase Conjugation Using a Diffractive Visual Processor" Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
78. Y. Li, N. Pillar, T. Liu, G. Ma, K. de Haan, Y. Zhang, A.J. Correa, Y. Wu, B. Bai, X. Yang, Y. Qi, W.D. Wallace, A. Ozcan, "Virtual staining-based diagnosis of organ transplant rejection" Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
79. Y. Li, N. Pillar, J. Li, T. Liu, D. Wu, S. Sun, G. Ma, K. de Haan, L. Huang, Y. Zhang, S. Hamidi, A. Urisman, T.K. Haran, W.D. Wallace, J.E. Zuckerman, A. Ozcan, "Virtual histological staining of label-free autopsy tissue sections via deep learning" Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
80. L. Huang, J. Li, X. Ding, Y. Zhang, H. Chen, A. Ozcan, "Neural network uncertainty quantification in inverse imaging problems using cycle consistency" Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
81. S.Y. Selcuk, X. Yang, B. Bai, Y. Zhang, Y. Li, M. Aydin, A.F. Unal, A. Gomatam, Z. Guo, D.M. Angus, G. Kolodney, K. Atlan, T.K. Haran, N. Pillar, A. Ozcan, "Deep Learning-Enabled Classification of HER2 Score in Breast Cancer Using Pyramid Sampling" Optica Conference on

- Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
82. B. Bai, H. Wei, X. Yang, T. Gan, D. Mengü, M. Jarrahi, A. Ozcan, "Class-specific image encryption using a diffractive optical processor" Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
 83. C. Isil, T. Gan, O. Ardic, K. Menteshoglu, J. Digani, H. Karaca, H. Chen, J. Li, D. Mengü, M. Jarrahi, K. Aksit, A. Ozcan, "Image denoising using diffractive optical processors" Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
 84. B. Bai, X. Yang, T. Gan, J. Li, D. Mengü, M. Jarrahi, A. Ozcan, "Unidirectional image magnification and demagnification using pyramid diffractive optical networks" Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2024, Charlotte, NC, USA
 85. N. Kokikian, R. Wahhab, J. Li, S. Martin, D. P. Beynet, A. Ozcan, P. O. Scumpia, "Biopsy free virtual histology to discriminate benign from malignant squamous neoplasms," American Association for Cancer Research (AACR) Annual Meeting, April 5-10, 2024, San Diego, CA
 86. R. Wahhab, N. Kokikian, J. Li, J. Garfinkel, S. Martin, D. P. Beynet, A. Ozcan, P. O. Scumpia, "Utilizing biopsy-free virtual histology for improved clinical efficiency in the dermatologic surgical setting," American Association for Cancer Research (AACR) Annual Meeting, April 5-10, 2024, San Diego, CA
 87. E.A. Deger, S.S. Rahman, T. Gan, Ç. Işıl, M. Jarrahi, and A. Ozcan, "Optical Data Transfer Around Opaque Occlusions Using Electronic Encoding and Diffractive Decoding," National Conference on Undergraduate Research (NCUR), April 8-10, 2024, Long Beach, CA
 88. F.O. Ardic, K. Menteshoglu, C. Isil, and A. Ozcan, "All-Optical Image Denoising Using a Diffractive Visual Processor," National Conference on Undergraduate Research (NCUR), April 8-10, 2024, Long Beach, CA
 89. A. Ozcan, "Virtual Staining of Label-free Tissue Using Deep Learning," Optica Biophotonics Congress: Biomedical Optics, April 7-10, 2024, Fort Lauderdale, FL USA (*Invited Talk*)
 90. S.S. Rahman, and A. Ozcan, "Diffractive Networks for Terahertz Applications," International Workshop on Terahertz Technology and Applications, Fraunhofer ITWM, March 12-13, 2024, Kaiserslautern, Germany (*Invited Talk*)
 91. X. Li, D. Mengü, A. Ozcan, and M Jarrahi, "High-speed and super-resolution terahertz imaging with a plasmonic photoconductive focal-plane array," Asia Light Conference, March 5-8, 2024, Singapore
 92. S.S. Rahman, T. Gan, E.A. Deger, Ç. Işıl, M. Jarrahi and A. Ozcan, "Information transfer around arbitrary opaque occlusions using programmed diffraction", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-57 (*Invited Talk*)
 93. S.S. Rahman, X. Yang, J. Li, B. Bai, and A. Ozcan, "Universal linear processing of spatially incoherent light with diffractive optical processors", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-36
 94. Y. Li, Y. Luo, D. Mengü, B. Bai, and A. Ozcan, "Diffractive optical networks enable quantitative phase imaging through random, unknown diffusers", SPIE Photonics West, Computational Optical Imaging and Artificial Intelligence in Biomedical Sciences, January 27- February 1, 2024, San Francisco, CA, Paper # 12857-32
 95. Y. Li, T. Gan, B. Bai, Ç. Işıl, M. Jarrahi, and A. Ozcan, "Transferring optical information through random unknown diffusers using a diffractive decoder with electronic encoding", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-60
 96. J. Li, X. Li, N.T. Yardimci, J. Hu, Y. Li, J. Chen, Y. Hung, M. Jarrahi, and A. Ozcan, "Single-pixel diffractive terahertz sensor enables rapid detection of hidden defects and structures", SPIE Photonics West, Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and

- Applications XVII, January 27- February 1, 2024, San Francisco, CA, Paper # 12885-57
97. L. Huang, H. Chen, T. Liu, and A. Ozcan, "Experiment-data-free self-supervised neural network for holographic microscopy imaging", SPIE Photonics West, Quantitative Phase Imaging X, January 27- February 1, 2024, San Francisco, CA, Paper # 12852-42
 98. A. Goncharov, H-A. Joung, R. Ghosh, G-R. Han, Z.S. Ballard, Q. Maloney, A. Bell, C.T.Z. Aung, O.B. Garner, D. Di Carlo, and A. Ozcan, "Multiplexed quantification of biomarkers using deep learning-based fluorescent vertical flow assay", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings X, January 27- February 1, 2024, San Francisco, CA, Paper # 12832-25
 99. Y. Ma, L. Huang, C. Sen, S. Burri, C. Bruschini, X. Yang, R.B. Cameron, G.A. Fishbein, B.N. Gomperts, A. Ozcan, E. Charbon, and L. Gao, "Light-field tomographic fluorescence lifetime imaging microscopy", SPIE Photonics West, Computational Optical Imaging and Artificial Intelligence in Biomedical Sciences, January 27- February 1, 2024, San Francisco, CA, Paper # 12857-46
 100. A. Ozcan, "Diffractive visual processors", SPIE Photonics West, Computational Optical Imaging and Artificial Intelligence in Biomedical Sciences, January 27- February 1, 2024, San Francisco, CA, Paper # 12857-34 (**Keynote Talk**)
 101. C. Shen, J. Li, D. Mengü and A. Ozcan, "Snapshot multispectral quantitative phase imaging (QPI) using diffractive networks", SPIE Photonics West, Quantitative Phase Imaging X, January 27- February 1, 2024, San Francisco, CA, Paper # 12852-41
 102. B. Bai, H. Wei, X. Yang, T. Gan, D. Mengü, M. Jarrahi, and A. Ozcan, "Data class-specific image encryption and transformation through diffractive optical networks", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-58
 103. Y. Li, J. Li, Y. Zhao, T. Gan, J. Hu, M. Jarrahi, A. Ozcan, "Universal polarization transformations using diffractive optical networks", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-59
 104. A. Ozcan, "Virtual staining of label-free tissue using deep learning", SPIE Photonics West, Quantitative Phase Imaging X, January 27- February 1, 2024, San Francisco, CA, Paper # 12852-44 (**Invited Talk**)
 105. L. Huang, J. Li, X. Ding, Y. Zhang, H. Chen and A. Ozcan, "Neural network uncertainty quantification in inverse imaging problems based on cycle consistency", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-56
 106. S.S. Rahman and A. Ozcan, "Time-lapse image classification boosts diffractive optical network inference accuracy", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-16
 107. J. Li, T. Gan, Y. Zhao, B. Bai, C-Y. Shen, S. Sun, M. Jarrahi and A. Ozcan, "Diffractive unidirectional imager designed by deep learning", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-61 (**Invited Talk**)
 108. J. Li, T. Gan, B. Bai, Y. Luo, M. Jarrahi, and A. Ozcan, "Massively parallel all-optical visual computing using a wavelength-multiplexed diffractive optical processor", SPIE Photonics West, AI and Optical Data Sciences V, January 27- February 1, 2024, San Francisco, CA, Paper # 12903-62
 109. H-A. Joung, R. Ghosh, A. Goncharov, B. Palanisamy, K. Ngo, K. Pejcinovic, N. Krockenberger, E.J. Horn, R.J. Dattwyler, P.M. Arnaboldi, O.B. Garner, D. Di Carlo and A. Ozcan, "Peptide-based point-of-care serodiagnosis of Lyme disease enabled by deep-learning", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings X, January 27- February 1, 2024, San Francisco, CA, Paper # 12832-26

110. D. Mengü, A. Tabassum, J. Li and M. Jarrahi and A. Ozcan, "Diffractive multispectral imager designed by deep learning", SPIE Photonics West, AI and Optical Data Sciences V, January 27-February 1, 2024, San Francisco, CA, Paper # 12903-63
111. A. Ozcan, "Computational Label-free Microscopy and Point-of-care Sensing," The 7th IEEE Internet of Things Summit, Intelligent Biomedical Applications, January 24-February 2, 2024, San Antonio, TX, USA (*Invited Talk*)
112. A. Ozcan and J. Li, "Diffractive Processing of Visual Information," Electronic Imaging Conference, Society for Imaging Science and Technology, January 21-25, 2024, San Francisco, USA (*Invited Talk*)
113. A. Ozcan, "Diffractive Information Processing and Computational Imaging," The 54th Winter Colloquium on the Physics of Quantum Electronics (PQE), January 7-12, 2024, Utah, USA (*Invited Talk*)
114. A. Ozcan, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," International Symposium on Imaging, Sensing, and Optical Memory (ISOM), November 19-22, 2023, Kagawa, Japan (*Keynote Talk*)
115. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," IEEE Asilomar Conference on Signals, Systems, and Computers, October 29-November 1, 2023, Asilomar, CA (*Invited Talk*)
116. A. Ozcan, "Deep Learning-designed Diffractive Materials for Optical Computing and Computational Imaging," IEEE Nanotechnology Materials and Devices Conference (IEEE NMDC), October 22-25, 2023, Paestum, Italy (*Keynote Talk*)
117. A. Ozcan, "Virtual Staining of Label-free Tissue Using Deep Learning," Nano-Balkan International Conference, October 16-20, 2023, Tirana, Albania (*Plenary Talk*)
118. A. Ozcan, "Diffractive Optical Processors," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA (*Visionary Talk*)
119. C. Shen, J. Li, D. Mengü, and A. Ozcan, "Single-Shot Multispectral Quantitative Phase Imaging (QPI) using a Diffractive Optical Processor," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle, WA
120. Y. Li, J. Li, Y. Zhao, T. Gan, J. Hu, M. Jarrahi, and A. Ozcan, "Universal polarization transformations using a deep learning-designed diffractive processor," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
121. Y. Li, Y. Luo, D. Mengü, B. Bai, and A. Ozcan, "All-optical quantitative phase imaging (QPI) through random unknown diffusers using a diffractive network," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
122. B. Bai, H. Wei, X. Yang, T. Gan, D. Mengü, M. Jarrahi, and A. Ozcan, "All-optical data class-specific image encryption using diffractive neural networks," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
123. H. Chen, L. Huang, T. Liu, and A. Ozcan, "Deep Learning-enabled Autofocusing and Pixel Super-Resolution in Holographic Imaging," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
124. J. Li, X. Li, N.T. Yardimci, J. Hu, Y. Li, J. Chen, Y. Hung, M. Jarrahi, and A. Ozcan, "Single-Pixel Diffractive Terahertz Processor for Nondestructive Detection of Hidden Objects and Defects," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
125. J. Li, T. Gan, Y. Zhao, B. Bai, C. Shen, S. Sun, M. Jarrahi, and A. Ozcan, "Unidirectional Imaging Using Diffractive Materials," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
126. Y. Li, T. Liu, H. Ceylan Koydemir, Y. Zhang, E. Yang, M. Eryilmaz, H. Wang, J. Li, B. Bai, G. Ma, and A. Ozcan, "Stain-free, rapid, and automated viral plaque assay using time-lapse holographic imaging and deep learning," Optica Frontiers in Optics (FiO) Conference, October

- 9-12, 2023, Seattle WA
127. S.S. Rahman, T. Gan, E.A. Deger, C. Isil, M. Jarrahi, and A. Ozcan, "Optical Communication Around Opaque Occlusions Using Electronic Encoding and Diffractive Decoding," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
 128. S.S. Rahman, X. Yang, J. Li, B. Bai, and A. Ozcan, "Universal Linear Transformations of Intensity Patterns under Spatially Incoherent Illumination," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
 129. S.S. Rahman, and A. Ozcan, "Time-lapse Image Classification through a Diffractive Optical Network," Optica Frontiers in Optics (FiO) Conference, October 9-12, 2023, Seattle WA
 130. A. Ozcan, "Diffractive optical networks & computational imaging without a computer," 28th Microoptics Conference, September 24-27, 2023, Miyazaki, Japan (*Invited Talk*)
 131. J. FitzGerald, T. Liu, C. Barrios, B. Bai, G. McCarthy, A. Rosenthal, and A. Ozcan, "Validation of single-shot computational polarized microscopy for crystal analysis of synovial fluid," American College of Rheumatology (ACR) Converge Annual Meeting, November 10–15, 2023, San Diego, CA, USA
 132. C. Barrios, A. Rosenthal, G. McCarthy, T. Liu, B. Bai, G. Ma, A. Ozcan, and J. D. FitzGerald, "Using a new engineering method, single-shot computational polarized light microscopy (SCPLM) in identifying crystals in synovial fluid," Gout, Hyperuricemia and Crystal-Associated Disease Network (G-CAN) 9th Annual Research Symposium, November 7-8, 2023, La Jolla, CA, USA
 133. A. Ozcan, "Virtual Staining of Label-free Tissue Using Deep Learning," International Forum on Microscopy (IFM), September 8-10, 2023, Zhongshan, China (*Plenary Talk*)
 134. A. Ozcan, "Diffractive optical networks," International Conference on Materials Science, Engineering & Technology, September 7-9, 2023, Singapore (*Keynote Talk*)
 135. A. Ozcan, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," Royal Society of Chemistry (RSC), Tokyo International Conference, September 7-8, 2023, Chiba, Japan (*Plenary Lecture*)
 136. A. Goncharov, H-A. Joungh, R. Ghosh, G-R. Han, Z.S. Ballard, Q. Maloney, A. Bell, C.T.Z. Aung, O.B. Garner, D. Di Carlo, and A. Ozcan, "Deep learning-enabled fluorescent point-of-care sensor for multiplexed quantification of biomarkers from serum," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12655-53
 137. A. Ozcan, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," SPIE-CLP Conference on Advanced Photonics, August 22-23, 2023, San Diego CA, USA (*Invited Talk*)
 138. Y. Li, Y. Luo, D. Mengu, B. Bai, and A. Ozcan, "All-optical quantitative phase imaging through random diffusers using a diffractive network," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12655-47
 139. J. Li, T. Gan, B. Bai, Y. Luo, M. Jarrahi, and A. Ozcan, "All-optical Computation of a large group of linear transformations using a broadband diffractive optical network," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12655-42
 140. J. Li, T. Gan, Y. Zhao, B. Bai, C-Y. Shen, S. Sun, M. Jarrahi and A. Ozcan, "Deep learning-designed unidirectional imagers," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12655-37
 141. H-A. Joungh, R. Ghosh, A. Goncharov, B. Palanisamy, K. Ngo, K. Pejcinovic, N. Krockenberger, E.J. Horn, R.J. Dattwyler, P.M. Arnaboldi, O.B. Garner, D. Di Carlo and A. Ozcan, "Deep-learning enabled point-of-care sensor for Lyme disease diagnosis," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12655-19

142. X. Li, D. Mengu, A. Ozcan, M. Jarrahi, "Plasmonic photoconductive terahertz focal-plane array for super-resolution and high-speed imaging," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12683-25 (*Invited Talk*)
143. B. Bai, H. Wei, X. Yang, T. Gan, D. Mengu, M. Jarrahi, and A. Ozcan, "Data class-specific all-optical transformations using diffractive computing," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12655-49
144. S.S. Rahman, A. Ozcan, "Time-lapse image classification using a diffractive optical network," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA, Paper # 12655-45
145. A. Ozcan, "Diffractive optical networks & computational imaging without a computer," SPIE Optics and Photonics, August 20-24, 2023, San Diego CA, USA (*Invited Talk*)
146. A. Ozcan, "Diffractive optical networks & computational imaging without a computer," Conference on Visible Light Communication and Optical Computing, Chinese Optical Society, August 18-20, 2023, Shenzhen, China (*Plenary Talk*)
147. A. Ozcan, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," Gordon Research Conference (GRC) – Chemical Imaging, July 30 - August 4, 2023, Boston, MA, USA (*Invited Talk*)
148. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," International Conference on Optical MEMS and Nanophotonics (OMN), July 30 - August 3, 2023, Unicamp, Brazil (*Plenary Talk*)
149. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," International Conference on Quantum Engineered Sensing and Information Technology, June 27-30, 2023, Paris, France (*Invited Talk*)
150. A. Ozcan, "Virtual Staining of Label-free Tissue using Deep Learning," SPIE Optical Metrology Conference, June 26-29, 2023, Munich, Germany (*Invited Talk*)
151. A. Goncharov, H-A. Joung, R. Ghosh, G. Han, Z.S. Ballard, Q. Maloney, A. Bell, C.T.Z. Aung, O.B. Garner, D. Di Carlo and A. Ozcan, "Paper-based fluorescence assay for multiplexed quantification of biomarkers using deep learning," 23rd Annual UC Systemwide Bioengineering Symposium, June 22-23, 2023, University of California, Berkeley, CA, USA
152. H-A. Joung, R. Ghosh, A. Goncharov, B. Palanisamy, K. Ngo, K. Pejcinovic, N. Krockenberger, E.J. Horn, R.J. Dattwyler, P.M. Arnaboldi, O.B. Garner, D. Di Carlo and A. Ozcan, "Deep-learning enabled peptide-based serodiagnostic assay for point-of-care testing of Lyme disease," 23rd Annual UC Systemwide Bioengineering Symposium, June 22-23, 2023, University of California, Berkeley, CA, USA
153. Y. Li, T. Liu, H. C. Koydemir, Y. Zhang, E. Yang, M. Eryilmaz, H. Wang, J. Li, B. Bai, G. Ma, and A. Ozcan, "Rapid, automated, and stain-free viral plaque assay using deep learning and holography," 23rd Annual UC Systemwide Bioengineering Symposium, June 22-23, 2023, University of California, Berkeley, CA, USA
154. Y. Zhang, L. Huang, T. Liu, K. de Haan, Y. Li, B. Bai and A. Ozcan, "Neural network-based virtual staining of defocused autofluorescence images of label-free tissue," 23rd Annual UC Systemwide Bioengineering Symposium, June 22-23, 2023, University of California, Berkeley, CA, USA
155. X. Yang, B. Bai, Y. Li, Y. Zhang, T. Liu, K. de Haan, and A. Ozcan, "Virtual histological stain transfer through a cascaded deep neural network," 23rd Annual UC Systemwide Bioengineering Symposium, June 22-23, 2023, University of California, Berkeley, CA, USA
156. X. Li, D. Mengu, A. Ozcan, M. Jarrahi, "16 Frames-per-Second Terahertz Time-Domain Imaging through a Plasmonic Photoconductive Focal-Plane Array," IEEE MTT International Microwave Symposium – IMS, June 11-16, 2023, San Diego, USA

157. Y. Li, B. Bai, Y. Luo, E. Cetintas, A. Ozcan, "All-optical object classification through unknown phase diffusers using a single-pixel diffractive machine vision system" OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
158. C. Isil, D. Mengü, Y. Zhao, A. Tabassum, J. Li, Y. Luo, M. Jarrahi, A. Ozcan, "Super-resolution image projection using a diffractive optical decoder," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
159. H.-A. Joung, R. Ghosh, A. Goncharov, K. Ngo, B. Palanisamy, E. J. Horn, P. M. Arnaboldi, R. J. Dattwyler, O. B. Garner, D. Di Carlo, A. Ozcan, "Computational optical sensor with a paper-based peptide panel assay for point-of-care testing of Lyme disease," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 7-12, 2023, San Jose, CA USA
160. D. Zhang, D. Xu, Y. Li, Y. Luo, J. Hu, Y. Huang, A. Ozcan, X. Duan, "Nonlinear Optoelectronic Filter-Array for Intelligent Glare Reduction," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA, USA
161. X. Li, D. Mengü, A. Ozcan, M. Jarrahi, "Time-Domain Terahertz Video Captured With a Plasmonic Photoconductive Focal-Plane Array," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA, USA
162. L. Huang, H. Chen, T. Liu, A. Ozcan, "Self-supervised neural network for holographic microscopy," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
163. X. Li, D. Mengü, A. Ozcan, M. Jarrahi, "Super-Resolution Terahertz Imaging Through a Plasmonic Photoconductive Focal-Plane Array," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA, USA
164. B. Bai, Y. Luo, T. Gan, J. Hu, Y. Li, Y. Zhao, D. Mengü, M. Jarrahi, A. Ozcan, "Data class-specific imaging using diffractive computing," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA, USA
165. Y. Zhang, L. Huang, T. Liu, K. Cheng, K. de Haan, Y. Li, B. Bai, A. Ozcan, "Neural network-based virtual staining of defocused autofluorescence images of label-free tissue," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
166. D. Mengü, A. Tabassum, M. Jarrahi, A. Ozcan, "Multispectral Imaging Using a Diffractive Network," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
167. J. Li, Y. Hung, O. Kulce, D. Mengü, A. Ozcan, "All-Optical Computing of a Group of Linear Transformations Using a Polarization Multiplexed Diffractive Neural Network," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 7-12, 2023, San Jose, CA, USA
168. D. Mengü, Y. Zhao, A. Tabassum, M. Jarrahi, A. Ozcan, "All-Optical Interconnects: Diffractive Permutation Networks," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
169. Y. Zhang, Yi Luo, Tairan Liu, Alan Yu, Yichen Wu, A. Ozcan, "Label-free bio-aerosol detection and classification using a virtual impactor, holography, and deep learning," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
170. D. Mengü, A. Ozcan, "All-Optical Phase Recovery: Quantitative Phase Imaging Using Diffractive Optical Networks," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 07-12, 2023, San Jose, CA USA
171. J. Li, B. Bai, Y. Luo, A. Ozcan, "Massively-Parallel Broadband Diffractive Processor for All-Optical Computation of a Large Set of Linear Transformations," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 7-12, 2023, San Jose, CA, USA
172. A. Goncharov, H.-A. Joung, R. Ghosh, G.-R. Han, Z. S. Ballard, Q. Maloney, A. Bell, C. T. Z. Aung, O. B. Garner, D. Di Carlo and A. Ozcan, "Fluorescence-based multiplexed point-of-care

- sensor using deep learning," OSA/Optica Biophotonics Congress, April 23-27, 2023, Vancouver, Canada
173. A. Ozcan, "Deep-learning-enabled computational microscopy and diffractive imaging," Optics and Photonics International Congress (OPIC), Biomedical Imaging and Sensing Conference (SPIE), April 17 - 21, 2023, Pacifico Yokohama, Japan (*Invited Talk*)
 174. H. Joung, R. Ghosh, A. Goncharov, Z. Ballard, R. Dattwyler, P. Arnaboldi, O. Garner, D. Carlo, A. Ozcan, "Computational paper-based vertical flow assay for Lyme disease diagnosis" SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IX, January 28 - February 2, 2023, San Francisco, CA, Paper # 12369-19
 175. X. Yang, B. Bai, Y. Li, Y. Zhang, T. Liu, K. de Haan, and A. Ozcan, "Virtual stain-to-stain transformations via cascaded deep neural networks", SPIE Photonics West, Multimodal Biomedical Imaging XVIII, January 28-February 2, 2023, San Francisco, CA, Paper # 12371-17
 176. B. Bai, H. Wang, Y. Li, K. de Haan, Y. Zhang, J. Li, X. Yang, M. Darrow, E. Kamangar, H. Lee, Y. Rivenson, and A. Ozcan, "Virtual HER2 staining of Label-free Breast Tissue using Autofluorescence Imaging and Deep Learning", SPIE Photonics West, Advanced Biomedical and Clinical Diagnostic and Surgical Guidance Systems XXI, January 28- February 2, 2023, San Francisco, CA, Paper # 12368-26
 177. B. Bai, Y. Luo, T. Gan, J. Hu, Y. Li, Y. Zhao, D. Mengu, M. Jarrahi, and A. Ozcan, "Data class-specific imaging with all-optical erasure of undesired objects using diffractive computing", SPIE Photonics West, AI and Optical Data Sciences IV, January 28- February 2, 2023, San Francisco, CA, Paper # 12438-77
 178. Ç. Işıl, D. Mengu, Y. Zhao, A. Tabassum, J. Li, Y. Luo, M. Jarrahi, and A. Ozcan, "Diffractive decoders project super-resolved images", SPIE Photonics West, AI and Optical Data Sciences IV, January 31 - February 2, 2023, San Francisco, CA, Paper # 12438-1
 179. A. Ozcan, "Deep-learning-enabled computational microscopy and diffractive imaging," SPIE Photonics West, Biophotonics Plenary Session, January 31 - February 2, 2023, San Francisco, CA (*Plenary Talk*)
 180. A. Ozcan, "Diffractive Optical Networks and Computational Imaging Without a Computer," SPIE Photonics West, Practical Holography XXXVII: Displays, Materials, and Applications, January 31 - February 2, 2023, San Francisco, CA (*Invited Talk*)
 181. K. de Haan, Y. Rivenson, A. Ozcan, "Deep learning-based virtual staining of histological tissues," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IX, January 31 - February 2, 2023, San Francisco, CA (*Invited Talk*)
 182. J. Li, J. Garfinkel, X. Zhang, D. Wu, Y. Zhang, K. de Haan, H. Wang, T. Liu, B. Bai, Y. Rivenson, G. Rubinstein, P. O. Scumpia and A. Ozcan, "Label-free, in vivo virtual histology of skin using reflectance confocal microscopy and deep learning", SPIE Photonics West, Label-free Biomedical Imaging and Sensing (LBIS), January 28 - February 2, 2023, San Francisco, CA, Paper # 12391-54
 183. X. Li, D. Mengu, A. Ozcan and M. Jarrahi, "Terahertz pixel-super-resolution imaging with a plasmonic focal-plane array", SPIE Photonics West, Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XVI, January 28 - February 2, 2023, San Francisco, CA, Paper # 12420-22
 184. J. Li, Y. Hung, O. Kulce, D. Mengu and A. Ozcan, "Polarization diffractive networks: performing multiple linear transformations using a polarization-encoded diffractive optical network", SPIE Photonics West, AI and Optical Data Sciences IV, January 28 - February 2, 2023, San Francisco, CA, Paper # 12438-9
 185. D. Mengu, Y. Zhao, A. Tabassum, M. Jarrahi and A. Ozcan, "Diffractive optical permutation networks", SPIE Photonics West, AI and Optical Data Sciences IV, January 28 - February 2, 2023, San Francisco, CA, Paper # 12438-6

186. L. Huang, X. Yang, T. Liu, and A. Ozcan, "Few-shot transfer learning using a recurrent neural network for hologram reconstruction", SPIE Photonics West, AI and Optical Data Sciences IV, January 28 - February 2, 2023, San Francisco, CA, Paper # 12438-14
187. D. Mengu and A. Ozcan, "Quantitative phase imaging and all-optical phase recovery using diffractive optical networks", SPIE Photonics West, Quantitative Phase Imaging IX, January 28 - February 2, 2023, San Francisco, CA, Paper # 12389-28
188. Y. Li, T. Liu, H. C. Koydemir, H. Wang, K. O'Riordan, B. Bai, Y. Haga, J. Kobashi, H. Tanaka, T. Tamaru, K. Yamaguchi and A. Ozcan, "Rapid detection and classification of bacterial colonies using a thin film transistor (TFT) image sensor and deep learning", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IX, January 28-February 2, 2023, San Francisco, CA, Paper # 12369-16
189. Y. Li, T. Liu, H. C. Koydemir, Y. Zhang, E. Yang, H. Wang, J. Li, B. Bai, and A. Ozcan, "Stain-free, rapid, and quantitative viral plaque assay using deep learning and time-lapse holographic imaging", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IX, January 28-February 2, 2023, San Francisco, CA, Paper # 12369-20
190. H. Chen, L. Huang, T. Liu and A. Ozcan, "Deep learning-based hologram reconstruction with superior external generalization", SPIE Photonics West, QPI Methodologies III, January 28-February 2, 2023, San Francisco, CA, Paper # 12389-33
191. B. Bai, Y. Li, Y. Luo, X. Li, E. Cetintas, M. Jarrahi and A. Ozcan, "Object classification through unknown random diffusers using a single-pixel diffractive network and spectrum encoding", SPIE Photonics West, AI and Optical Data Sciences IV, January 28 - February 2, 2023, San Francisco, CA, Paper # 12438-24
192. Y. Li, Y. Luo, B. Bai and A. Ozcan, "Diffractive imagers see through random unknown diffusers", SPIE Photonics West, AI and Optical Data Sciences IV, January 28 - February 2, 2023, San Francisco, CA, Paper # 12438-74
193. Y. Zhang, L. Huang, T. Liu, K. Cheng, K. de Haan, Y. Li, B. Bai and A. Ozcan, "Deep learning-based virtual staining of defocused autofluorescence images of label-free tissue", SPIE Photonics West, Optical Biopsy XXI: Toward Real-Time Spectroscopic Imaging and Diagnosis, January 31- February 1, 2023, San Francisco, CA, Paper # 12373-23
194. Y. Luo, Y. Zhang, T. Liu, A. Yu, Y. Wu and A. Ozcan, "Label-free bio-aerosol detection and classification using a virtual impactor and deep learning", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IX, January 28-29, 2023, San Francisco, CA, Paper # 12369
195. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," Electronic Imaging Conference, Society for Imaging Science and Technology, January 16-19, 2023, San Francisco, USA (*Invited Talk*)
196. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," The 53rd Winter Colloquium on the Physics of Quantum Electronics (PQE), January 9-13, 2023, Utah, USA (*Invited Talk*)
197. B. Palanisamy, J. Jeon, H. Joung, K. Ngo, R. Ghosh, A. Ozcan, D. Di Carlo, "Simulation-driven Engineering Design of Vertical Flow Assays," IEEE EMBS Micro and Nanotechnology in Medicine Conference, December 5-9, 2022, Hawaii, USA
198. V. Shah, X. Yang, M. Ouyang, G. Destgeer, S. Udani, A. Arnheim, H. Koydemir, A. Ozcan, D. Di Carlo, "Lab-on-a-Particle-based NT-proBNP Assay and Portable Reader," IEEE EMBS Micro and Nanotechnology in Medicine Conference, December 5-9, 2022, Hawaii, USA
199. A. Goncharov, H.-A. Joung, Z. S. Ballard, O. Garner, D. Di Carlo, A. Ozcan, "Deep Learning-Enabled Point-of-Care Sensing Using Multiplexed Paper-Based Sensors", World Point of Care & At Home Diagnostics Summit, Nov 30 - Dec 1, 2022, San Diego, CA, USA (*Invited Talk*)

200. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," International Conference on Optical and Photonic Engineering (icOPEN), November 24-27, 2022, Virtual (***Plenary Talk***)
201. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," SPIE Conference on Advanced Photonics, November 21-23, 2022, Virtual (***Invited Talk***)
202. A. Ozcan, "Diffractive Optical Networks & Computational Imaging Without a Computer," IEEE Photonics Conference, November 13-17, 2022, Vancouver, Canada (***Invited Talk***)
203. V. Shah, X. Yang, M. Ouyang, A. Arnheim, H. Koydemir, D. Tseng, Y. Luo, S. Udani, G. Destgeer, A. Ozcan, D. Di Carlo, "Lab-on-a-particle assay and portable reader for accessible monitoring of heart failure," MicroTAS 2022 - The 26th International Conference on Miniaturized Systems for Chemistry and Life Sciences, October 23-27, 2022, Hangzhou, China
204. J. Li, J. Garfinkel, X. Zhang, D. Wu, Y. Zhang, K. de Haan, H. Wang, T. Liu, B. Bai, Y. Rivenson, P. Scumpia, and A. Ozcan, "Deep Learning Enables Noninvasive, Biopsy-free Virtual Histology of Skin Using Reflectance Confocal Microscopy," BMES (Biomedical Engineering Society) Annual Meeting, October 12-15, 2022, San Antonio, TX, USA
205. H-A. Joung, Y. Luo, and A. Ozcan, "Neural Network-enabled Quantitative Particle Agglutination Assay Using Lensfree Microscopy," BMES (Biomedical Engineering Society) Annual Meeting, October 12-15, 2022, San Antonio, TX, USA
206. B. Bai, H. Wang, Y. Li, K. de Haan, Y. Zhang, J. Li, M. Darrow, E. Kamangar, Y. Rivenson and A. Ozcan, "Virtual Immunohistochemical Staining of Label-free Breast Tissue Using Deep Learning," BMES (Biomedical Engineering Society) Annual Meeting, October 12-15, 2022, San Antonio, TX, USA
207. R. Ghosh, H-A. Joung, A. Goncharov, B. Palanisamy, K. Pejcinovic, N. Krockenberger, E. Horn, P. Arnaboldi, O. Garner, A. Ozcan, and D. Di Carlo, "Multiplexed Point-of-care Vertical Flow Assay for Lyme Disease Diagnosis," BMES (Biomedical Engineering Society) Annual Meeting, October 12-15, 2022, San Antonio, TX, USA
208. Y. Li, Y. Luo, B. Bai and A. Ozcan, "Diffractive optical imagers can see through random unknown diffusers," Optica/OSA Frontiers in Optics + Laser Science (FiO-LS) Conference, October 17-20, 2022, Rochester, NY USA
209. X. Yang, B. Bai, Y. Li, Y. Zhang., T. Liu, K. de Haan, A. Ozcan, "Virtual histological stain transformations through cascaded deep neural networks," Optica/OSA Frontiers in Optics + Laser Science (FiO-LS) Conference, October 17-20, 2022, Rochester, NY USA
210. Y. Li, T. Liu, H. C. Koydemir, H. Wang, K. O'Riordan, B. Bai, Y. Haga, J. Kobashi, H. Tanaka, T. Tamaru, K. Yamaguchi and A. Ozcan, "Early Detection and Classification of Bacterial Colonies Using a Thin-Film-Transistor (TFT)-Based Image Sensor and Deep Learning," Optica/OSA Frontiers in Optics + Laser Science (FiO-LS) Conference, October 17-20, 2022, Rochester, NY USA
211. L. Huang, X. Yang, T. Liu, A. Ozcan, "Few-shot Transfer Learning of a Recurrent Neural Network (RNN) for Holographic Image Reconstruction," Optica/OSA Frontiers in Optics + Laser Science (FiO-LS) Conference, October 17-20, 2022, Rochester, NY USA
212. H. Chen, L. Huang, T. Liu and A. Ozcan, "A Broadly Generalizable Deep Neural Network for Rapid Phase Recovery and Hologram Reconstruction," Optica/OSA Frontiers in Optics + Laser Science (FiO-LS) Conference, October 17-20, 2022, Rochester, NY USA
213. H.-A. Joung, R. Ghosh, A. Goncharov, K. Ngo, B. Palanisamy, M. Veszpremi, E. Horn, P. Arnaboldi, R. Dattwyler, O. Garner, D. Di Carlo, A. Ozcan, "Paper-Based Computational Multi-Peptide Optical Sensor for Point-of-Care Testing of Lyme Disease", Optica/OSA Frontiers in Optics + Laser Science (FiO-LS) Conference, October 17-20, 2022, Rochester, NY USA (***Postdeadline Paper***)

214. A. Ozcan, "Deep Learning-enabled computational microscopy for biophotonics" SPIE Translational Biophotonics & Additive Manufacturing, September 12-14, 2022, Los Angeles, CA, USA (*Invited Talk*)
215. A. Goncharov, H. Joung, Z.S. Ballard, D. Di Carlo, O.B. Garner, and A. Ozcan, "Computational sensing with a multiplexed paper-based vertical flow assay for point-of-care applications" SPIE Translational Biophotonics & Additive Manufacturing, September 12-14, 2022, Los Angeles, CA, USA
216. A. Ozcan, "Diffractive Optical Computing," 25th Congress of the International Commission for Optics (ICO), September 5-9, 2022, Dresden, Germany (*Invited Talk*)
217. X. Li, D. Mengu, A. Ozcan, M. Jarrahi, "Super-Resolution Terahertz Imaging with Plasmonic Focal-Plane Arrays", International Conference on Infrared, Millimeter, and Terahertz Waves, August 28- September 2, 2022, Delft, Netherlands (*Keynote Talk*)
218. Y. Luo, D. Mengu, A. Ozcan, "Diffractive computing using cascadable all-optical NAND gates," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-3
219. M.S.S. Rahman, A. Ozcan, "All-optical reconstruction of holograms using diffractive networks," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-25
220. Y. Luo, Y. Zhao, J. Li, E. Çetintaş, Y. Rivenson, M. Jarrahi, A. Ozcan, "Imaging through unknown, random diffusers using diffractive all-optical computing," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-26
221. L. Huang, X. Yang, T. Liu, A. Ozcan, "Few-shot generalizable hologram reconstruction model using a recurrent neural network (RNN)," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-29
222. D. Mengu, A. Ozcan, "Quantitative phase imaging using diffractive optical networks," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-32
223. J. Li, J. Garfinkel, X. Zhang, D. Wu, Y. Zhang, K. de Haan, H. Wang, T. Liu, B. Bai, Y. Rivenson, G. Rubinstein, P. Scumpia, A. Ozcan, "Deep learning-enabled, non-invasive virtual histology of skin using reflectance confocal microscopy," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-35
224. B. Bai, H. Wang, Y. Li, K. de Haan, F. Colonnese, Y. Wan, J. Zuo, N.B. Doan, X. Zhang, Y. Zhang, J. Li, W. Dong, M.A. Darrow, E. Kamangar, H. Sung Lee, Y. Rivenson, A. Ozcan, "Virtual immunohistochemical (IHC) staining of unlabeled tissue using deep learning," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-36
225. H. Wang, Y. Rivenson, A. Ozcan, "Virtual histological staining via deep learning," SPIE Optics and Photonics, August 21-25, 2022, San Diego CA, USA, Paper # 12204-38 (*Invited Talk*)
226. A. Ozcan, "Deep Learning-enabled Computational Microscopy and Sensing," ACS Fall Meeting, August 21-25, 2022, Chicago, IL, USA (*Invited Talk*)
227. Y. Li, T. Liu, H. C. Koydemir, H. Wang, K. O'Riordan, B. Bai, A. Ozcan, "Deep learning-based early detection and classification of bacteria using a thin film transistor array", ACS Fall Meeting, August 21-25, 2022, Chicago, IL, USA
228. K. de Haan, Y. Zhang, J. E. Zuckerman, T. Liu, Y. Rivenson, W. Dean Wallace, A. Ozcan, "Deep learning-based transformation from H&E into special stains," 22nd Annual UC Systemwide Bioengineering Symposium, August 8-10, 2022, University of California, Santa Barbara, CA, USA
229. C. Isil, K. de Haan, Z. Gorocs, H. C. Koydemir, S. Peterman, D. Baum, F. Song, T. Skandakumar, E. Gumustekin, A. Ozcan, "Phenotypic analysis of microalgae populations through label-free imaging flow cytometry," 22nd Annual UC Systemwide Bioengineering Symposium, August 8- 10, 2022, University of California, Santa Barbara, CA, USA

230. Y. Zhang, T. Liu, M. Singh, E. Çetintaş, Y. Luo, Y. Rivenson, K. V. Larin, A. Ozcan, “Deep learning-based image reconstruction in optical coherence tomography using undersampled spectral data,” 22nd Annual UC Systemwide Bioengineering Symposium, August 8-10, 2022, University of California, Santa Barbara, CA, USA
231. B. Bai, H. Wang, Y. Li, K. de Haan, F. Colonnese, Y. Wan, J. Zuo, N. Doan, X. Zhang, Y. Zhang, J. Li, X. Yang, W. Dong, M. Darrow, E. Kamangar, H. Lee, Y. Rivenson, A. Ozcan, “Deep learning-enabled virtual immunohistochemical (IHC) staining of label-free breast tissue sections,” 22nd Annual UC Systemwide Bioengineering Symposium, August 8-10, 2022, University of California, Santa Barbara, CA, USA
232. Y. Li, T. Liu, H. C. Koydemir, H. Wang, K. O’Riordan, B. Bai, Y. Haga, J. Kobashi, H. Tanaka, T. Tamaru, K. Yamaguchi, A. Ozcan, “Deep learning-based detection and classification of coliform bacterial colonies using a thin film transistor (TFT) image sensor,” 22nd Annual UC Systemwide Bioengineering Symposium, August 8-10, 2022, University of California, Santa Barbara, CA, USA
233. H. A. Joung, Y. Luo, S. Esparza, J. Rao, O. Garner, A. Ozcan, “Quantitative particle agglutination sensor enabled by deep learning and holography,” 22nd Annual UC Systemwide Bioengineering Symposium, August 8 - 10, 2022, University of California, Santa Barbara, CA, USA
234. J. Li, J. Garfinkel, X. Zhang, D. Wu, Y. Zhang, K. de Haan, H. Wang, T. Liu, B. Bai, Y. Rivenson, G. Rubinstein, P. O. Scumpia and A. Ozcan, “Deep learning-based non-invasive skin virtual histology using reflectance confocal microscopy,” 22nd Annual UC Systemwide Bioengineering Symposium, August 8 - 10, 2022, University of California, Santa Barbara, CA, USA
235. A. Ozcan, "Deep Learning-enabled Computational Microscopy and Sensing," 13th International Conference on Optics-Photonics Design and Fabrication (ODF), August 3-5, 2022, Sapporo, Japan (*Invited Talk*)
236. A. Ozcan, “Diffractive Optical Networks & Computational Imaging Without a Computer,” IEEE International Conference on Computational Photography (ICCP), Caltech, August 1-3, 2022, Pasadena, CA, USA (*Invited Talk*)
237. A. Ozcan, “Diffractive Optical Networks & Computational Imaging Without a Computer,” Optica Imaging and Applied Optics Congress, July 11-15, 2022, Vancouver, Canada (*Invited Talk*)
238. D. Mengu, M. Veli, Y. Rivenson, A. Ozcan, “Classification and Reconstruction of Spatially Overlapping Phase Objects Through Diffractive Networks,” Optica Imaging and Applied Optics Congress, July 11-15, 2022, Vancouver, Canada
239. O. Kulce, D. Mengu, Y. Rivenson, A. Ozcan, “All-Optical Computation of an Arbitrary Linear Transform Using Diffractive Networks,” Optica Imaging and Applied Optics Congress, July 11-15, 2022, Vancouver, Canada
240. A. Ozcan, “Diffractive Optical Networks & Computational Imaging Without a Computer,” Gordon Research Conference (GRC) – Image Science, June 5-10, 2022, Newry, ME, USA (*Invited Talk*)
241. Y. Zhang, K. de Haan, J. Li, Y. Rivenson, A. Ozcan, “Neural network-based multiplexed and microstructured virtual staining of unlabeled tissue,” OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
242. L. Huang, T. Liu, X. Yang, Y. Luo, Y. Rivenson, A. Ozcan, "Phase Recovery and Holographic Imaging using Recurrent Neural Networks (RNNs)," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
243. X. Yang, L. Huang, Y. Luo, Y. Wu, H. Wang, Y. Rivenson and A. Ozcan, “3D Virtual Refocusing of Point Spread Function (PSF) Engineered Images Using Cascaded Neural

- Networks” OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
244. Y. Luo, H. Joung, S. Esparza, J. Rao, O. Garner, A. Ozcan, "Quantitative particle agglutination assay using mobile holographic imaging and neural networks," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 245. Y. Luo, Y. Zhao, J. Li, E. Çetintaş, Y. Rivenson, M. Jarrahi, A. Ozcan, "Seeing through unknown, random diffusers using diffractive optical networks," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 246. E. Çetintaş, Y. Luo, C. Nguyen, Y. Guo, L. Li, Y. Zhu, A. Ozcan, "Characterization of exhaled e-cigarette aerosols in a vape shop using a field-portable holographic on-chip microscope," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 247. Y. Luo, D. Mengü, A. Ozcan, "Diffractive networks form cascable all-optical NAND gates," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 248. M.S.S. Rahman and A. Ozcan, "Diffractive Networks All-Optically Reconstruct Holograms," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 249. K. de Haan, Y. Zhang, J.E. Zuckerman, T. Liu, Y. Rivenson, W.D. Wallace and A. Ozcan, "Deep Learning-Based Transformation of H&E Stained Tissue Into Special Stains", OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 250. J. Li, J. Garfinkel, X. Zhang, D. Wu, Y. Zhang, K. D. Haan, H. Wang, T. Liu, B. Bai, Y. Rivenson, G. Rubinstein, P. O. Scumpia and A. Ozcan, "Biopsy-free Virtual Histology of Skin Using Reflectance Confocal Microscopy and Deep Learning," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 251. B. Bai, H. Wang, Y. Li, K. de Haan, F. Colonnese, Y. Wan, J. Zuo, N. Doan, X. Zhang, Y. Zhang, J. Li, W. Dong, M. Darrow, E. Kamangar, H. Lee, Y. Rivenson, A. Ozcan, "Deep Learning-based Virtual Immunohistochemical HER2 staining of Label-Free Breast Tissue," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 5-10, 2022, San Jose, CA USA
 252. Y. Zhang, T. Liu, M. Singh, E. Cetintas, Y. Luo, Y. Rivenson, K. Larin, A. Ozcan, "Deep learning-based image reconstruction in optical coherence tomography using undersampled spectral data," OSA/Optica Conference on Lasers and Electro-optics (CLEO), May 15-20, 2022, San Jose, CA USA
 253. A. Ozcan, "Deep Learning-enabled Computational Microscopy and Sensing," 16th International Conference on Laser Applications in Life Sciences (LALS), April 1-2, 2022, Nancy, France (**Keynote Talk**)
 254. A. Ozcan, "Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health," IEEE International Symposium on Biomedical Imaging (IEEE ISBI), March 29, 2022, Virtual (**Invited Talk**)
 255. A. Ozcan, "Deep Learning-enabled Optics", SPIE Photonics West, BIOS Hot Topics Plenary Session, January 22-27, 2022, San Francisco, CA (**Plenary Session**)
 256. M.S.S. Rahman, J. Li, D. Mengü, Y. Rivenson, and A. Ozcan, "Advancing diffractive network-based image classification by ensemble learning", SPIE Photonics West, AI and Optical Data Sciences III, January 22-27, 2022, San Francisco, CA, Paper # 12019-5
 257. M.S.S. Rahman and A. Ozcan, "Diffractive networks all-optically reconstruct holograms", SPIE Photonics West, Practical Holography XXXVI: Displays, Materials, and Applications, January 22-27, 2022, San Francisco, CA, Paper # 12026-11

258. X. Yang, L. Huang, Y. Luo, Y. Wu, H. Wang, Y. Rivenson and A. Ozcan, "Three-dimensional virtual refocusing of point-spread function engineered images using cascaded neural networks", SPIE Photonics West, AI and Optical Data Sciences III, January 22-27, 2022, San Francisco, CA, Paper # 12019-9
259. L. Huang, T. Liu, X. Yang, Y. Luo, Y. Rivenson and A. Ozcan, "Phase recovery and autofocusing in holographic imaging using recurrent neural networks (RNNs)", SPIE Photonics West, Quantitative Phase Imaging VIII, January 22-27, 2022, San Francisco, CA, Paper # 11970-28
260. Y. Luo, Y. Zhao, J. Li, E. Çetintas, Y. Rivenson, M. Jarrahi and A. Ozcan, "Seeing through unknown, random diffusers using all-optical diffractive networks", SPIE Photonics West, AI and Optical Data Sciences III, January 22-27, 2022, San Francisco, CA, Paper # 12019-38
261. K. de Haan, Y. Zhang, J.E. Zuckerman, T. Liu, Y. Rivenson, W.D. Wallace and A. Ozcan, "Transformation of H&E stained tissue into special stains using deep learning", SPIE Photonics West, Optical Biopsy XX: Toward Real-Time Spectroscopic Imaging and Diagnosis, January 22-27, 2022, San Francisco, CA, Paper # 11954-18
262. Y. Luo, H. Joung, S. Esparza, J. Rao, O. Garner and A. Ozcan, "Quantitative particle agglutination assay for point-of-care sensing using mobile holographic imaging and neural networks", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VIII, January 22-27, 2022, San Francisco, CA, Paper # 11950-10
263. Y. Zhang, T. Liu, M. Singh, E. Çetintas, Y. Luo, Y. Rivenson, K. Larin and A. Ozcan, "Deep learning-based image reconstruction in swept source optical coherence tomography using undersampled spectral data", SPIE Photonics West, Multimodal Biomedical Imaging XVII, January 22-27, 2022, San Francisco, CA, Paper # 11952-18
264. D. Mengu, Y. Rivenson, and A. Ozcan, "Diffractive optical networks with scale, shift, and rotation invariance", SPIE Photonics West, AI and Optical Data Sciences III, January 22-27, 2022, San Francisco, CA, Paper # 12019-37
265. O. Kulce, D. Mengu, Y. Rivenson, and A. Ozcan, "All-optical implementations of arbitrary linear transformations using diffractive networks", SPIE Photonics West, AI and Optical Data Sciences III, January 22-27, 2022, San Francisco, CA, Paper # 12019-39
266. A. Ozcan, "Diffractive optical neural networks", SPIE Photonics West, AI and Optical Data Sciences III, January 22-27, 2022, San Francisco, CA, Paper # 12019-33 (*Keynote Talk*)
267. D. Mengu, M. Veli, Y. Rivenson, and A. Ozcan, "Diffractive networks classify and reconstruct overlapping phase objects", SPIE Photonics West, Quantitative Phase Imaging VIII, January 22-27, 2022, San Francisco, CA, Paper # 11970-15
268. Y. Luo, Y. Wu, L. Li, Y. Guo, E. Çetintas, Y. Zhu and A. Ozcan, "Volatility measurement of particulate matter using deep learning-based holographic microscopy", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VIII, January 22-27, 2022, San Francisco, CA, Paper # 11950-27
269. V. Koutnik, D.J. Leonard, J. Glassman, A. Novoselov, H.C. Koydemir, D. Tseng, A. Ozcan, R. Bertel, S. Ravi, S.K Mohanty, "What Controls the Distribution and Mobility of Microplastics in Stormwater Treatment Systems in Urban Areas?" American Geophysical Union (AGU) Fall Meeting, December 13-17, 2021, New Orleans, LA, USA
270. Y. Luo, Y. Wu, L. Li, Y. Guo, E. Çetintaş, Y. Zhu, and A. Ozcan, "Dynamic imaging and characterization of volatile aerosols using deep learning-based holographic microscopy", OSA Frontiers in Optics (FiO) Conference, November 1-4, 2021, Virtual Conference
271. O. Kulce, D. Mengu, Y. Rivenson, and A. Ozcan, "Information Processing Capacity of Diffractive Optical Processors", OSA Frontiers in Optics (FiO) Conference, November 1-4, 2021, Virtual Conference

272. D. Mengü, Y. Rivenson, and A. Ozcan, "Design of Shift-, Scale- and Rotation Invariant Diffractive Optical Networks", OSA Frontiers in Optics (FiO) Conference, November 1-4, 2021, Virtual Conference
273. A. Ozcan, "Deep Learning-enabled Computational Microscopy and Sensing," OSA Frontiers in Optics (FiO) Conference, November 1-4, 2021, Virtual Conference (**Invited Talk**)
274. C. Isil, K. de Haan, Z. Göröcs, H. C. Koydemir, S. Peterman, D. Baum, F. Song, T. Skandakumar, E. Gumustekin, and A. Ozcan, "Label-free imaging flow cytometry for phenotypic analysis of microalgae populations using deep learning," OSA Frontiers in Optics (FiO) Conference, November 1-4, 2021, Virtual Conference
275. A. Ozcan, "Diffractive Optical Networks," IEEE Photonics Conference, Virtual, October 18-21, 2021 (**Invited Talk**)
276. A. Ozcan, "Toward intelligent microscopes: deep learning's potential for biomedical imaging applications," Annual Conference of the Society of Biomolecular Imaging and Informatics (SBI²), Virtual, October 4-6, 2021 (**Keynote Talk**)
277. A. Ozcan, "Deep Learning-enabled Computational Water Sensors," IEEE International Workshop on Metrology for the Sea (MetroSea'21), Italy, October 4-6, 2021 (**Plenary Talk**)
278. A. Ozcan, "Diffractive Optical Neural Networks," Chinese Society of Optical Engineering (CSOE) International Computational Imaging Conference, Hangzhou, China, September 24-26, 2021 (**Plenary Talk**)
279. A. Ozcan, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Institute of Physics (IOP), Machine Learning in Biological Physics Meeting, September 6, 2021, (**Invited Talk**)
280. L. Huang, H. Chen, Y. Rivenson, A. Ozcan, "Convolutional recurrent neural network-enabled volumetric fluorescence imaging," SPIE Optics and Photonics, August 1-5, 2021, Virtual Conference, Paper # 11804-35
281. X. Yang, L. Huang, Y. Luo, Y. Wu, H. Wang, Y. Rivenson, and A. Ozcan, "Virtual refocusing of fluorescence images using an engineered point-spread function and deep learning", SPIE Optics and Photonics Conference, August 1-5, 2021, Virtual Conference, Paper # 11804-74
282. M. Veli, D. Mengü, N.T. Yardimci, Y. Luo, J. Li, Y. Rivenson, M. Jarrahi, and A. Ozcan, "Pulse shaping using diffractive optical networks designed by deep learning," SPIE Optics and Photonics Conference, August 1-5, 2021, Virtual Conference, Paper # 11804-66
283. H. Wang, H.C. Koydemir, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E.C. Yilmaz, E. Gumustekin, Y. Rivenson, and A. Ozcan, "Early identification of live bacteria in water samples using time-lapse holographic imaging and deep learning", SPIE Optics and Photonics Conference, August 1-5, 2021, Virtual Conference, Paper # 11804-64
284. A. Ozcan, " Terahertz applications of diffractive optical networks," SPIE Optics and Photonics, August 1-5, 2021, Virtual Conference, Paper # 11827-2 (**Invited Talk**)
285. M.S.S. Rahman, J. Li, D. Mengü, Y. Rivenson, A. Ozcan, "Ensemble learning boosts the inference accuracy of diffractive neural networks," SPIE Optics and Photonics, August 1-5, 2021, Virtual Conference, Paper # 11804-12
286. J. Li, D. Mengü, N. T. Yardimci, Y. Luo, X. Li, M. Veli, Y. Rivenson, M. Jarrahi, A. Ozcan, "Diffractive network-based single-pixel machine vision," SPIE Optics and Photonics, Emerging Topics in Artificial Intelligence (ETAI), August 1 - 5, 2021, Virtual Conference, Paper # 11804-8
287. O. Kulce, D. Mengü, Y. Rivenson, A. Ozcan, "All-optical information processing capacity of diffractive networks," SPIE Optics and Photonics, August 1-5, 2021, Virtual Conference, Paper # 11804-09

288. D. Mengü, Y. Rivenson, A. Ozcan, "Design of Scale-, Shift- and Rotation-Invariant Diffractive Optical Networks," SPIE Optics and Photonics, August 1-5, 2021, Virtual Conference, Paper # 11804-14
289. A. Ozcan, "Diffractive Optical Networks," OSA Imaging and Applied Optics Congress, July 19-23, 2021, Virtual Conference (*Keynote Talk*)
290. M.S.S. Rahman, J. Li, D. Mengü, Y. Rivenson, A. Ozcan, "Ensemble Learning of Diffractive Optical Neural Networks," OSA Imaging and Applied Optics Congress, July 19-23, 2021, Virtual Conference
291. Z. Göröcs, D. Baum, F. Song, K. de Haan, H.C. Koydemir, Y. Qiu, Z. Cai, T. Skandakumar, S. Peterman, M. Tamamitsu, A. Ozcan, "Deep Learning-enabled Holographic Imaging Flow-Cytometry for Label-Free Detection of Giardia Lamblia in Water Samples," OSA Imaging and Applied Optics Congress, July 19-23, 2021, Virtual Conference
292. A. Ozcan, "Deep Learning-enabled Computational Microscopy," Royal Microscopical Society (RMS) Microscience Microscopy Congress (MMC), July 5-9, 2021, (*Plenary Talk*)
293. A. Ozcan, "Diffractive Optical Networks Designed by Deep Learning," The 5th International Conference on Optoelectronic and Microelectronic Technology and Application (OMTA 2021), Chinese Society for Optical Engineering (CSOE), May 22-24, 2021, Virtual Conference (*Plenary Talk*)
294. J. Li, D. Mengü, N. T. Yardimci, Y. Luo, X. Li, M. Veli, Y. Rivenson, M. Jarrahi, A. Ozcan, "Single-Pixel Machine Vision Using Spectral Encoding Through Diffractive Optical Networks," OSA Conference on Lasers and Electro-optics (CLEO), May 9-14, 2021, Virtual Conference
295. A. Goncharov, C. Brown, Z. Ballard, M. Fordham, A. Clemens, Y. Qiu, Y. Rivenson, A. Ozcan, "Deep learning-based spectral reconstruction on a chip using a scalable plasmonic encoder," OSA Conference on Lasers and Electro-optics (CLEO), May 9-14, 2021, Virtual Conference
296. D. Mengü, Y. Zhao, N.T. Yardimci, Y. Rivenson, M. Jarrahi, A. Ozcan, "Misalignment Tolerant Diffractive Optical Networks," OSA Conference on Lasers and Electro-optics (CLEO), May 09-14, 2021, Virtual Conference
297. T. Liu, K. Haan, B. Bai, Y. Rivenson, Y. Luo, H. Wang, D. Karalli, H. Fu, Y. Zhang, J. FitzGerald, and A. Ozcan, "Deep-learning-enabled Holographic Polarization Microscopy," OSA Conference on Lasers and Electro-optics (CLEO), May 09-14, 2021, Virtual Conference
298. H. Wang, H.C. Koydemir, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E.C. Yilmaz, E. Gumustekin, Y. Rivenson, A. Ozcan. "Deep Learning-enabled Coherent Imaging Achieves Early Detection and Classification of Bacteria in Water Samples," OSA Conference on Lasers and Electro-optics (CLEO), May 9-14, 2021, Virtual Conference
299. Z. Ballard, S. Bazargan, D. Jung, S. Sathianathan, A. Clemens, D. Shir, S. Al-Hashimi, and A. Ozcan, "Contact lens-based sensing of lysozyme in tear fluid using a mobile well-plate reader," OSA Conference on Lasers and Electro-optics (CLEO), May 9-14, 2021, Virtual Conference
300. L. Huang, Y. Luo, Y. Rivenson, A. Ozcan, "Neural Network-Based Single-Shot Autofocusing of Microscopy Images," OSA Conference on Lasers and Electro-optics (CLEO), May 09-14, 2021, Virtual Conference
301. L. Huang, H. Chen, Y. Luo, Y. Rivenson, A. Ozcan, "Volumetric Fluorescence Microscopy Using Convolutional Recurrent Neural Networks," OSA Conference on Lasers and Electro-optics (CLEO), May 09-14, 2021, Virtual Conference
302. M. Veli, D. Mengü, N. T. Yardimci, Y. Luo, J. Li, Y. Rivenson, M. Jarrahi, and A. Ozcan, "Terahertz Pulse Shaping Using Diffractive Optical Networks", OSA Conference on Lasers and Electro-optics (CLEO), May 09-14, 2021, Virtual Conference
303. D.J. Leonard, H. Ceylan Koydemir, V. Smirnova, D. Tseng, A. Ozcan, S. Mohanty, "Rapid detection of microplastics using mobile phone technology". ACS Spring 2021, Division of Environmental Chemistry (ENVR), April 5-16, 2021, Virtual Conference

304. A. Ozcan, "Deep learning-enabled computational microscopy," Endocrine Society Annual Meeting (ENDO 2021), Symposium on Thinking Microscopes - Artificial Intelligence in Imaging Molecules, Cells and Tumors, March 20-23, 2021, Virtual Conference (*Invited Talk*)
305. T. Liu, K. Haan, B. Bai, Y. Rivenson, Y. Luo, H. Wang, D. Karalli, H. Fu, Y. Zhang, J. FitzGerald, and A. Ozcan, "Deep learning enabled holographic polarization microscopy," American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
306. D. Mengü, Y. Zhao, N. T. Yardimci, Y. Rivenson, M. Jarrahi, and A. Ozcan, "Misalignment Insensitive Diffractive Optical Networks," American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
307. M. Veli, D. Mengü, N.T. Yardimci, Y. Luo, J. Li, Y. Rivenson, M. Jarrahi, and A. Ozcan, "Terahertz Pulse Engineering Using Diffractive Optical Networks," American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
308. Z. Göröcs, D. Baum, F. Song, K. DeHaan, H.C. Koydemir, Y. Qiu, Z. Cai, T. Skandakumar, S. Peterman, M. Tamamitsu, and A. Ozcan, "High throughput detection and quantification of Giardia lamblia cysts using holographic imaging flow-cytometry and deep learning," American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
309. J. Li, D. Mengü, N. T. Yardimci, Y. Luo, X. Li, M. Veli, Y. Rivenson, M. Jarrahi, and A. Ozcan, "Trainable Diffractive Surfaces for Spectral Encoding of Spatial Information," American Physical Society, APS March Meeting, March 15–19, 2021, Virtual Conference
310. M.S.S. Rahman, J. Li, D. Mengü, Y. Rivenson, A. Ozcan, "Ensemble learning enhances the inference accuracy of diffractive deep neural networks," American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
311. H. Wang, H.C. Koydemir, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E.C. Yilmaz, E. Gumustekin, Y. Rivenson, and A. Ozcan, "Early detection and classification of live bacteria using holography and deep learning," American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
312. M. Veli, D. Mengü, N. T. Yardimci, Y. Luo, J. Li, Y. Rivenson, M. Jarrahi, and A. Ozcan, "Terahertz pulse shaping using diffractive networks", SPIE Photonics West, AI and Optical Data Sciences II, March 6-11, 2021, Virtual Conference, Paper # 11703-49
313. Z. Göröcs, D. Baum, F. Song, K. De Haan, H.C. Koydemir, Y. Qiu, Z. Cai, T. Skandakumar, S. Peterman, M. Tamamitsu, and A. Ozcan, "Label-free detection of Giardia lamblia cysts in water samples using a field-portable imaging flow cytometer and deep learning", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VII, March 6 - 11, 2021, Virtual Conference, Paper # 116320G
314. K. De Haan, Y. Zhang, Y. Rivenson, J. Li, and A. Ozcan, "Deep learning-based multiplexed virtual staining of unlabeled tissue for micro-structured stain blending", SPIE Photonics West, Label-free Biomedical Imaging and Sensing (LBIS), March 6-11, 2021, Virtual Conference, Paper # 116550A
315. C. Brown, D. Tseng, P. M. K. Larkin, S. Realegeno, L. Mortimer, A. Subramonian, D. Di Carlo, O. Garner, and A. Ozcan, "A cost-effective system for automated early antimicrobial susceptibility testing using deep learning," SPIE Photonics West, Photonic Diagnosis, Monitoring, Prevention, and Treatment of Infections and Inflammatory Diseases; March 6 - 11, 2021, Virtual Conference, Paper # 11626-16
316. D. Mengü, Y. Zhao, N.T. Yardimci, Y. Rivenson, M. Jarrahi and A. Ozcan, "Misalignment tolerant diffractive optical networks", AI and Optical Data Sciences II, SPIE Photonics West, March 6 - 11, 2021, Virtual Conference, Paper # 11703-51
317. A. Ozcan, "Diffractive optical neural networks," SPIE Photonics West, AI and Optical Data Sciences II, March 6-11, 2021, Virtual Conference (*Invited Talk*)

318. O. Kulce, D. Mengu, Y. Rivenson, A. Ozcan, "Information Processing Capacity of Diffractive Surfaces," SPIE Photonics West, AI and Optical Data Sciences II, March 6 - 11, 2021, Virtual Conference, Paper # 11703-10
319. A. Goncharov, C. Brown, Z. Ballard, M. Fordham, A. Clemens, Y. Qui, Y. Rivenson, and A. Ozcan, "Deep-learning-based compact spectrum analyzer on a chip", SPIE Photonics West, AI and Optical Data Sciences II, March 6 - 11, 2021, Virtual Conference, Paper # 11703-50
320. C. Isil, K. De Haan, H. Koydemir, Z. Göröcs, D. Baum, F. Song, T. Skandakumar, E. Gumustekin, and A. Ozcan, "Label-free analysis of micro-algae populations using a high-throughput holographic imaging flow cytometer and deep learning," SPIE Photonics West, Label-free Biomedical Imaging and Sensing, March 6-11, 2021, Virtual Conference, Paper # 116550B
321. Y. Luo, D. Mengu, N. Yardimci, Y. Rivenson, M. Veli, M. Jarrahi, and A. Ozcan, "Broadband diffractive optical networks", SPIE Photonics West, SPIE Photonics West, AI and Optical Data Sciences II, March 6 - 11, 2021, Virtual Conference, Paper # 11703-34
322. T. Liu, Y. Zhang, M. Ouyang, A. Ray, J. Kong, B. Bai, D. Kim, A. Guziak, Y. Luo, A. Feizi, K. Tsai, Z. Duan, X. Liu, D. Kim, C. Cheung, S. Yalcin, H. Koydemir, O. Garner, D. Di Carlo, and A. Ozcan, "Deep learning-based computational cytometer using magnetically-modulated coherent imaging," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VII, March 6 - 11, 2021, Virtual Conference, Paper # 11632-16
323. K. De Haan, H. Ceylan Koydemir, Y. Rivenson, D. Tseng, E. Van Dyne, L. Bakic, D. Karınca, K. Liang, M. Ilango, E. Gumustekin, A. Ozcan, "Screening of sickle cell disease using a smartphone-based microscope and deep-learning," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VII, March 6-11, 2021 Virtual Conference, Paper # 11632-9
324. J. Li, D. Mengu, N. T. Yardimci, Y. Luo, X. Li, M. Veli, Y. Rivenson, M. Jarrahi, A. Ozcan, "Spectrally encoded single-pixel machine vision using diffractive networks," SPIE Photonics West, AI and Optical Data Sciences II, March 6 - 11, 2021, Virtual Conference, Paper # 11703-52
325. L. Huang, Y. Luo, Y. Rivenson, A. Ozcan, "Deep-learning-based Volumetric Imaging in Fluorescence Microscopy," SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XXVIII, March 6 - 11, 2021, Virtual Conference, Paper # 11649-2.
326. L. Huang, Y. Luo, Y. Rivenson, A. Ozcan, "Deep learning-based single-shot autofocusing of microscopy images," SPIE Photonics West, Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XIX, March 6 - 11, 2021, Virtual Conference, Paper # 11647-24
327. T. Liu, K. Haan, B. Bai, Y. Rivenson, Y. Luo, H. Wang, D. Karalli, H. Fu, Y. Zhang, J. FitzGerald, and A. Ozcan, "Holographic polarization microscopy using deep learning," SPIE Photonics West, Quantitative Phase Imaging VII, March 6 - 11, 2021, Virtual Conference, Paper # 11653-22
328. A. Ozcan, "Deep learning-enabled computational microscopy and sensing," SPIE Photonics West, Integrated Sensors for Biological and Neural Sensing, March 6-11, 2021, Virtual Conference (*Invited Talk*)
329. A. Ozcan, "Deep Learning-enabled Computational Imaging and Sensing," Biosensors for Pandemics Conference, February 3, 2021, Virtual Conference (*Plenary Talk*)
330. A. Ozcan, "Diffractive optical neural networks designed by deep learning," SPIE Advanced Photonics Colloquium, January 12-14, 2021, Virtual Conference
331. A. Ozcan, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," International Symposium on Imaging, Sensing and Optical Memory,

- organized by The Optical Society of Japan, November 29 – December 2, 2020, Virtual Conference (*Invited Talk*)
332. A. Ozcan, "Diffractive optical neural networks designed by deep learning," MRS Spring Meeting, November 27-December 4, 2020, Virtual Conference (*Keynote Talk*)
 333. Y. Luo, D. Mengu, N. Yardimci, Y. Rivenson, M. Veli, M. Jarrahi, and A. Ozcan, "Broadband Diffractive Neural Networks," MRS Spring Meeting, November 27-December 4, 2020, Virtual Conference
 334. K. de Haan and A. Ozcan, "Deep Learning-enabled Computational Microscopy and Sensing," The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) – SciX Conference, October 12-15, 2020, Virtual Conference (*Invited Talk*)
 335. A. Ozcan, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," AIChE Bioengineering & Translational Medicine Conference, September 28 – October 1, 2020, Virtual Conference (*Keynote Talk*)
 336. A. Ozcan, "Deep Learning-enabled Computational Microscopy and Sensing," IEEE Photonics Conference, September 28 – October 1, 2020, Virtual Conference (*Invited Talk*)
 337. H. Joung, Z. Ballard, J. Wu, D. Tseng, H. Teshome, L. Zhang, E. Horn, P. Arnaboldi, R. Dattwyler, O.B. Garner, D. Di Carlo, and A. Ozcan, "Point-of-Care Serodiagnostic Test for Early-Stage Lyme Disease Using a Multiplexed Paper-Based Immunoassay and Machine Learning," Cohen Lyme and Tickborne Disease Initiative, LymeMIND Consortium Virtual Conference, October 9, 2020
 338. Y. Luo, D. Mengu, N.T. Yardimci, Y. Rivenson, M. Veli, M. Jarrahi, A. Ozcan, "Optical system design using broadband diffractive neural networks," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-24
 339. T. Liu, Z. Wei, Y. Rivenson, K. de Haan, Y. Zhang, Y. Wu, A. Ozcan, "Deep learning-based holographic reconstruction for color imaging of pathology slides," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-11
 340. K. de Haan, Y. Zhang, Y. Rivenson, J. Li, A. Delis, A. Ozcan, "Multiplexed and micro-structured virtual staining of unlabeled tissue using deep learning," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-10
 341. K. de Haan, Z.S. Ballard, Y. Rivenson, Y. Wu, A. Ozcan, "Deep learning-enabled resolution enhancement of scanning electron microscopy images," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-22
 342. J. Li, D. Mengu, Y. Luo, Y. Rivenson, A. Ozcan, "Class-specific differential detection improves the inference accuracy of diffractive optical neural networks," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-42
 343. T. Liu, Y. Zhang, M. Ouyang, A. Ray, J. Kong, B. Bai, D. Kim, A. Guziak, Y. Luo, A. Feizi, K. Tsai, Z. Duan, X. Liu, D. Kim, C. Cheung, S. Yalcin, H.C. Koydemir, O.B. Garner, D. Di Carlo, A. Ozcan, "Deep learning-based cytometer using magnetically modulated coherent imaging," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-49
 344. Y. Luo, Y. Wu, G. Chaudhari, Y. Rivenson, K. De Haan, A. Calis, A. Ozcan, "3D reconstruction of a hologram with brightfield contrast using deep learning," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-41
 345. D. Mengu, Y. Luo, Y. Rivenson, A. Ozcan, "Diffractive optical neural networks as a trainable front-end for electronic neural networks," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-32
 346. T. Liu, K. de Haan, Y. Rivenson, Z. Wei, X. Zeng, Y. Zhang, A. Ozcan, "Resolution enhancement in coherent imaging systems using a deep neural network," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-20

347. K. de Haan, H.C. Koydemir, Y. Rivenson, D. Tseng, E. Van Dyne, L. Bakic, D. Karınca, K. Liang, M. Ilango, E. Gumustekin, A. Ozcan, "Sickle cell disease screening from thin blood smears using a smartphone-based microscope and deep learning," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-54
348. Y. Rivenson, T. Liu, Z. Wei, K. de Haan, Y. Zhang, A. Ozcan, "Virtual staining of unlabeled quantitative phase images using deep learning," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-51
349. Z.S. Ballard, H. Joung, J. Wu, D. Tseng, H. Teshome, L. Zhao, E.J. Horn, R. Dattwyler, P.M. Arnaboldi, O. Garner, D. DiCarlo, A. Ozcan, "Deep learning-based point-of-care diagnostic test for Lyme disease," SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-50
350. D. Mengu, A. Ozcan, "Diffractive optical neural networks designed by deep learning," IEEE Research and Applications of Photonics in Defense (RAPID) Conference, August 10-12, 2020, Virtual Conference (*Invited Talk*)
351. A. Ozcan, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," 22nd Photonics North Conference, May 26-28, 2020, Virtual Conference (*Keynote Talk*)
352. Z. Ballard, H.-A. Joung, A. Goncharov, J. Liang, K. Nugroho, D. Di Carlo, O. Garner, A. Ozcan, "Computational Sensing with a Multiplexed Vertical Flow Assay for High-Sensitivity C-Reactive Protein Quantification," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
353. D. Mengu, Y. Luo, Y. Rivenson, A. Ozcan, "Integration of Diffractive Optical Neural Networks with Electronic Neural Networks" OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
354. C. Brown, D. Tseng, P. Kulling, S. Realgeno, L. Mortimer, D. Di Carlo, O. Garner, A. Ozcan, "An Automated and Cost-Effective System for Early Antimicrobial Susceptibility Testing," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
355. Y. Wu, Y. Rivenson, H. Wang, Y. Luo, E. Ben-David, LA. Bentolila, C. Pritz, A. Ozcan, "Deep-Z: 3D Virtual Refocusing of Fluorescence Images Using Deep Learning," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
356. A. Ozcan, "Diffractive optical neural networks designed by deep learning," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference (*Invited Talk*)
357. Y. Luo, D. Mengu, N. Yardimci, Y. Rivenson, M. Veli, M. Jarrahi, A. Ozcan, "Broadband Diffractive Neural Networks," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
358. J. Li, D. Mengu, Y. Luo, Y. Rivenson, A. Ozcan, "Improving the Inference Accuracy of Diffractive Optical Neural Networks Using Class-specific Differential Detection," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
359. K. de Haan, H. Ceylan Koydemir, Y. Rivenson, D. Tseng, E. Van Dyne, L. Bakic, D. Karınca, K. Liang, M. Ilango, E. Gumustekin, A. Ozcan, "Automated Screening of Sickle Cells Using a Smartphone-Based Microscope and Deep Learning," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
360. K. de Haan, Z. S. Ballard, Y. Rivenson, Y. Wu, A. Ozcan, "Resolution Enhancement in Scanning Electron Microscopy using Deep Learning," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
361. T. Liu, Z. Wei, Y. Rivenson, K. Haan, Y. Zhang, Y. Wu, A. Ozcan, "Color Holographic Microscopy Using a Deep Neural Network," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference

362. A. Ozcan, "Computational Microscopy and Sensing," Biosensors for Pandemics Conference, May 6, 2020, Virtual Conference (**Plenary Talk**)
363. H.A. Joung, Z. Ballard, J. Wu, D. Tseng, H. Teshome, L. Zhang, R. Dattwyler, P. Arnaboldi, O. Garner, D. Di Carlo, A. Ozcan, "Point-of-care test for early-stage Lyme disease using a multiplexed paper-based assay and machine learning," OSA Biophotonics Congress: Biomedical Optics, April 20-23, 2020, Fort Lauderdale, FL USA
364. Y. Wu, Y. Rivenson, H. Wang, Y. Luo, E. Ben-David, L. Bentolila, C. Pritz, A. Ozcan, "Deep Learning-based Virtual Refocusing of Fluorescence Microscopy Images for Neuron Imaging in 3D", OSA Biophotonics Congress: Biomedical Optics, April 20-23, 2020, Fort Lauderdale, FL, USA
365. B. Bai, H. Wang, T. Liu, Y. Rivenson, J. FitzGerald, A. Ozcan, "Single-shot Computational Polarized Light Microscopy for Imaging of Pathological Crystals," OSA Biophotonics Congress: Biomedical Optics (BioMed), April 20-23, 2020, Fort Lauderdale, FL, USA
366. T. Liu, Y. Zhang, M. Ouyang, A. Ray, J. Kong, B. Bai, D. Kim, A. Guziak, Y. Luo, A. Feizi, K. Tsai, Z. Duan, X. Liu, D. Kim, C. Cheung, S. Yalcin, H. Ceylan Koydemir, O. B. Garner, D. Di Carlo, A. Ozcan, "Deep Learning-enabled Computational Cytometer Using Magnetically-modulated Coherent Imaging," 2020 OSA Biophotonics Congress: Biomedical Optics (BioMed 2020), April 20-23, 2020, Fort Lauderdale, FL USA
367. H. Wang, Y. Rivenson, Y. Jin, Z. Wei, R. Gao, H. Gunaydin, L. Bentolila, C. Kural, A. Ozcan, "Deep Learning-Based Super-Resolution and Image Transformation Into Structured Illumination Microscopy," OSA Biophotonics Congress: Biomedical Optics (BioMed 2020), April 20-23, 2020, Fort Lauderdale, FL, USA
368. K. de Haan, Y. Rivenson, Z. Wei, H. Wang, T. Liu, W. D. Wallace, A. Ozcan, "Deep Learning-Based Virtual Staining of Unlabeled Tissue Samples," OSA Biophotonics Congress: Biomedical Optics (BioMed), April 20-23, 2020, Fort Lauderdale, FL USA
369. A. Ozcan, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," IEEE Aerospace Conference, March 7-14, 2020, Big Sky, Montana, USA (**Plenary Talk**)
370. Y. Wu, Y. Rivenson, H. Wang, Y. Luo, E. Ben-David, L.A. Bentolila, C. Pritz, A. Ozcan, "Deep-learning based three-dimensional virtual refocusing of fluorescence microscopy images," SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XXVII, 1 February – 6 February 2020, San Francisco, CA, Paper # 11245-22
371. H.-A. Joung, Z. S. Ballard, D. K. Tseng, O. Garner, D. D. Carlo, A. Ozcan, "Paper-based vertical flow immunoassay and mobile reader for multiplexed point-of-care testing" SPIE Photonics West, Optics for Low Resource Settings, 1 February – 6 February 2020, San Francisco, CA, Paper # 11230-6
372. H-A. Joung, Z.S. Ballard, J. Wu, D.K. Tseng, H. Teshome, L. Zhang, R.J. Dattwyler, P.M. Arnaboldi, O. Garner, D. Di Carlo, A. Ozcan, "Point-of-care Lyme serodiagnostic using a multiplexed vertical flow assay and deep learning" SPIE Photonics West, Advanced Biomedical and Clinical Diagnostic and Surgical Guidance, 1 February – 6 February 2020, San Francisco, CA, USA Paper # 11229-16
373. A. Ozcan, "Deep learning-enabled computational microscopy and sensing," SPIE Photonics West, Frontiers in Biological Detection: From Nanosensors to Systems, 1 February – 6 February 2020, San Francisco, CA, USA (**Invited Talk**)
374. A. Ozcan, "A Tale of Three Companies: Commercialization of Computational Imaging and Sensing Technologies," SPIE Photonics West, Advanced Biomedical and Clinical Diagnostic and Surgical Guidance, 1 February – 6 February 2020, San Francisco, CA, USA (**Invited Talk**)
375. A. Ozcan, "Deep learning-enabled holography," SPIE Photonics West, Label-free Biomedical Imaging and Sensing, 1 February – 6 February 2020, San Francisco, CA, USA (**Keynote Talk**)

376. J. Li, D. Mengu, Y. Luo, Y. Rivenson, A. Ozcan, "Class-specific differential detection in diffractive optical neural networks," SPIE Photonics West, AI and Optical Data Sciences, 1 February – 6 February 2020, San Francisco, CA, USA Paper # 11299-26
377. G. Acuna, P. Tinnefeld, Q. Wei, A. Ozcan, M. Pilo-Pais, K. Trofymchuk, V. Glembockyte, S. Ochmann, M. Lakatos, "DNA origami nanotools for biosensing," SPIE Photonics West, Colloidal Nanoparticles for Biomedical Applications, 1 February – 6 February 2020, San Francisco, CA, USA Paper # 11299-26
378. T. Liu, Z. Wei, Y. Rivenson, K. Haan, Y. Zhang, Y. Wu, A. Ozcan, "Deep learning enables color holographic microscopy of pathology slides from a single hologram," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VI, 1 February – 6 February 2020, San Francisco, CA, Paper # 11230-30
379. S. Tok, K. de Haan, D. K. Tseng, C.F. Usanmaz, H.C. Koydemir, A. Ozcan, "Early detection of E. coli and total coliform using an automated fiber optics-based sensing system," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VI, 1 February – 6 February 2020, San Francisco, CA, Paper # 11230-26
380. B. Bai, H. Wang, T. Liu, Y. Rivenson, J. Fitzgerald, A. Ozcan, "Pathological crystal imaging using computational polarized light microscopy," SPIE Photonics West, Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XVIII, 1 February – 6 February 2020, San Francisco, CA, Paper # 11243-15
381. H. Wang, H. C. Koydemir, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E. C. Yilmaz, E. Gumustekin, Y. Luo, Y. Rivenson, A. Ozcan, "Deep learning enables high-throughput early detection and classification of bacterial colonies using time-lapse coherent imaging," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VI, 1 February – 6 February 2020, San Francisco, CA, Paper # 11230-13
382. D. Mengu, Y. Luo, Y. Rivenson, J. Li and A. Ozcan, "Integration of diffractive optical neural networks with electronic neural networks", SPIE Photonics West, Smart Photonic and Optoelectronic Integrated Circuits XXII, 1 February – 6 February 2020, San Francisco, CA, Paper # 11284-67
383. K. de Haan, T. Liu, Y. Rivenson, Z. Wei, X. Zeng, Y. Zhang, and A. Ozcan, "Enhancing resolution in coherent microscopy using deep learning," SPIE Photonics West, Quantitative Phase Imaging VI, 1 February – 6 February 2020, San Francisco, CA, Paper # 11249-3
384. Y. Wu, Y. Luo, G. Chaudhari, Y. Rivenson, A. Calis, K. de Haan, A. Ozcan, "Cross-Modality Deep Learning Brings Bright-Field Image Contrast to Digital Holographic Microscopy," SPIE Photonics West, Quantitative Phase Imaging VI, 1 February – 6 February 2020, San Francisco, CA, Paper # 11249-15
385. Y. Wu, A. Ray, Q. Wei, A. Feizi, X. Tong, E. Chen, Y. Luo, A. Ozcan, "Deep learning-based sensing of viruses using a particle aggregation assay," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VI, 1 February – 6 February 2020, San Francisco, CA, Paper # 11230-29
386. H. Ceylan Koydemir, J. T. Coulibaly, D. Tseng, I. I. Bogoch, A. Ozcan, "Field-testing of a mobile microscope for label-free detection of Schistosoma eggs in urine and stool samples", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA
387. Z.S. Ballard, S. Bazargan, D. Jung, S. Sathianathan, A. Clemens, D. Shir, S. Al-Hashimi, A. Ozcan, "Contact lens-based lysozyme detection in tear using a mobile and cost-effective sensor", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA
388. A. Ray, S. Esparza, D. Wu, M. Hanudel, H-A. Joung, B. Gales, I. Salusky, A. Ozcan, "Smartphone-based measurement of serum phosphate levels for patients with kidney disease,"

- SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA
389. H. Ceylan Koydemir, S. Rajpal, E. Gumustekin, D. Karınca, K. Liang, Z. Gorocs, D. Tseng, A. Ozcan, "Turbidity analysis using a smartphone-based reader", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA
 390. Z.S. Ballard, H-A. Joung, A. Goncharov, J. Liang, K. Nugroho, D. Di Carlo, O. Garner, A. Ozcan, "A computational paper-based point-of-care assay for high-sensitivity c-reactive protein quantification", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA
 391. V. Müller, J.M. Sousa, H. Ceylan Koydemir, M. Veli, D. Tseng, L. Cerqueira, A. Ozcan, N. F. Azevedo, F. Westerlund, "Mobile-phone microscopy-based identification of pathogenic bacteria in complex samples", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA
 392. H.A. Joung, Z. Ballard, J. We, D. K. Tseng, H. Teshome, L. Zhang, R. J. Dattwyler, P. M. Arnaboldi, O. Garner, D. Di Carlo, A. Ozcan, "Point-of-care Lyme serodiagnostic test using a multiplexed vertical flow assay and machine learning" 4th Annual Lyme Disease in the Era of Precision Medicine Conference, October 19, 2019, New York, NY, USA
 393. A. Ozcan, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," The Annual Meeting of The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) – SciX Conference, October 13-18, 2019, Palm Springs, California (*Invited Talk*)
 394. H. Wang, Y. Rivenson, Y. Jin, Z. Wei, R. Gao, H. Günaydın, L.A. Bentolila, C. Kural, and A. Ozcan, "Cross-modality Super-resolution in Fluorescence Microscopy Enabled by Deep Neural Networks," BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, PA, USA
 395. J. Snow, H. Ceylan Koydemir, D. Tseng, D. Karınca, K. Liang, and A. Ozcan, "Rapid and automated detection of Nosema infection in honey bees using a mobile microscope," BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, Pennsylvania, USA
 396. Y. Rivenson, H. Wang, Z. Wei, K. de Haan, W.D. Wallace, and A. Ozcan, "Virtual Histological Staining of Unlabeled Tissue via Deep Learning," BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, Pennsylvania, USA
 397. H. Ceylan Koydemir, S. Rajpal, E. Gumustekin, D. Karınca, K. Liang, Z. Gorocs, D. Tseng, and A. Ozcan, "Water quality analysis using a smartphone-based turbidity reader," BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, Pennsylvania, USA
 398. H. Joung, Z.S. Ballard, J. Wu, D.K. Tseng, H. Teshome, L. Zhang, O.B. Garner, D.D. Carlo, and A. Ozcan, "Point-of-care testing of Lyme disease using a multiplexed-vertical flow assay," BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, PA, USA
 399. Y. Wu, A. Ray, Q. Wei, A. Feizi, X. Tong, E. Chen, Y. Luo, A. Ozcan, "Rapid Analysis of Particle-Aggregation Assays Using On-Chip Holography and Deep Learning," BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, PA, USA
 400. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, H. Ceylan Koydemir, Y. Zhang, H. Wang, Z. Göröcs, A. Ozcan, "Deep-Learning Based Label-Free Bio-Aerosol Sensing," BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, PA, USA
 401. A. Ray, S. Esparza, D. Wu, M. Hanudel, H. Joung, B. Gales, D. Tseng, I. Salusky, and A. Ozcan, "Cost-Effective Mobile Sensor For Measurement Of Serum Phosphate Concentration,"

- BMES (Biomedical Engineering Society) Annual Meeting, October 16-19, 2019, Philadelphia, Pennsylvania, USA
402. Z. Gorocs and A. Ozcan, "Deep Learning-Enabled Computational Microscopy and Sensing," IEEE Photonics Conference, September 29 – October 3, 2019, San Antonio, Texas, USA (***Invited Talk***)
 403. A. Ozcan, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," International Forum on Microscopy (IFM'19), September 6-8, 2019, Beijing, China (***Plenary Talk***)
 404. A. Ozcan, "Deep learning in optical microscopy and image reconstruction," Nature Conference on AI and Robotics, organized by Nature Machine Intelligence, Nature Biomedical Engineering and Tencent AI Lab, September 2, 2019, Shenzhen, China (***Invited Talk***)
 405. Z. Ballard, S. Bazargan, D. Jung, S. Sathianathan, A. Clemens, D. Shir, S. Al-Hashimi, and A. Ozcan, "Lysozyme sensing in tear using a contact lens" ACS National Meeting & Exposition, August 25-29, 2019, San Diego, CA, USA, Presentation # 3203231
 406. A. Ozcan, "Diffractive optical neural networks designed by deep learning," SPIE Optics and Photonics Conference, August 11-15, 2019, San Diego, CA, USA, Paper #11080-89 (***Invited Talk***)
 407. H. Wang, Y. Rivenson, Y. Jin, Z. Wei, R. Gao, H. Günaydın, L.A. Bentolila, C. Kural, and A. Ozcan, "Cross-modality super-resolution in fluorescence microscopy enabled by generative adversarial networks," SPIE Optics and Photonics Conference, August 11-15, 2019, San Diego, CA, USA, Paper # 11088-13
 408. A. Ozcan, "Deep learning optics," SPIE Optics and Photonics Conference, August 11-15, 2019, San Diego, CA, USA, Paper #11081-55 (***Invited Talk***)
 409. Z. Ballard, and A. Ozcan, "Deep learning-enabled computational microscopy and sensing," SPIE Optics and Photonics Conference, August 11-15, 2019, San Diego, CA, USA, Paper # 11087-10 (***Invited Talk***)
 410. H. Wang, Y. Rivenson, Y. Jin, Z. Wei, R. Gao, H. Günaydın, L.A. Bentolila, C. Kural, and A. Ozcan, "Generative Adversarial Networks Enable Cross-Modality Super-Resolution in Fluorescence Microscopy," Microscopy & Microanalysis, August 4-8, 2019, Portland, Oregon, USA
 411. D. Mengu and A. Ozcan, "Diffractive Optical Neural Networks," IEEE Photonics Society Summer Topical Meeting, July 8-10, 2019, Ft. Lauderdale, Florida, USA (***Invited Talk***)
 412. A. Ozcan, "Toward a thinking microscope: Deep learning-enabled computational microscopy," 21st International Vacuum Congress, July 1-5, 2019, Malmö, Sweden (***Invited Talk***)
 413. Y. Wu, A. Ray, Q. Wei, A. Feizi, X. Tong, E. Chen, Y. Luo, and A. Ozcan, "Deep learning-based particle aggregation sensor for high-throughput virus detection," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA
 414. Z. Ballard, H. A. Joung, A. Goncharov, J. Liang, K. Nugroho, R. Damoiseaux, D. Di Carlo, O. Garner, A. Ozcan, "Computational sensing with a multiplexed vertical flow assay for high-sensitivity c-reactive protein quantification," 20th Annual UC Systemwide Bioengineering Symposium, June 27- 29, 2019, University of California, Merced, CA, USA
 415. Y. Rivenson, H. Wang, Z. Wei, K. de Haan, W. D. Wallace, and A. Ozcan, "Virtual histological staining of unlabeled tissue via deep learning" 20th Annual UC Systemwide Bioengineering Symposium, June 27- 29, 2019, University of California, Merced, CA, USA
 416. Y. Luo, Y. Wu, G. Chaudhari, Y. Rivenson, A. Calis, K. de Haan, and A. Ozcan, "Deep Learning Enables 3D Reconstruction of a Hologram with Bright-field Contrast," 20th Annual UC Systemwide Bioengineering Symposium, June 27- 29, 2019, University of California, Merced, CA, USA

417. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, H. Ceylan Koydemir, Y. Zhang, H. Wang, Z. Göröcs, and A. Ozcan, "Mobile label-free bio-aerosol sensing using deep neural networks," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA
418. H. Ceylan Koydemir, S. Rajpal, E. Gumustekin, D. Karınca, K. Liang, Z. Gorocs, D. Tseng, and A. Ozcan, "Field portable smartphone based reader for turbidity analysis," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA
419. Y. Zhang, H. Ceylan Koydemir, M. M. Schimogawa, S. Yalcin, A. Guziak, T. Liu, I. Oguz, Y. Huang, B. Bai, Y. Luo, Y. Luo, Z. Wei, H. Wang, V. Bianco, B. Zhang, R. Nadkarni, K. Hill, and A. Ozcan, "Label-free and high-throughput detection of motile parasites in bodily fluids using time-resolved speckle imaging," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA
420. H. Ceylan Koydemir, J. T. Coulibaly, D. Tseng, I. I. Bogoch, and A. Ozcan, "Field testing of a mobile phone microscope for label-free screening of *Schistosoma* eggs," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA
421. Z. Göröcs, M. Tamamitsu, V. Bianco, P. Wolf, S. Roy, K. Shindo, K. Yanny, Y. Wu, H. Ceylan Koydemir, Y. Rivenson, and A. Ozcan, "Label-free monitoring of algae using a high-throughput, field-portable imaging flow cytometer," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA
422. J. Snow, H. Ceylan Koydemir, D. Tseng, D. Karınca, K. Liang, and A. Ozcan, "Detection of *Nosema ceranae* in honey bees using a mobile microscope," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA
423. M.A. Khalid, A. Ray, A. Demcenko, S. Cohen, M. Tassieri, J. Reboud, A. Ozcan, J. Cooper, "Lens-free Microscopy Using Acoustically Actuated Nanolenses and its Applications," OSA Imaging and Applied Optics Congress, June 24-27, 2019, Munich, Germany
424. A. Ozcan, "Deep learning in Optical Microscopy and Image Reconstruction," OSA Imaging and Applied Optics Congress, June 24-27, 2019, Munich, Germany (*Invited Talk*)
425. A. Ozcan, "Toward a thinking microscope: Deep learning-enabled computational microscopy and sensing," SPIE Optical Metrology and Digital Optical Technologies Symposia, June 24-27, 2019, Munich, Germany (*Keynote Talk*)
426. A. Ozcan, "Toward a thinking microscope: Deep learning-enabled computational microscopy and sensing," ECI Advances in Optics for Biotechnology, Medicine and Surgery XVI, June 2-5, 2019, Quebec, Canada (*Invited Talk*)
427. A. Ozcan, "Deep Learning in Optical Microscopy and Image Reconstruction", OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA (*Invited Talk*)
428. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, H. Koydemir, Y. Zhang, H. Wang, Z. Göröcs, A. Ozcan, "Label-free Bio-aerosol Sensing Using On-Chip Holographic Microscopy and Deep Learning," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
429. X. Lin, Y. Rivenson, Nezih T. Yardimci, Muhammed Veli, Y. Luo, M. Jarahi, A. Ozcan, "Deep Learning-designed Diffractive Neural Networks," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
430. Y. Zhang, H. Ceylan Koydemir, M. Shimogawa, S. Yalcin, A. Guziak, T. Liu, I. Oguz, Y. Huang, B. Bai, Y. Luo, Y. Luo, Z. Wei, H. Wang, V. Bianco, B. Zhang, R. Nadkarni, K. Hill, A. Ozcan, "High-Throughput and Label-Free Detection of Motile Parasites in Bodily Fluids Using Lensless Time-Resolved Speckle Imaging," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA

431. H. Wang, Y. Rivenson, Y. Jin, Z. Wei, R. Gao, H. Gunaydin, L. Bentolila, C. Kural, A. Ozcan, "Cross-Modality Deep Learning Achieves Super-Resolution in Fluorescence Microscopy," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
432. Z. Göröcs, M. Tamamitsu, V. Bianco, P. Wolf, S. Roy, K. Shindo, K. Yanny, Y. Wu, H. C. Koydemir, Y. Rivenson, A. Ozcan, "Portable Imaging Flow-cytometer Using Deep Learning-based Holographic Image Reconstruction," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
433. Y. Rivenson, H. Wang, K. de Haan, Z. Wei, A. Ozcan, "Deep Learning Enables Virtual Histological Staining of Label-free Tissue Sections Using Auto-fluorescence," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
434. A. Ray, M. Khalid, A. Demcenko, M. Daloglu, D. Tseng, J. Reboud, J. Cooper, A. Ozcan, "Holographic Microscopy with Acoustic Modulation for Detection of Nano-sized Particles and Pathogens in Solution", OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
435. Y. Rivenson, T. Liu, Z. Wei, K. de Haan, Y. Zhang, A. Ozcan, "PhaseStain: Deep Learning-based Histological Staining of Quantitative Phase Images," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
436. T. Liu, K. Haan, Y. Rivenson, Z. Wei, X. Zeng, Y. Zhang, A. Ozcan, "Enhancing Resolution in Coherent Microscopy Using Deep Learning," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
437. Y. Luo, Y. Wu, G. Chaudhari, Y. Rivenson, A. Calis, K. Haan, A. Ozcan, "Holographic Reconstruction with Bright-field Microscopy Contrast using Cross-Modality Deep Learning," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
438. T. Liu, Y. Zhang, Y. Huang, D. Teng, Y. Bian, Y. Wu, Y. Rivenson, A. Feizi, A. Ozcan, "An Absorbance Spectrum Estimation-based Accurate Colorization Method for Holographic Imaging of Pathology Slides," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
439. Y. Wu, A. Ray, Q. Wei, A. Feizi, X. Tong, E. Chen, Y. Luo, A. Ozcan, "Particle-Aggregation Based Virus Sensor Using Deep Learning and Lensless Digital Holography," OSA Conference on Lasers and Electro-optics (CLEO), May 5-10, 2019, San Jose, CA USA
440. A. Ozcan, "Deep Learning-enabled Computational Microscopy and Sensing," OSA Biophotonics Congress: Optics in the Life Sciences, April 14-17, 2019, Tucson, Arizona, USA (*Plenary Talk*)
441. A. Ozcan, "Deep learning in optical microscopy and image reconstruction," SPIE Defense & Commercial Sensing (DCS) Conference, April 14-18, 2019, Baltimore, MD, USA (*Invited Talk*)
442. A. Ozcan, "Interdisciplinary Undergraduate Research, Training and Innovation Program," National Academy of Inventors, Annual Meeting, April 10-11, 2019, Houston, TX, USA
443. H. Wang, Y. Rivenson, Y. Jin, Z. Wei, R. Gao, H. Günaydin, L.A. Bentolila, C. Kural, and A. Ozcan, "Cross-Modality Super-Resolution in Fluorescence Microscopy Enabled by Deep Learning," Keystone Symposia, Imaging Across Scales: Leveraging the Revolution in Resolution, April 7 - April 10, 2019, Snowbird, Utah
444. A. Ozcan, "Deep-learning-enabled computational microscopy and sensing," Nature Conference on In Vitro Diagnostics, organized by Nature Biomedical Engineering, Shanghai Jiao Tong University, the China Association of In-Vitro Diagnostics, March 22-23, 2019, Nanchang, China (*Invited Talk*)
445. A. Ozcan, "Deep Learning-Enabled Computational Microscopy and Sensing," Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, Pittcon Conference, March 17-21, 2019, Philadelphia, PA, USA (*Invited Talk*)

446. K. Liang, J.W. Snow, H.C. Koydemir, D.K. Karınca, D. Tseng, and A. Ozcan, "Honey Bee Parasite Detection Using a Smartphone," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, February 21-23, 2019, Washington DC, USA
447. A. Ozcan, "Deep Learning Optics", SPIE Photonics West, OPTO Plenary Session, February 2 - 7, 2019, San Francisco, CA (**Plenary Talk**)
448. A. Ozcan, "Toward a thinking microscope: Deep-learning-enabled computational microscopy and sensing", SPIE Photonics West, Optical Data Science, February 2 - 7, 2019, San Francisco, CA (**Keynote Talk**)
449. A. Ozcan, "Super-resolution microscopy using deep learning", SPIE Photonics West, Single Molecule Spectroscopy and Superresolution Imaging, February 2 - 7, 2019, San Francisco, CA (**Invited Talk**)
450. A. Ozcan, "Deep learning in optical microscopy and image reconstruction", SPIE Photonics West, Quantitative Phase Imaging, February 2 - 7, 2019, San Francisco, CA (**Invited Talk**)
451. A. Ozcan, "Deep-learning-enabled computational imaging", SPIE Photonics West, Quantum Sensing and Nano Electronics and Photonics, February 2 - 7, 2019, San Francisco, CA (**Invited Talk**)
452. A. Ozcan, "Diffractive deep neural networks for all-optical machine learning", SPIE Photonics West, Complex Light and Optical Forces, February 2 - 7, 2019, San Francisco, CA (**Invited Talk**)
453. Y. Zhang, H. Koydemir, M. Shimogawa, S. Yalcin, A. Guziak, T. Liu, I. Oguz, Y. Huang, B. Bai, Y. Luo, Z. Wei, H. Wang, V. Bianco, B. Zhang, R. Nadkarni, K. Hill, and A. Ozcan, "Time-resolved holographic speckle analysis for label-free and high-throughput detection of motile parasites in bodily fluids," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2 - 7, 2019, San Francisco, CA, Paper # 10869-26
454. A. Ray, A. Khalid, A. Demcenko, M. Daloglu, D. Tseng, J. Cooper, and A. Ozcan, "Acoustically actuated holographic microscopy for detection of nanoparticles in solution", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2 - 7, 2019, San Francisco, CA, Paper # 10869-21
455. Y. Zhang, T. Liu, Y. Huang, D. Teng, Y. Bian, Y. Wu, Y. Rivenson, A. Feizi, and A. Ozcan, "Accurate colorization for holographic imaging of pathology slides using absorbance spectrum estimation of histochemical stains", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2 - 7, 2019, San Francisco, CA, Paper # 10869-23
456. H. Wang, Y. Rivenson, Y. Jin, Z. Wei, R. Gao, H. Günaydın, L.A. Bentolila, C. Kural, and A. Ozcan, "Deep-learning enables cross-modality super-resolution in fluorescence microscopy," SPIE Photonics West, Optical Data Science II, February 2- 7, 2019, San Francisco, CA, Paper # 10937-13
457. Z. Göröcs, M. Tamamitsu, V. Bianco, P. Wolf, S. Roy, K. Shindo, K. Yanny, Y. Wu, H. C. Koydemir, Y. Rivenson, and A. Ozcan, "Deep learning-based label-free imaging flow cytometry for on-site analysis of water samples" SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2-7, 2019, San Francisco, CA, Paper # 10869-20
458. Z. Ballard. H. Joung, J. Liang, K. Nugroho, R. Damoiseaux, D. DiCarlo, and A. Ozcan, "Multiplexed paper-based assay for C-Reactive Protein (CRP) quantification using machine learning" SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2- 7, 2019, San Francisco, CA, Paper # 10869-19
459. M. Veli and A. Ozcan, "Sensing *Staphylococcus aureus* on a contact lens using machine learning and lensfree microscopy", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2 - 7, 2019, San Francisco, CA, Paper # 10869-18
460. M. Daloglu, F. Lin, B. Chong, D. Chien, M. Veli, W. Luo and A. Ozcan, "3D tracking of the head and flagellar motion of sex-sorted bovine sperm using on-chip holography," SPIE Photonics

- West, Label-free Biomedical Imaging and Sensing (LBIS), February 2-7, 2019, San Francisco, CA, Paper # 10890-75
461. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, H.C. Koydemir, Y. Zhang, H. Wang, Z. Göröcs, and A. Ozcan, "Deep-learning enabled label-free bio-aerosol sensing using mobile microscopy" SPIE Photonics West, Quantitative Phase Imaging V, February 2- 5, 2019, San Francisco, CA, Paper # 10890-70
 462. Y. Wu, Y. Rivenson, Y. Zhang, Z. Wei, H. Gunaydin, X. Lin, and A. Ozcan, "Auto-focusing and extended depth-of-field holographic reconstruction using deep learning" SPIE Photonics West, Quantitative Phase Imaging V, February 2-5, 2019, San Francisco, CA, Paper # 10887-4
 463. Z. Ballard, A. Clemens, F. Haque, M. Lucero, S. Sathianathan, D. Shir, and A. Ozcan, "Flexible plasmonic sensors for wearables and one-time use assays" SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2- February 7, 2019, San Francisco, CA, Paper # 10869-7
 464. H. Ceylan Koydemir, J. Snow, D. Karınca, K. Liang, D. Tseng, and A. Ozcan, "Bee parasite detection using a smartphone", SPIE Photonics West 2019, Optics and Biophotonics in Low Resource Settings V, February 2-7, 2019, San Francisco, CA, USA
 465. Y. Rivenson, T. Liu, Z. Wei, Y. Zhang, and A. Ozcan, "PhaseStain: deep learning for virtual staining of quantitative phase images," SPIE Photonics West, Quantitative Phase Imaging V, February 2 - February 5, 2019, San Francisco, CA, Paper # 10887-32.
 466. Y. Rivenson, H. Wang, Z. Wei, Y. Zhang, H. Gunaydin, and A. Ozcan, "Deep learning enables virtual staining of unstained tissue sections using auto-fluorescence images," SPIE Photonics West, Advanced Biomedical and Clinical Diagnostic and Surgical Guidance Systems XVII, February 3 - February 5, 2019, San Francisco, CA, Paper # 10868-12.
 467. Y. Rivenson, H. C. Koydemir, H. Wang, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng, and A. Ozcan, "Deep learning enhances mobile microscopic imaging," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings V, February 2 - February 3, 2019, San Francisco, CA, Paper # 10869-16.
 468. A. Ozcan, "Innovations at the Interface of Photonics and Medicine to Support Digital Health," Keystone Symposium, Digital Health: From Science to Application, January 21-26, 2019, Colorado, USA (*Invited Talk*)
 469. A. Ozcan, "Deep Learning Optics," IEEE EMBS Micro and Nanotechnology in Medicine Conference, December 10-14, 2018, Hawaii, USA (*Invited Talk*)
 470. A. Ozcan, "Deep Learning Optics," OSA Latin America Optics & Photonics Conference, November 12-15, 2018, Lima, Peru (*Plenary Talk*)
 471. A. Ozcan, "Toward a Thinking Microscope: Deep Learning in Optical Microscopy and Image Reconstruction," OSA Latin America Optics & Photonics Conference, November 12-15, 2018, Lima, Peru (*Invited Talk*)
 472. Y. Zhang, H. Koydemir, M. Shimogawa, S. Yalcin, K. Hill, A. Ozcan, "Label-Free and High-Throughput Detection of Motile Parasites from Bodily Fluids Using Time-Resolved Speckle Imaging," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
 473. T. Ghonge, H. Ceylan Koydemir, E. Valera, J. Berger, A. Ganguli, G. Damhorst, A. Ozcan, R. Bashir, "A Smartphone-assisted Microfluidic Assay for Measuring CD64 Expression on Neutrophils in Suspected Sepsis-positive Patients," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
 474. S. Rajpal, H. Koydemir, Z. Gorocs, D. Karnica, A. Ozcan, "Turbidity Measurement Using A Smartphone," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA

475. Y. Rivenson, H. Ceylan Koydemir, H. Wang, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng, A. Ozcan, "Deep Learning Bridges The Gap Between Mobile And Laboratory Grade Microscopes," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
476. H. Joung, Z. Ballard, A. Ma, D. Tseng, H. Teshome, S. Burakowski, O. Garner, D. Carlo, A. Ozcan, "Multiplexed paper-based vertical flow assay for point-of-care Lyme diagnostics using a mobile-phone," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
477. M. Kühnemund, Q. Wei, E. Darai, Y. Wang, I. Hernandez-Neuta, Z. Yang, D. Tseng, A. Ahlford, A. Ozcan, M. Nilsson, "KRAS Point Mutation Detection and Targeted DNA Sequencing on a Mobile Phone," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
478. Y. Zhang, Y. Shin, K. Sung, S. Yang, H. Chen, H. Wang, D. Teng, Y. Rivenson, R. Kulkarni, A. Ozcan, "3D Imaging of Optically Cleared Tissue Using On-Chip Microscopy," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
479. A. Ray, S. Li, T. Segura, A. Ozcan, "Monitoring the Degradation of Drug Loaded Nanoparticles Using Wide-Field Holographic Imaging," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
480. M. Veli and A. Ozcan, "Quantification of *Staphylococcus aureus* on Contact Lenses using Mobile Holographic Imaging of Curved Surfaces and Machine Learning," OSA Frontiers in Optics (FiO) Conference, September 16-20, 2018, Washington, DC, USA
481. A. Ozcan, "Deep Learning-enabled Computational Imaging and Sensing," ASME NanoEngineering for Medicine and Biology Conference, August 21-24, 2018, Los Angeles, CA, USA (**Plenary Talk**)
482. Y. Rivenson, H.C. Koydemir, H. Wang, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng and A. Ozcan, "Deep learning improves mobile-phone microscopy," SPIE Optics and Photonics Conference, August 19-23, 2018, San Diego, CA, USA
483. A. Ozcan, "Machine Learning Enabled Computational Imaging and Sensing for Point-of-Care Medicine and Global Health," Workshop on Artificial Intelligence in Photonics, OSA CLEO Pacific Rim, July 30, 2018, Hong Kong (**Invited Talk**)
484. A. Ozcan, "Deep Learning Enabled Computational Imaging and Sensing," 1st International Conference on Engineering Biomedical Breakthroughs (Helmholtz Pioneer Campus), Venice International University, Isola di San Servolo, Venice, Italy, July 3-6, 2018 (**Keynote Talk**)
485. A. Ozcan, "Machine Learning Enabled Computational Imaging and Sensing for Point-of-Care Medicine and Global Health," OSA Imaging and Applied Optics Congress, June 25-28, 2018, Orlando, Florida, USA (**Keynote Talk**)
486. Y. Wu, Y. Rivenson, Y. Zhang, Z. Wei, H. Gunaydin, X. Lin, and A. Ozcan, "Deep neural network-based phase recovery and auto-focusing extend the depth-of-field in digital holography," OSA Imaging and Applied Optics Congress, June 25-28, 2018, Orlando, Florida, USA (**Postdeadline Paper**)
487. H. Wang, Y. Rivenson, H.C. Koydemir, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng and A. Ozcan, "Deep learning enhances mobile microscopy," OSA Imaging and Applied Optics Congress, June 25-28, 2018, Orlando, Florida, USA (**Postdeadline Paper**)
488. A. Ray, S. Li, T. Segura, and A. Ozcan, "Holographic microscopy monitors the degradation of drug loaded nanoparticles," 19th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2018, University of California, Riverside, CA, USA
489. Y. Zhang, T. Liu, Y. Huang, D. Teng, Y. Bian, Y. Wu, Y. Rivenson, A. Feizi, and A. Ozcan, "Accurate-color holographic imaging of pathology slides using absorbance spectrum estimation,"

- 19th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2018, University of California, Riverside, CA, USA
490. Y. Zhang, Y. Shin, K. Sung, S. Yang, H. Chen, H. Wang, D. Teng, Y. Rivenson, R.P. Kulkarni, and A. Ozcan, "On-chip microscopy for 3D imaging of optically cleared tissue," 19th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2018, University of California, Riverside, CA, USA
491. Y. Wu, Y. Rivenson, Y. Zhang, Z. Wei, H. Gunaydin, X. Lin, and A. Ozcan, "Deep learning achieves auto-focusing and phase recovery to extend the depth-of-field in digital holographic microscopy," 19th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2018, University of California, Riverside, CA, USA
492. M. Veli, and A. Ozcan, "Automated detection and quantification of *staphylococcus aureus* on contact lenses using lensfree microscopy and machine learning" 28th World Congress on Biosensors (Biosensors Congress, Elsevier), June 12-15, 2018, Miami, FL, USA (**Keynote Talk**)
493. Z. Gorocs, Z. Ballard, C. Brown, D. Tseng, D. DiCarlo, O. Garner, and A. Ozcan, "Computational Sensing Technologies for Point-of-care Diagnostics and Global Health" SPIE Translational Biophotonics, May 14 - 15, 2018, Houston, TX, USA (**Invited Talk**)
494. A. Ozcan, "Deep Learning-enabled Computational Imaging and Sensing," 20th TechConnect World Innovation Conference, Chemical, Physical & Bio-Sensors Symposium, May 13-16, 2018, Anaheim, CA, USA (**Invited Talk**)
495. A. Ray, M. Daloglu, J. Ho, E. McLeod, and A. Ozcan, "Mobile holographic sensor for the detection of herpes simplex virus," 20th TechConnect World Innovation Conference, Chemical, Physical & Bio-Sensors Symposium, May 13-16, 2018, Anaheim, CA, USA
496. Y. Rivenson, H. Ceylan Koydemir, H. Wang, Z. Wei, Z. Ren, H. Günaydin, Y. Zhang, Z. Göröcs, K. Liang, D. Tseng, A. Ozcan, "Deep Learning Improves Smartphone Microscopy Using a Convolutional Neural Network," 20th TechConnect World Innovation Conference, Chemical, Physical & Bio-Sensors Symposium, May 13-16, 2018, Anaheim, CA, USA
497. Z. Ballard, D. Shir, A. Bhardwaj, S. Bazargan, S. Santhianathan, and A. Ozcan, "Computational sensing with mobile optical readers designed by machine learning," 20th TechConnect World Innovation Conference, Chemical, Physical & Bio-Sensors Symposium, May 13-16, 2018, Anaheim, CA, USA
498. A. Ozcan, "Machine Learning and Computation Enabled Microscopy and Sensing for Point-of-Care Medicine and Global Health," OSA Conference on Lasers and Electro-optics (CLEO), May 13-18, 2018, San Jose, CA USA (**Invited Talk**)
499. Y. Rivenson, Z. Göröcs, H. Günaydin, Y. Zhang, H. Wang, A. Ozcan, "Deep Learning Microscopy: Enhancing Resolution, Field-of-View and Depth-of-Field of Optical Microscopy Images Using Neural Networks," OSA Conference on Lasers and Electro-optics (CLEO), May 13-18, 2018, San Jose, CA USA
500. Y. Zhang, H. Wang, Y. Wu, M. Tamamitsu, and A. Ozcan, "Robust Holographic Autofocusing Based on Edge Sparsity," OSA Conference on Lasers and Electro-optics (CLEO), May 13-18, 2018, San Jose, CA USA
501. Y. Rivenson, Y. Zhang, H. Günaydin, D. Teng, A. Ozcan, "Non-Iterative Holographic Image Reconstruction and Phase Retrieval Using a Deep Convolutional Neural Network," OSA Conference on Lasers and Electro-optics (CLEO), May 13-18, 2018, San Jose, CA USA
502. A. Ray, S. Li, T. Segura, and A. Ozcan, "High-throughput holographic monitoring of nanoparticle degradation for drug delivery applications," OSA Conference on Lasers and Electro-optics (CLEO), May 13-18, 2018, San Jose, CA USA
503. Q. Wei, G. Acuna, S. Kim, C. Vietz, D. Tseng, J. Chae, D. Shir, W. Luo, P. Tinnefeld, and A. Ozcan, "Plasmonics Improves the Sensitivity of Smartphone Fluorescence Microscopy," OSA Conference on Lasers and Electro-optics (CLEO), May 13-18, 2018, San Jose, CA USA

504. M. Daloglu, W. Luo, F. Shabbir, F. Lin, K. Kim, I. Lee, J. Jiang, W. Cai, V. Ramesh, and M. Yu, and A. Ozcan, "High-throughput 3D Tracking of Sperm Locomotion Reveals Head Spin and Flagellar Beating Patterns," OSA Conference on Lasers and Electro-optics (CLEO), May 13-18, 2018, San Jose, CA USA
505. A. Ozcan, "Deep Learning Enabled Computational Imaging and Sensing," IEEE International Conference on Nano/Micro Engineered and Molecular Systems, April 22-26, 2018, Singapore (**Keynote Talk**)
506. A. Ozcan, "Machine Learning Enabled Computational Imaging and Sensing," OSA Biophotonics Congress - Biomedical Optics, April 3-6, 2018, Florida, USA (**Invited Talk**)
507. Y. Rivenson, Y. Zhang, H. Günaydin, D. Teng, and A. Ozcan, "Phase Retrieval and Hologram Reconstruction Using a Neural Network," American Physical Society, APS March Meeting, March 5-9, 2018, Los Angeles, CA, USA
508. Y. Zhang, Y. Shin, K. Sung, S. Yang, H. Chen, H. Wang, D. Teng, Y. Rivenson, R.P. Kulkarni, and A. Ozcan, "On-chip 3D Microscopy of Optically Cleared Tissue," American Physical Society, APS March Meeting, March 5-9, 2018, Los Angeles, CA, USA
509. Y. Rivenson, Z. Gorocs, H. Gunaydin, Y. Zhang, H. Wang, and A. Ozcan, "Enhancing Microscopy through Deep Learning," American Physical Society, APS March Meeting, March 5-9, 2018, Los Angeles, CA, USA
510. A. Ozcan, "Mobile Microscopy, Sensing and Diagnostics through Computational Photonics," Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, Pittcon Conference, February 26-March 1, 2018, Orlando, FL, USA (**Invited Talk**)
511. S. Feng, D. Tseng, C. Brown, D. DiCarlo, O. Garner and A. Ozcan, "Smartphone-Based Microplate Reader for Automated Antimicrobial Susceptibility Testing," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, February 22-24, 2018, Washington DC, USA
512. M. Tamamitsu, Y. Zhang, H. Wang, Y. Wu, and A. Ozcan, "Robust Holographic Autofocusing Using Edge Sparsity of the Complex Optical Wavefront," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, February 22-24, 2018, Washington DC, USA
513. M.U. Daloglu, W. Luo, F. Shabbir, F. Lin, K. Kim, I. Lee, J. Jiang, W. Cai, V. Ramesh, M. Yu, and A. Ozcan, "High-throughput 3D Tracking of Sperm Cells Reveals Flagellar Beating Patterns and Head Spin," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, February 22-24, 2018, Washington, DC, USA
514. Z.S. Ballard, M. Fordham, M. Lei, and A. Ozcan, "Optimization of spectral sensor performance using machine learning," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, February 22-24, 2018, Washington, DC, USA
515. A. Ozcan, "Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health," Molecular Medicine Tri-Conference, Molecular Diagnostics for Infectious Diseases, February 11-16, 2018, San Francisco, CA, USA (**Invited Talk**)
516. Y. Wu, A. Shiledar, Y. Li, J. Wong, S. Feng, X. Chen, C. Chen, K. Jin, S. Janamian, Z. Yang, Z.S. Ballard, Z. Göröcs, A. Feizi, and A. Ozcan, "Air quality monitoring using lens-less holographic on-chip microscopy," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IV, January 27- February 1, 2018, San Francisco, CA, Paper # 10485-29
517. Y. Zhang, Y. Shin, K. Sung, S. Yang, H. Chen, H. Wang, D. Teng, Y. Rivenson, R. P. Kulkarni, and A. Ozcan, "3D on-chip microscopy of optically cleared tissue," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IV, January 27- February 1, 2018, San Francisco, CA, Paper # 10485-35

518. A. Ozcan, "Lost in image data," SPIE Photonics West, Optical Data Science: Trends Shaping the Future of Photonics, January 27-February 1, 2018, San Francisco, CA, Paper # 10551-13 (*Invited Talk*)
519. M.U. Daloglu, A. Ray, Z. Gorocs, M. Xiong, R. Malik, G. Bitan, E. McLeod and A. Ozcan, "On-chip ultraviolet holography for high-throughput nanoparticle and biomolecule detection," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IV, January 27 - February 1, 2018, San Francisco, CA, Paper # 10485-36
520. Y. Zhang, H. Wang, Y. Wu, M. Tamamitsu, and A. Ozcan, "A robust holographic autofocusing criterion based on edge sparsity," SPIE Photonics West, Quantitative Phase Imaging IV, January 27- February 1, 2018, San Francisco, CA, Paper # 10503-19
521. A. Ray, S. Li, T. Segura, and A. Ozcan, "Monitoring of nanoparticle degradation using holographic on-chip microscopy for drug delivery applications," SPIE Photonics West, Colloidal Nanoparticles for Biomedical Applications XIII, January 27-February 1, 2018, San Francisco, CA, Paper # 10507-22
522. Y. Zhang, M. Alexander, S. Yang, R. Krishnan, Y. Bian, E. Botvinick, J. Lakey, and A. Ozcan, "High-throughput screening of encapsulated islets using wide-field lens-free on-chip imaging," SPIE Photonics West, Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XVI, January 27- February 1, 2018, San Francisco, CA, Paper # 10497-28
523. Z. Ballard, D. Shir, A. Bhardwaj, S. Bazargan, S. Sathianathan, A. Ozcan, "Machine learning enabled flexible and low-cost plasmonic sensors for point-of-care sensing," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IV, January 27 - February 1, 2018, San Francisco, CA, Paper # 10485-8
524. Y. Rivenson, Z. Göröcs, H. Günaydın, Y. Zhang, H. Wang and A. Ozcan, "Deep learning enhances microscopic imaging," SPIE Photonics West, Optical Data Science: Trends Shaping the Future of Photonics, January 27-February 1, 2018, San Francisco, CA, Paper # 10551-11 (*Invited Talk*)
525. Q. Wei, G. Acuna, S. Kim, C. Vietz, D. Tseng, J. Chae, D. Shir, W. Luo, P. Tinnefeld, and A. Ozcan, "Surface-enhanced fluorescence microscopy on a smartphone," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IV, January 27- February 1, 2018, San Francisco, CA, USA - Paper # 10485-20
526. Z. Göröcs, Y. Rivenson, H.C. Koydemir, D. Tseng, T.L. Troy, V. Demas and A. Ozcan, "Compact imaging system for quantitative fluorescence sensing through autofluorescent, scattering and absorbing media," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IV, January 27- February 1, 2018, San Francisco, CA, USA - Paper # 10485-23
527. Y. Rivenson, Y. Zhang, H. Gunaydin, D. Teng, and A. Ozcan, "Deep learning based holographic image reconstruction and phase recovery," SPIE Photonics West, Quantitative Phase Imaging IV, January 27- February 1, 2018, San Francisco, CA, USA - Paper # 10503-18
528. M. Kühnemund, Q. Wei, E. Darai, Y. Wang, I. Hernandez-Neuta, Z. Yang, D. Tseng, A. Ahlford, L. Mathot, T. Sjöblom, A. Ozcan, and M. Nilsson, "*In situ* detection of point mutations and targeted DNA sequencing using mobile phone microscopy," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings IV, January 27- February 1, 2018, San Francisco, CA, USA - Paper # 10485-26
529. S. Feng, D. Tseng, C. Brown, D. DiCarlo, O. Garner and A. Ozcan, "Automated Diagnosis of Antimicrobial Resistance using a Mobile Phone Based Well-Plate Reader," Keystone Symposia on Antimicrobials and Resistance: Opportunities and Challenges, October 29 – November 1, 2017, Santa Fe, NM, USA
530. J. Kong, Q. Wei, D. Tseng, J. Zhang, E. Pan, M. Lewinski, O. Garner, A. Ozcan, and D. Di Carlo, "Highly Stable and Sensitive Nucleic Acid Detection using Unique Dye Interactions and

- a Fluorescence Multi-well Plate Reader on a Mobile Phone," BMES (Biomedical Engineering Society) Annual Meeting, October 11–14, 2017, Phoenix, AZ, USA
531. J. Gupta, A. Cheng, D. Joh, T. Dailey-Chwalibog, A. Hucknall, Q. Wei, A. Ozcan, B. Guesdon, M. Freemark, and A. Chilkoti, "A Point-of-Care Screening Platform for Serotargets of Severe Acute Malnutrition," BMES (Biomedical Engineering Society) Annual Meeting, October 11–14, 2017, Phoenix, AZ, USA
532. S. Feng, D. Tseng, C. Brown, D. DiCarlo, O. Garner and A. Ozcan, "Automated and Cost-Effective Antimicrobial Susceptibility Testing on a Mobile Phone," BMES (Biomedical Engineering Society) Annual Meeting, October 11–14, 2017, Phoenix, AZ, USA
533. A. Ozcan, "Mobile Imaging, Sensing and Diagnostics Using Computational Photonics," Biodetection and Biosensors Conference, Select Biosciences Meeting, Murray Edwards College, October 10-11, 2017, Cambridge, UK (**Keynote Talk**)
534. Y. Zhang, Y. Shin, K. Sung, S. Yang, H. Chen, H. Wang, D. Teng, Y. Rivenson, R. Kulkarni, and A. Ozcan, "Holographic 3D microscopy of optically cleared tissue," OSA Frontiers in Optics (FiO) Conference, September 17-21, 2017, Washington, DC, USA
535. A. Ozcan, "Mobile microscopy, sensing and diagnostics through computational photonics," Light Conference, July 17-18, 2017, Changchun, China (**Invited Talk**)
536. A. Ozcan, "Mobile microscopy, sensing and diagnostics through computational photonics," VII International Congress on Analytical Nanoscience and Nanotechnology, July 3-5, 2017, Barcelona, Spain (**Plenary Talk**)
537. Y. Wu, A. Shiledar, Y. Li, J. Wong, S. Feng, X. Chen, C. Chen, K. Jin, S. Janamian, Z. Yang, Z. Ballard, Z. Göröcs, A. Feizi, and A. Ozcan, "Computational Mobile Microscopy and Machine Learning Enable High-throughput Air Quality Monitoring," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
538. Z. Ballard, D. Shir, A. Bhardwaj, S. Bazargan, S. Santhianathan and A. Ozcan, "Low-cost plasmonic readers designed by machine learning," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
539. Z. Göröcs, Y. Rivenson, H.C. Koydemir, D. Tseng, T.L. Troy, V. Demas and A. Ozcan, "Quantitative fluorescence sensing through an autofluorescent skin tissue phantom using a portable microscope," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
540. J. E. Kong, Q. Wei, D. Tseng, J. Zhang, E. Pan, M. Lewinski, O.B. Garner, A. Ozcan, D. Di Carlo, "Enhanced nucleic acid readout with intercalator sequestration and cell-phone based fluorescence multiwell plate reader," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
541. H.E. Muñoz, C.T. Riche, J.E. Kong, O.B. Garner, A. Ozcan, and D. Di Carlo, "Bright Field Analysis of Digital LAMP Assay," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
542. Y. Zhang, M. Alexander, S. Yang, R. Krishnan, Y. Bian, E. Botvinick, J. Lakey, and A. Ozcan, "High-throughput Analysis of Islet Encapsulation Quality with Lens-free On-chip Imaging," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
543. H. Ceylan Koydemir, I. I. Bogoch, D. Tseng, R.K.D. Ephraim, E. Duah, J. Tee, J. R. Andrews, and A. Ozcan, "Field Testing of a Mobile Phone Microscope for Screening of Schistosomiasis in Sub-Saharan Africa," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
544. M. U. Daloglu, A. Ray, Z. Gorocs, M. Xiong, R. Malik, G. Bitan, E. McLeod and A. Ozcan, "Wide-field and High-contrast Biomolecule Imaging With On-chip Holography Using

- Ultraviolet Light,” 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
545. H. Wang, Z. Göröcs, W. Luo, Y. Zhang, Y. Rivenson, and A. Ozcan, "Pixel Super-Resolution in Lens-Based Coherent Microscopy Using Out-of-focus Imaging," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA
546. A. Ozcan, “Computational Microscopy, Sensing and Diagnostics,” European Conferences on Biomedical Optics (ECBO) – OSA and SPIE, June 25-29, 2017, Munich, Germany (**Plenary Talk**)
547. A. Ozcan, “Applications of holographic on-chip microscopy,” SPIE Optical Metrology Conference, Optical Methods for Inspection, Characterization, and Imaging of Biomaterials, June 25-29, 2017, Munich, Germany (**Keynote Talk**)
548. A. Ozcan, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” Pathology Informatics Summit, May 22-25, 2017, Pittsburgh, PA, USA (**Invited Talk**)
549. Y. Wu, A. Shiledar, Y. Li, J. Wong, S. Feng, X. Chen, C. Chen, K. Jin, S. Janamian, Z. Yang, Z.S. Ballard, Z. Göröcs, A. Feizi, and A. Ozcan, “Mobile Microscopy and Machine Learning Provide Accurate and High-throughput Monitoring of Air Quality,” OSA Conference on Lasers and Electro-optics (CLEO ‘17), May 14-19, 2017, San Jose, CA USA (**Postdeadline Paper**)
550. Z.S. Ballard, D. Shir, A. Bhardwaj, S. Bazargan, S. Sathianathan, and A. Ozcan, “Computational Sensing in Plasmonics: Design of Low-cost and Mobile Plasmonic Readers Using Machine Learning,” OSA Conference on Lasers and Electro-optics (CLEO ‘17), May 14-19, 2017, San Jose, CA USA
551. A. Feizi, Y. Zhang, A. Greenbaum, A. Guziak, M. Luong, R. Chan, B. Berg, H. Ozkan, W. Luo, M. Wu, Y. Wu, and A. Ozcan, “Lensfree On-chip Microscopy Achieves Accurate Measurement of Yeast Cell Viability and Concentration Using Machine Learning,” OSA Conference on Lasers and Electro-optics (CLEO ‘17), May 16-18, 2016, San Jose, CA USA
552. H. Ceylan Koydemir, S. Feng, K. Liang, D. Tseng, R. Nadkarni, P. Benien, and A. Ozcan, "Automated Detection and Enumeration of Waterborne Pathogens Using Mobile Phone Microscopy and Machine Learning," OSA Conference on Lasers and Electro-optics (CLEO '17), May 14-19, 2017, San Jose, CA, USA
553. M. Daloglu, A. Ray, Z. Göröcs, M. Xiong, R. Malik, G. Bitan, E. McLeod, and A. Ozcan, “On-chip Microscopy and Nano-particle Detection Using Ultraviolet Light,” OSA Conference on Lasers and Electro-optics (CLEO ‘17), May 14-19, 2017, San Jose, CA USA
554. Z. Göröcs, Y. Rivenson, H. C. Koydemir, D. Tseng, T. Troy, V. Demas, and A. Ozcan "Mobile Microscope for Quantitative Fluorescence Sensing Through Highly Autofluorescent and Scattering Media” OSA Conference on Lasers and Electro-optics (CLEO ‘17), May 14-19, 2017, San Jose, CA USA
555. H. Wang, Z. Gorocs, W. Luo, Y. Zhang, Y. Rivenson, A. Ozcan, "Pixel Super-Resolution in Coherent Microscopy Systems Through Out-of-Focus Imaging," OSA Conference on Lasers and Electro-optics (CLEO '17), May 14-19, 2017, San Jose, CA, USA
556. Y. Rivenson, Y. Wu, H. Wang, Y. Zhang, A. Feizi, and A. Ozcan, "Sparsity-based On-chip Holographic Microscopy," OSA Conference on Lasers and Electro-optics (CLEO ‘17), May 14-19, 2017, San Jose, CA USA
557. A. Ozcan, “Mobile Microscopy, Sensing and Diagnostics through Computational Photonics,” IEEE NEMS Conference: Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems, April 9-12, 2017, Los Angeles, CA, USA (**Invited Talk**)
558. A. Ozcan, “Computational Imaging, Sensing and Diagnostics,” Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, Pittcon Conference, March 5-9, 2017, Chicago, IL, USA (**Invited Talk**)

559. Z.S. Ballard, D. Shir, A. Bhardwaj, S. Bazargan, S. Sathianathan, and A. Ozcan, "Design of Low-cost and Field-portable Plasmonic Readers Using Machine Learning," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, March 2-4, 2017, Washington, DC, USA
560. H.C. Koydemir, S. Feng, K. Liang, R. Nadkarni, D. Tseng, P. Benien and A. Ozcan, "Rapid Detection and Quantification of Waterborne Pathogens Using Smartphone Based Fluorescence Microscopy and Machine Learning," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, March 2-4, 2017, Washington, DC, USA
561. A. Ozcan, "Mobile Imaging, Sensing and Diagnostics through Computational Photonics," SPIE Photonics West, Biophotonics Executive Forum, 31 January, 2017, San Francisco, CA (*Invited Talk*)
562. Y. Wu, Y. Zhang, W. Luo, and A. Ozcan, "Demosaiced pixel super-resolution in digital holography for multiplexed computational color imaging on a chip," SPIE Photonics West, Spectroscopy and Multi-Color Imaging and Sensing Techniques, 28 January - 2 February 2017, San Francisco, CA, Paper # 10055-5
563. A. Feizi, Y. Zhang, A. Greenbaum, A. Guziak, M. Luong, R. Chan, B. Berg, W. Luo, M. Wu, Y. Wu, and A. Ozcan, "Yeast viability and concentration measurement using lens-free on-chip microscopy and machine learning," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, January 28-February 2, 2017, San Francisco, CA, Paper #10055-7
564. H.C. Koydemir, S.W. Feng, K. Liang, R. Nadkarni, D. Tseng, P. Benien, and A. Ozcan, "A survey of supervised machine learning models for mobile-phone based pathogen identification and classification", SPIE Photonics West 2017, Optics and Biophotonics in Low Resource Settings III, 28 January – 2 February, 2017, San Francisco, CA, Paper # 10055-9
565. S.W. Feng, D. Tseng, D. Di Carlo, O.B. Garner and A. Ozcan, "A cost-effective smartphone-based antimicrobial susceptibility test reader for drug resistance testing", SPIE Photonics West 2017, Optics and Biophotonics in Low Resource Settings III, 28 January – 2 February, 2017, San Francisco, CA, Paper # 10055-10
566. A. Ray, H. Ho, M. Daloglu, A. Torres, E. McLeod, and A. Ozcan, " Cost-effective and label-free holographic biosensor for detection of Herpes Simplex Virus," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings III, January 28-February 2, 2017, San Francisco, CA, Paper # 10055-13
567. Y. Rivenson, Y. Wu, H. Wang, Y. Zhang, and A. Ozcan, "High resolution computational on-chip imaging of biological samples using sparsity constraint," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings III, January 28-Feb 2, 2017, San Francisco, CA, Paper # 10055-22
568. W. Luo, H. Wang, Z. Gorocs, L. Bentolila, and A. Ozcan, "Super-resolution through out-of-focus imaging in lens-based microscopy," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings III, January 28 - February 2, 2017, San Francisco, CA, Paper # 10055-24
569. Y. Zhang, Y. Wu, Y. Zhang, and A. Ozcan, "Fusion of lens-free microscopy and mobile-phone microscopy images for high-color-accuracy and high-resolution pathology imaging ," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings III, January 28 - February 2, 2017, San Francisco, CA, Paper # 10055-27
570. A. Ozcan, "Applications of holographic on-chip microscopy," SPIE Photonics West, Quantitative Phase Imaging III, 28 January - 2 February 2017, San Francisco, CA (*Invited Talk*)
571. H.C. Koydemir, and A. Ozcan, "Waterborne pathogen detection using a smartphone based fluorescence microscope and machine learning", Biological and Chemical Sensors Summit, December 5-7, 2016, La Jolla, CA, USA

572. B. Berg, B. Cortazar, D. Tseng, H. Ozkan, S. Feng, Q. Wei, R. Y. Chan, J. Burbano, Q. Farooqui, M. Lewinski, D. Di Carlo, O. B. Garner, and A. Ozcan, “Colorimetric Microplate Reader for Point-of-Care ELISA Quantification”, Biological and Chemical Sensors Summit, December 5-7, 2016, La Jolla, CA, USA
573. Y. Zhang and A. Ozcan, “Lensfree On-Chip Biomedical Imaging Using Cost-Effective Image Sensors,” Biological and Chemical Sensors Summit, December 5-7, 2016, La Jolla, CA, USA
574. S.Y. Celine Lee, Y. Zhang, D. Furst, A. Rosenthal, R. Schumacher, J. FitzGerald, A. Ozcan, “Computational Polarizing Microscopy: A Novel Method to Detect Birefringent Crystals Using Lens-Free on-Chip Microscopy,” American College of Rheumatology (ACR/ARHP) Annual Meeting, November 11-16, 2016, Washington DC, USA
575. S.Y. Celine Lee, Y. Zhang, D. Furst, A. Rosenthal, R. Schumacher, J. FitzGerald, A. Ozcan, “Computational Polarizing Microscopy: A Novel Method to Image Birefringent Crystals in Patient Samples,” Gout, Hyperuricemia and Crystal-Associated Disease Network (G-CAN) Annual Meeting, November 11, 2016, Washington DC, USA
576. H.C. Koydemir, and A. Ozcan, "Waterborne pathogen detection using a smartphone based fluorescence microscope and machine learning", Clean Air and Water Solutions Conference, American Filtration and Separations Society, October 25-26, 2016, San Diego, CA, USA
577. B. Berg, B. Cortazar, D. Tseng, H. Ozkan, S. Feng, Q. Wei, R. Y. Chan, J. Burbano, Q. Farooqui, M. Lewinski, D. Di Carlo, O. B. Garner, and A. Ozcan, "A Smartphone-Based 96-Well Plate Reader for Cost-effective Point-of-Care ELISA Test Quantification", IEEE Global Humanitarian Technology Conference (GHTC), October 13-16, 2016, Seattle, Washington, USA
578. Y. Zhang, S. Y. C. Lee, Y. Zhang, D. Furst, J. Fitzgerald, and A. Ozcan, “Wide-field Synovial Fluid Analysis Using Lens-free Polarized Microscopy for Gout Diagnosis,” BMES (Biomedical Engineering Society) Annual Meeting, October 5-8, 2016, Minneapolis, Minnesota, USA
579. H.C. Koydemir, I.I. Bogoch, D. Tseng, R.K.D. Ephraim, E. Duah, J. Tee, J. R. Andrews, and A. Ozcan, "Label-free Field Screening of Schistosoma haematobium Eggs in Urine Samples Using a Cost Effective Smartphone Based Microscope", BMES (Biomedical Engineering Society) Annual Meeting, Micro/Nano Tools in Medicine, October 5-8, 2016, Minneapolis, Minnesota, USA
580. A. Ray, H. Ho, M. Daloglu, E. Mcleod and A. Ozcan, "Field-Portable Holographic Microscope for Label-free Detection of Herpes Simplex Virus", BMES (Biomedical Engineering Society) Annual Meeting, October 5-8, 2016, Minneapolis, Minnesota, USA
581. A. Ozcan, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” The Annual Meeting of The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) – SciX Conference, September 18-23, 2016, Minneapolis, Minnesota (**Keynote Talk**)
582. A. Ozcan, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” National Meeting of Electromagnetism, University of Parma, September 12-14, 2016, Parma, Italy (**Plenary Talk**)
583. A. Ozcan, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics” Gordon Research Conference (GRC), The Use of Big Data in Health Related Research, The Chinese University of Hong Kong, July 17-22, 2016, Hong Kong, China (**Invited Talk**)
584. B. Berg, B. Cortazar, D. Tseng, H. Ozkan, S. Feng, Q. Wei, R. Y. Chan, J. Burbano, Q. Farooqui, M. Lewinski, D. Di Carlo, O. B. Garner, and A. Ozcan, “A Smartphone Colorimetric Microplate Reader for Point-of-Care ELISA Quantification”, Biodefense World Summit 2016 (June 28-29, 2016), Baltimore, MD, USA

585. A. Ozcan, "High-throughput analysis of horse sperm 3D swimming patterns using computational on-chip imaging" Association for Applied Animal Andrology (AAAA) Biennial Conference, June 24-26, 2016, Tours, France (*Plenary Talk*)
586. H.C. Koydemir, E. Van Dyne, D. Tseng, S. Feng, D. Karınca, K. Liang, R. Nadkarni, R. Varma, and A. Ozcan, "Sickle Cell Detection Using a Smartphone Based Transmission Microscope", 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
587. S. Feng, M.J. Woo, H. Kim, E.S. Shin, and A. Ozcan, "An online global-health related technology training platform for middle and high-school students," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
588. Y. Zhang, S. Y. C. Lee, Y. Zhang, D. Furst, J. Fitzgerald, and A. Ozcan, "Wide-Field Lens-Free Polarized Imaging of Birefringent Crystals in Synovial Fluid for Gout Diagnosis," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
589. A. Ozcan, "Mobile Imaging, Sensing and Diagnostics," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA (*Invited Talk*)
590. K. Yanny, P. Wolf, H. Patel, Z. Gorocs and A. Ozcan, "High-Throughput Imaging Cytometer for Real-Time Waterborne Pathogen Monitoring," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
591. Z. Gorocs, W. Luo, Y. Zhang, A. Feizi and A. Ozcan, "Wavelength scanning enables pixel super-resolution in holographic microscopy," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
592. B. Berg, B. Cortazar, D. Tseng, Q. Wei, D. Di Carlo, O. B. Garner, and A. Ozcan, "A Smartphone-Based 96-Well Plate Reader for Point-of-Care Quantification of Colorimetric ELISA Tests," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
593. Y. Wu, Y. Zhang, W. Luo, and A. Ozcan, "Multiplexed Holographic Color Imaging on a Chip Using Demosaiced Pixel Super-Resolution," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
594. Y. Zhang, Y. Wu, Y. Zhang, and A. Ozcan, "Color Calibrated Fusion of Lens-free and Mobile-Phone Microscopy Images for High-Resolution and High-Color-Fidelity Imaging," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
595. A. Ray, H. Ho, M. Daloglu, E. Mcleod, A. Ozcan, "Label-free Detection of Herpes Simplex Virus using a Cost-effective and Portable Holographic Microscope", 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
596. Y. Rivenson, H. Wang, Y. Wu, Y. Zhang, and A. Ozcan, "Computational holographic imaging of biological samples using sparsity constraint," 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA
597. Y. Wu, Y. Zhang, W. Luo and A. Ozcan, "Multiplexed Color Imaging Using Demosaiced Pixel Super-Resolution," OSA Conference on Lasers and Electro-optics (CLEO '16), June 5-10, 2016, San Jose, CA USA, Paper # AM4O.6
598. W. Luo, Y. Zhang, Z. Gorocs, and A. Ozcan, "Wavelength Scanning based Pixel Super-Resolution," OSA Conference on Lasers and Electro-optics (CLEO '16), June 6-10, 2016, San Jose, CA USA, Paper # STh3G.5

599. B. Berg, B. Cortazar, D. Tseng, H. Ozkan, S. Feng, Q. Wei, R. Y. Chan, J. Burbano, Q. Farooqui, M. Lewinski, D. Di Carlo, O. B. Garner, and A. Ozcan, "A Smartphone-based Microplate Reader for Point-of-Care ELISA Quantification," OSA Conference on Lasers and Electro-optics (CLEO '16), June 5-10, 2016, San Jose, CA USA, Paper # ATu1O.4
600. Y. Zhang, Y. Wu, Y. Zhang, and A. Ozcan, "Fusion of Lens-free and Lens-based Microscope Images for Accurate Color Imaging," OSA Conference on Lasers and Electro-optics (CLEO '16), June 5-10, 2016, San Jose, CA USA, Paper # STh3G.3
601. A. Ozcan, "Mobile Imaging, Sensing and Diagnostics" 26th Anniversary World Congress on Biosensors (Biosensors Congress, Elsevier), May 25-27, 2016, Gothenburg, Sweden (**Plenary Talk**)
602. A. Ozcan, "Mobile-phone based imaging, sensing and diagnostics technologies" Summer School on Mobile Diagnostics, Biosensors Congress, Elsevier, May 24, 2016, Gothenburg, Sweden (**Invited Talk**)
603. A. Ozcan, "Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics" **Ernst Abbe Lecture**, International Conference on Applied Optics and Photonics (organized by ICO and DGaO), May 19, 2016, Hannover, Germany
604. A. Ozcan, "Computational Microscopy, Sensing and Diagnostics," IEEE International Conference on Computational Photography (ICCP), Northwestern University, May 13-15, 2016, Evanston, IL (**Keynote Talk**)
605. K. Yanny, P. Wolf, Z. Gorocs, A. Ozcan, "Real-Time Waterborne-Pathogen and Algae Monitoring System Using Digital Holographic Imaging" Council on Undergraduate Research 20th Annual Posters on the Hill, April 19-20, 2016, Capitol Hill, Washington, DC
606. S. Feng, MJ Woo, H. Kim, E. Shin, and A. Ozcan, "Game-based educational training of youths to diagnose malaria," 41st West Coast Biological Sciences Undergraduate Research Conference, Point Loma Nazarene University, April 9, 2016, San Diego, CA
607. A. Feizi, Y. Zhang, A. Greenbaum, R.Y. Chan, B. Berg, P. Chung, M. Wu, H. Ozkan, J. Guziak, M.C. Luong and A. Ozcan, "Portable and cost-effective yeast viability analysis using lens-free on-chip microscopy and machine learning," SPIE Photonics Europe, April 4-7, 2016, Brussels, Belgium, Paper # 9896-12
608. A. Ozcan, "Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools," Lab-on-a-Chip & Microfluidics Conference, Select Biosciences Meeting, March 16, 2016, Madrid, Spain (**Keynote Talk**)
609. A. Ozcan, "On-chip microscopy, sensing and diagnostics," SPIE Photonics West, Quantum Sensing, Nano Electronics and Photonics XIII, February 13-18, 2016, San Francisco, CA, Paper # 9755-27 (**Invited Talk**)
610. H. Ceylan Koydemir, I. I. Bogoch, D. Tseng, R.K.D. Ephraim, E. Duah, J. Tee, J.R. Andrews, and A. Ozcan, "Field-testing of a cost-effective mobile-phone based microscope for screening of Schistosoma haematobium", SPIE Photonics West 2016, Optics and Biophotonics in Low Resource Settings II, February 13-18, 2016, San Francisco, CA, Paper # 9699-23
611. Q. Wei, W. Luo, S. Chiang, T. Kappel, C. Mejia, D. Tseng, R. Y. Chan, E. Yan, H. Qi, F. Shabbir, H. Ozkan, S. Feng, and A. Ozcan, "Single DNA imaging and length quantification through a mobile-phone microscope," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 13-18, 2016, San Francisco, CA, Paper # 9699-2
612. Y. Zhang, S. Y. C. Lee, Y. Zhang, D. Furst, J. Fitzgerald and A. Ozcan, "Wide-field synovial fluid imaging using polarized lens-free on-chip microscopy for point-of-care diagnostics of gout and pseudogout", SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 13-18, 2016, San Francisco, CA, Paper # 9699-14
613. H. Ceylan Koydemir, Z. Gorocs, D. Tseng, B. Cortazar, S. Feng, R. Y. L. Chan, J. Burbano, E. McLeod, and A. Ozcan, "Rapid and sensitive detection of waterborne pathogens using machine

- learning on a smartphone based fluorescence microscope", SPIE Photonics West 2016, Optics and Biophotonics in Low Resource Settings II, Fluorescence and Polarization Methods, February 13-18, 2016, San Francisco, CA, Paper # 9699-11
614. B. Berg, B. Cortazar, D. Tseng, H. Ozkan, S. Feng, Q. Wei, R. Y. Chan, J. Burbano, Q. Farooqui, M. Lewinski, D. Di Carlo, O. B. Garner, and A. Ozcan, "Cellphone-based colorimetric microplate reader for point-of-care testing," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 13-18, 2016, San Francisco, CA, Paper # 9699-4
615. S. Feng, MJ Woo, H. Kim, E. Kim, S. J. Ki, L. Shao, and A. Ozcan, "A game-based crowdsourcing platform for rapidly training middle and high school students to perform biomedical image analysis," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings II, February 13-18, 2016, San Francisco, CA, Paper # 9699-28
616. W. Luo, Y. Zhang, A. Feizi, Z. Göröcs, A. Greenbaum, and A. Ozcan, "Wavelength scanning achieves pixel super-resolution in holographic on-chip microscopy," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings II, February 13-18, 2016, San Francisco, CA, Paper # 9699-9
617. K. Yanny, P. Wolf, H. Patel, Z. Gorocs, and A. Ozcan, "High-throughput Volumetric Detection of Giardia lamblia in Water Samples Using Real-time Holographic Microscopy," The 23rd Annual Southern California Conference for Undergraduate Research (SCCUR), Harvey Mudd College (November 21, 2015), California, USA
618. S. Kim, Q. Wei and A. Ozcan, "Fluorescence Imaging and Sizing of Single DNA Molecules with a Smartphone," The 23rd Annual Southern California Conference for Undergraduate Research (SCCUR), Harvey Mudd College (November 21, 2015), California, USA
619. A. Ozcan, "A computational look at nano-scale toward giga-pixel nanoscopy," IEEE International Conference on Nano/Molecular Medicine and Engineering - IEEE NanoMed Conference (November 15-18, 2015), Hawaii, USA (*Invited Talk*)
620. H.C. Koydemir and A. Ozcan, "Mobile-Phone Based Optical Imaging Platform for Rapid and Accurate Detection and Quantification of Waterborne Pathogens in Low Resource Settings", The Knowledge Foundation - Sensor Global Summit 2015, Sensor R&D – Advanced Materials, Design, Modeling & Fusion for Sensor Applications, (November 10 - 11, 2015), La Jolla, California, USA.
621. K. Yanny, H. Patel, P. Wolf, Z. Gorocs, and A. Ozcan, "Real-Time Lens-free Digital Holographic Microscopy", 2015 SACNAS (Society for Advancement of Chicanos and Native Americans in Science) National Conference (October 29-30, 2015), Gaylord National Convention Center, Washington, DC, USA
622. D. Kim, O. Garner, A. Ozcan, and D. Di Carlo, "Homogenous Amplified Digital Immunoassay," MicroTAS 2015 - The 19th International Conference on Miniaturized Systems for Chemistry and Life Sciences (October 25-29, 2015), Gyeongju, South Korea
623. S. Feng, R. Caire, B. Cortazar, M. Turan, A. Wong, and A. Ozcan, "Google Glass-based Rapid Analysis of Immuno-chromatographic Diagnostic Tests," OSA Frontiers in Optics (FiO) Conference (October 18-22, 2015), San Jose, California, USA
624. A. Ozcan, "Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics," OSA Frontiers in Optics (FiO) Conference (October 18-22, 2015), San Jose, California, USA (*Invited Talk*)
625. H.C. Koydemir, Z. Gorocs, D. Tseng, B. Cortazar, S. Feng, R. Yan Lok Chan, J. Burbano, E. McLeod, and A. Ozcan, "Mobile-phone Based Optical Microscopy and Machine Learning Platform for Rapid Detection and Quantification of Waterborne Pathogens in Low resource Settings", IEEE Global Humanitarian Technology Conference (GHTC), (October 8-11, 2015), Seattle, Washington, USA

626. Y. Zhang, A. Greenbaum, A. Feizi, P-L. Chung, W. Luo, S. Kandukuri, and A. Ozcan, "Computational Imaging of Pathology Slides Using Wide-Field On-Chip Microscopy," BMES (Biomedical Engineering Society) Annual Meeting, (October 7-10, 2015), Tampa, Florida, USA
627. D. Kim, A. Ozcan, O. Garner, and D. Di Carlo, "Homogenous Amplified Digital Immunoassay," BMES (Biomedical Engineering Society) Annual Meeting, (October 7-10, 2015), Tampa, Florida, USA
628. Q. Wei, W. Luo, S. Chiang, T. Kappel, C. Mejia, D. Tseng, R. Yan Lok Chan, E. Yan, H. Qi, F. Shabbir, H. Ozkan, S. Feng, and A. Ozcan, "Mobile-Phone Based Microscopy for Imaging and Sizing of Single DNA Molecules," BMES (Biomedical Engineering Society) Annual Meeting, (October 7-10, 2015), Tampa, Florida, USA
629. B. Cortazar, H. Ceylan Koydemir, D. Tseng, S. Feng, and A. Ozcan, "Non-destructive and Rapid Plant Chlorophyll Quantification Using Google Glass," BMES (Biomedical Engineering Society) Annual Meeting, (October 7-10, 2015), Tampa, Florida, USA
630. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics," 11th International Conference on Micro- to Nano-Photonics IV - ROMOPTO 2015, September 1-4, 2015, Bucharest, Romania (*Invited Talk*)
631. A. Ozcan, "Democratization of Next-Generation Imaging, Sensing, Diagnostics Tools through Computational Photonics," SPIE Optics & Photonics Conference, August 11, 2015, San Diego, CA, USA (*Plenary Talk*)
632. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics," American Association for Clinical Chemistry (AACC) Annual Meeting, July 26-30, 2015, Atlanta, Georgia, USA (*Invited Talk*)
633. A. Ozcan, "Lens-free On-chip Microscopy for Biomedical Imaging, Sensing and Diagnostics," Conference on Lasers and Electro-optics (CLEO-Europe, organized by OSA, IEEE and EPS), June 21-25, 2015, Munich, Germany (*Keynote Talk*)
634. A. Ozcan, "Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools through Computational Photonics," 3rd European Optical Society (EOS) Conference on Optofluidics, June 22-23, 2015, Munich, Germany (*Invited Talk*)
635. A.F. Coskun, A. Cetin, D. Etezadi, B. Galarreta, D.A. Alvarez, H. Altug, and A. Ozcan, "Optofluidic-Plasmonic Handheld Biosensor for High-Throughput and Label-Free Monitoring of Molecular Interactions," Conference on Lasers and Electro-optics (CLEO-Europe, organized by OSA, IEEE and EPS), June 21-25, 2015, Munich, Germany
636. H. Ceylan Koydemir, B. Cortazar, D. Tseng, S. Feng, and A. Ozcan, "Non-invasive and Field-based Quantification of Plant Chlorophyll Content Using Google Glass", 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA
637. W. Luo, A. Greenbaum, Y. Zhang, and A. Ozcan, "High-resolution On-chip Imaging using Synthetic Aperture," 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
638. S. Feng, M. Woo, S. Ki, L. Shao, K. Huang, Z. Wen, J. Wu, and A. Ozcan, "Game-based crowdsourcing platform for malaria diagnostics and training of diagnosticians," 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
639. Z. Gorocs, E. McLeod and A. Ozcan, "Fluorescence signal enhancement using vapor-condensed micro-reflectors", 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
640. C. Nguyen, Y. Mi, E. McLeod, T.U. Dincer, M. Veli, W. Luo, and A. Ozcan, "Nanoparticle and virus sizing through time-resolved lensfree holographic on-chip microscopy," 16th Annual

UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA

641. K. Yanny, H. Patel, P. Wold, Z. Gorocs, and A. Ozcan, "Real-Time Waterborne-Pathogen and Algae Monitoring Using Digital Holographic Imaging on a Chip", 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
642. A. Feizi, A. Greenbaum, Y. Chan, B. Berg, Y. Zhang, H. Ozkan, P. Chung, M. Wu, and A. Ozcan, "Portable and Cost-effective Cell Viability Analysis Using Lensfree On-Chip Imaging," 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
643. Q. Wei, W. Luo, S. Chiang, T. Kappel, C. Mejia, N. Nguyen, D. Tseng, R. Y. L. Chan, E. Yan, H. Qi, F. Shabbir, H. Ozkan, S. Feng, and A. Ozcan, "3D Printed Microscopy on a Mobile-phone for Imaging and Sizing of Single DNA Molecules," 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
644. Y. Zhang, A. Greenbaum, A. Feizi, P.L. Chung, W. Luo, S.R. Kandukuri, and A. Ozcan, "High-throughput Pathology Slide Imaging Using Lens-free On-chip Microscopy," 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
645. T-W. Su, I. Choi, J. Feng, K. Huang, W. Luo, F. Shabbir, and A. Ozcan, "High-throughput 3D analysis of animal sperm trajectories using holographic lensfree on-chip imaging," 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA
646. Q. Wei, W. Luo, S. Chiang, T. Kappel, C. Mejia, D. Tseng, R. Chan, E. Yan, H. Qi, F. Shabbir, H. Ozkan, S. Feng, and A. Ozcan, "Field-Portable Smartphone Microscopy Platform for Wide-field Imaging and Sizing of Single DNA molecules," OSA Conference on Lasers and Electro-optics (CLEO '15), May 10-15, 2015, San Jose, CA USA, Paper # ATh4J.6
647. E. McLeod, T.U. Dincer, M. Veli, Y.N. Ertas, C. Nguyen, W. Luo, A. Greenbaum, A. Feizi, and A. Ozcan, " Field-Portable Nanoparticle and Virus Sizing Enabled by On-Chip Microscopy and Vapor-Condensed Nanolenses," OSA Conference on Lasers and Electro-optics (CLEO '15), May 10-15, 2015, San Jose, CA USA, Paper # STu2K.6
648. A.F. Coskun, A. Cetin, B. Galarreta, D.A. Alvarez, H. Altug, and A. Ozcan, "Field-portable optofluidic plasmonic biosensor for wide-field and label-free monitoring of molecular interactions," OSA Conference on Lasers and Electro-optics (CLEO '15), May 10-15, 2015, San Jose, CA USA, Paper # STu1K.1
649. W. Luo, F. Shabbir, C. Gong, C. Gulec, J. Pigeon, J. Shaw, A. Greenbaum, T-W. Su, A.F. Coskun, S. Tochitsky, C. Joshi, and A. Ozcan, "High-throughput Lensfree Ion-Track Analysis for Laser-Driven Accelerators," OSA Conference on Lasers and Electro-optics (CLEO '15), May 10-15, 2015, San Jose, CA USA, Paper # STu2N.5
650. Y. Zhang, A. Greenbaum, A. Feizi, P-L. Chung, W. Luo, S. Kandukuri, and A. Ozcan, "Wide-field Imaging of Pathology Slides using Lensfree On-chip Microscopy," OSA Conference on Lasers and Electro-optics (CLEO '15), May 10-15, 2015, San Jose, CA USA, Paper # AW4J.6
651. Z. Göröcs, E. McLeod, S. Acharya and A. Ozcan, "Self-assembled Micro-reflectors for Signal Enhancement in Fluorescence Microscopy," OSA Conference on Lasers and Electro-optics (CLEO '15), May 10-15, 2015, San Jose, CA USA, Paper # STh4G.2
652. W. Luo, A. Greenbaum, Y. Zhang, and A. Ozcan, "High-resolution On-chip Imaging using Synthetic Aperture," OSA Conference on Lasers and Electro-optics (CLEO '15), May 10-15, 2015, San Jose, CA USA, Paper # STu2K.3
653. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics", International Semiconductor Science and Technology Conference (ISSTC), May 11-13, 2015, Izmir, Turkey (*Invited Talk*)

654. A. Ozcan, "A computational look at nano-scale toward giga-pixel nanoscopy," SPIE Defense, Security, and Sensing Conference, April 20-24, 2015, Baltimore, USA (*Invited Talk*)
655. H. Ceylan Koydemir, Z. Gorocs, D. Tseng, and A. Ozcan, "Rapid and sensitive detection and counting of Giardia lamblia cysts in water samples using a field portable and cost-effective fluorescence imaging platform on a mobile-phone", University of California, Global Health Day, April 18, 2015, University of California, Los Angeles, USA
656. Q. Wei, W. Luo, S. Chiang, and A. Ozcan, "Mobile-Phone Based Microscopy for Imaging and Sizing of Single DNA Molecules," University of California, Global Health Day, April 18, 2015, University of California, Los Angeles, USA
657. Y. Zhang, A. Greenbaum, A. Feizi, and A. Ozcan, "Wide-field Pathology Slide Imaging using Lens-free On-chip Microscopy," University of California, Global Health Day, April 18, 2015, University of California, Los Angeles, USA
658. A. Ozcan, "Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics", IEEE International Symposium on Biomedical Imaging (IEEE ISBI), Tutorial on Point-of-care Imaging Systems, April 16-19, 2015, New York, NY, USA (*Invited Talk - Tutorial*)
659. S. Feng and A. Ozcan, "Online Training and Educational Games for Malaria Diagnosis and Expert Scoring," 2015 Consortium of Universities for Global Health (CUGH) Global Health Conference, March 26-28, 2015, Boston, MA, USA – *The Lancet Global Health: [Meeting Abstract](#)*
660. Q. Wei, W. Luo, S. Chiang, T. Kappel, C. Mejia, D. Tseng, R. Y. L. Chan, E. Yan, H. Qi, F. Shabbir, H. Ozkan, S. Feng, and A. Ozcan, "Mobile Phone based Microscopy for Imaging and Sizing of Single DNA Molecules," ACS National Meeting, March 22-16, 2015, Denver, Colorado, USA
661. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics," 2nd International Conference on Label-Free Technologies, March 12-14, 2015, Cambridge, MA, USA (*Invited Talk*)
662. A. Ozcan, "Democratization of Next-Generation Imaging, Sensing and Measurement Tools Through Computational Photonics," Society for Brain Mapping and Therapeutics (SBMT), Annual Congress, March 6-8, 2015, Los Angeles, CA, USA (*Invited Talk*)
663. M.U. Daloglu, W. Luo, J. Feng, G. Ren and A. Ozcan, "Lensfree 3D Imaging of Sperms," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Organized by AAAS and NSF, February 19-21, 2015, Washington, DC, USA
664. A. Ozcan, "Democratization of Diagnostics Tools Through Computational Imaging and Sensing," AAAS Annual Meeting, Symposium on Affordable Diagnostics for All: High-Resolution Medical Imaging for Saving Lives, February 12-16, 2015, San Jose, CA, USA (*Invited Talk*)
665. W. Luo, F. Shabbir, C. Gong, C. Gulec, J. Pigeon, J. Shaw, A. Greenbaum, T-W. Su, A.F. Coskun, S.Y. Tochitsky, C.J. Joshi, and A. Ozcan, "High-throughput on-chip analysis of single ion tracks created by laser-driven plasma accelerators," SPIE Photonics West, Frontiers in Ultrafast Optics: Biomedical, Scientific, and Industrial Applications XV, February 7-12, 2015, San Francisco, CA, Paper # 9355-20
666. S.W. Feng, R. Caire, B. Cortazar, M. Turan, A. Wong, and A. Ozcan, "Google glass based immunochromatographic diagnostic test analysis," SPIE Photonics West, Optical Diagnostics and Sensing XV: Toward Point-of-Care Diagnostics, February 7-12, 2015, San Francisco, CA, Paper # 9332-21
667. E. McLeod, C. Nguyen, P. Huang, W. Luo, M. Veli, and A. Ozcan, "Tunable vapor-condensed nanolenses for label-free nanoscale imaging and sensing," SPIE Photonics West, Nanoscale

- Imaging, Sensing, and Actuation for Biomedical Applications XII, February 7-12, 2015, San Francisco, CA, Paper # 9337-16 (*Invited Talk*)
668. Z. Göröcs, E. McLeod, S. Acharya, and A. Ozcan, “Fluorescent signal enhancement using vapor-condensed micro-reflectors,” SPIE Photonics West, Advanced Fabrication Technologies for Micro/Nano Optics and Photonics VIII, February 7-12, 2015, San Francisco, CA, Paper #9374-38
669. Y. Zhang, A. Greenbaum, A. Feizi and A. Ozcan, “Pathology slide imaging using wide-field lensfree microscopy,” SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7-12, 2015, San Francisco, CA, Paper # 9314-20
670. H.C. Koydemir, Z. Gorocs, E. Mcleod, D. Tseng and A. Ozcan, “Field Portable Fluorescence Microscopy for Detection of Giardia lamblia Cyst in Water Samples,” SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7-12, 2015, San Francisco, CA, Paper # 9314-28
671. S.W. Feng, M. Woo, K. Chandramouli, and A. Ozcan, “A game-based platform for crowd-sourcing biomedical image diagnosis and standardized remote training and education of diagnosticians,” SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7-12, 2015, San Francisco, CA, Paper # 9314-19
672. E. McLeod, T. U. Dincer, M. Veli, Y. N. Ertas, C. Nguyen, W. Luo, and A. Ozcan, “Field-portable and cost-effective holographic device for label-free nanoparticle and virus imaging and sizing,” SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7-12, 2015, San Francisco, CA, Paper # 9314-5
673. Q. Wei, R. Nagi, K. Sadeghi, S. Feng, E. Yan, S. J. Ki, R. Caire, D. Tseng, A. Ozcan, “Smartphone Based Spatiotemporal Mapping of Mercury(II) Ions Using a Colorimetric Gold Nanoparticle Assay”, SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7-12, 2015, San Francisco, CA, Paper # 9314-18
674. B. Cortazar, H.C. Koydemir, D. Tseng, S. W. Feng, and A. Ozcan, "Field quantification of plant chlorophyll content using Google Glass," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7-12, 2015, San Francisco, CA, Paper # 9314-4
675. W. Luo, A. Greenbaum, Y. Zhang, and A. Ozcan, “Lensfree on-chip imaging using synthetic aperture,” SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XXII, February 7-12, 2015, San Francisco, CA, Paper # 9330-2
676. T-W. Su, I. Choi, J. Feng, K. Huang, W. Luo, and A. Ozcan, “High-throughput on-chip analysis of 3D swimming patterns of animal sperms using holographic lensfree imaging”, SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XXII, February 7-12, 2015, San Francisco, CA, Paper # 9330-24
677. A. Ozcan, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics,” Biophysical Society Annual Meeting, Workshop on Microfluidics Tools for Studying Molecules and Cells, February 7-11, 2015, Baltimore, MD, USA (*Invited Talk*)
678. A. Ozcan, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics,” Gordon Research Conference (GRC), Physical Virology, January 25-30, 2015, Ventura, CA, USA (*Invited Talk*)
679. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", IEEE EMBS Micro and Nanotechnology in Medicine (MNM) Conference, December 8-12, 2014, Oahu, Hawaii, USA (*Invited Talk*)
680. E. McLeod, C. Nguyen, P. Huang, W. Luo, M. Veli, and A. Ozcan, “Vapor-Condensed Nanolenses for Label-Free Nanoparticle and Virus Imaging Using Lensfree Holographic On-Chip Microscopy,” Materials Research Society, MRS Fall Meeting, Boston, MA (November 30 – December 5, 2014)

681. C. Nguyen, E. McLeod, P. Huang, W. Luo, M. Veli, and A. Ozcan, "Vapor-Condensation of Tunable Nanolenses for Cost-Effective and Portable Lens-free Microscopes," Southern California Conference for Undergraduate Research (SCCUR), November 22, 2014, California State University, Fullerton, USA
682. A.E. Cetin, A.F. Coskun, B.C. Galarreta, M. Huang, D. Herman, A. Ozcan and H. Altug, "Hand-Held and High-Throughput Biosensor with Plasmonics and Lens-Free Imaging", OSA Latin America Optics and Photonics Conference, November 16-21, 2014, Cancun, Mexico, Paper # LTh1D.3
683. I. Pushkarsky, Y. Lyb, W. Weaver, T-W. Su, O. Mudanyali, A. Ozcan, and D. Di Carlo, "On-chip Cell Motility Analysis using Lensfree Holographic Microscopy," MicroTAS 2014 - The 18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, San Antonio, Texas, USA (October 26-30, 2014)
684. H.C. Koydemir, Z. Gorocs, E. McLeod, D. Tseng, A. Ozcan, "Waterborne pathogen detection using a smart phone based fluorescent microscope," MicroTAS 2014 - The 18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, San Antonio, Texas, USA (October 26-30, 2014)
685. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics," Workshop on Diagnostics Technologies for Point of Care and Resource Limited Settings, MicroTAS 2014 - The 18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, San Antonio, Texas, USA (October 26, 2014)
686. Z. Göröcs, Y. Ling, M. Yu, D. Karahalios, K. Mogharabi, K. Lu, Q. Wei, and A. Ozcan, "Ultra-Wide Field-Of-View Gigapixel Fluorescent Imaging System Using A Modified Flatbed Scanner," BMES (Biomedical Engineering Society) Annual Meeting, (October 22-25, 2014), San Antonio, Texas, USA
687. A.P. Gifford, H.C. Koydemir, and A. Ozcan, "Automated Detection of Giardia lamblia Cysts and Cryptosporidium parvum Oocysts in Microscopy Images Using Digital Image Processing," BMES (Biomedical Engineering Society) Annual Meeting, (October 22-25, 2014), San Antonio, Texas, USA
688. Q. Wei, R. Nagi, K. Sadeghi, S. Feng, D. Tseng, and A. Ozcan, "Quantitative Mercury Sensing and Spatiotemporal Mapping Using a Smartphone," BMES (Biomedical Engineering Society) Annual Meeting, (October 22-25, 2014), San Antonio, Texas, USA
689. A. Ozcan, "Next Generation Micro-analysis and Diagnosis Using Computational Imaging, Crowd-sourcing and Gaming", 5th International Eurasian Hematology Congress, October 15, 2014, Antalya, Turkey (**Keynote Talk**)
690. Q. Wei and A. Ozcan, "Smartphone-Based Imaging Devices for Nano-Object and Small Molecule Detection in Resource-Limited Settings", IEEE Global Humanitarian Technology Conference (GHTC), (October 10-13, 2014), San Jose, CA, USA
691. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools", Strategies in Biophotonics Conference, September 11, 2014, Boston, MA USA (**Keynote Talk**)
692. A. Ozcan, "Computational Microscopy, Sensing and Diagnostics," SPIE Optics and Photonics Conference, August 18, 2014, San Diego, CA USA, Paper # 9166-18 (**Invited Talk**)
693. S. Feng, R. Caire, B. Cortazar, M. Turan, A. Wong, and A. Ozcan, "Google Glass based immunochromatographic diagnostic test analysis," ACS National Meeting, August 10-14, 2014, San Francisco, CA
694. A. Ozcan, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," Gordon Research Conference (GRC), Lasers in Medicine & Biology, July 13-18, 2014, Holderness, NH (**Invited Talk**)

695. A. Ozcan, "Democratization of Diagnostics and Measurement Tools through Computational Imaging and Sensing", OSA Optics & Photonics Congress, Imaging and Applied Optics, July 13-17, 2014, Seattle, WA USA (*Invited Talk*)
696. Q. Wei, H. Qi, W. Luo, D. Tseng, L.A. Bentolila, T. Wu, R. Sun, and A. Ozcan, "Smartphone-based Microscopy for Imaging of Single Fluorescent Nanoparticles and Viruses", 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA
697. S. Feng, M.J. Woo, K. Chandramouli, and A. Ozcan, "BioGames: A Game-based Framework for Crowdsourcing Biomedical Image Analysis and Training of Diagnosticians," 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, CA, USA
698. S. Feng, R. Caire, B. Cortazar, M. Turan, A. Wong, and A. Ozcan, "Google Glass Based Immunochromatographic Diagnostic Test Analysis," 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, CA, USA
699. I. Pushkarsky, Y. Lyb, W. Weaver, T-W. Su, O. Mudanyali, A. Ozcan, and D. Di Carlo "Automated single-cell motility analysis on a chip using lensfree microscopy" 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA
700. Z. Göröcs, Y. Ling, M. D. Yu, D. Karahalios, K. Mogharabi, K. Lu, Q. Wei and A. Ozcan, "Fluorescent Flatbed Scanner: An Ultra-Large Field-of-View Gigapixel Fluorescent Imaging System" 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA
701. W. Luo, A. Greenbaum, S.O. Isikman, A.F. Coskun, and A. Ozcan, "Billion-Voxel Optical Tomography using Lensfree Holographic On-Chip Imaging", 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA
702. H.C. Koydemir, Z. Gorocs, E.R. McLeod, D. Tseng and A. Ozcan, "Smartphone enabled waterborne pathogen detection using fluorescence microscopy", 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA
703. Q. Wei, R. Nagi, K. Sadeghi, S. Feng, D. Tseng, and A. Ozcan, "Spatio-temporal Mapping of Mercury Contamination using a Smartphone", 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA
704. E. McLeod, C. Nguyen, P. Huang, W. Luo, M. Veli, and A. Ozcan, "Self-assembled Liquid Nanolenses for Wide-field Nanoparticle and Virus Imaging," 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA
705. Q. Wei, H. Qi, W. Luo, D. Tseng, L. A. Bentolila, T.-T. Wu, R. Sun, and A. Ozcan, "Single Nanoparticle and Virus Detection Using a Smart Phone Based Fluorescence Microscope", OSA Conference on Lasers and Electro-optics (CLEO '14), June 8-13, 2014, San Jose, CA USA, Paper # AW3L.1
706. A. Ozcan, "Computational Imaging and Sensing for Biophotonics Applications", OSA Conference on Lasers and Electro-optics (CLEO '14), June 8-13, 2014, San Jose, CA USA (*Invited Talk*)
707. A.E. Cetin, A.F. Coskun, B.C. Galarreta, M. Huang, D. Herman, A. Ozcan and H. Altug, "Hand-Held Plasmonic Biosensor for High-Throughput Sensing for Point-of-Care Applications", OSA Conference on Lasers and Electro-optics (CLEO '14), June 8-13, 2014, San Jose, CA USA, Paper # FM3K.2.
708. A. Ozcan, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools using Mobile Phones," SPIE Translational Biophotonics Conference, Rice University, May 20, 2014, Houston, TX (*Invited Talk*)

709. A. Ozcan, "Computational Imaging, Sensing and Diagnostics for Telemedicine and Global Health" American Society of Microbiology (ASM) General Meeting, May 19, 2014, Boston, MA (*Invited Talk*)
710. A. Ozcan, "Computational Microscopy, Sensing and Diagnostics," MicroNano System Workshop, Uppsala, Sweden (May 15, 2014) (*Plenary Talk*)
711. A. Ozcan, "BioGames: A Platform for Crowd-sourced Biomedical Image Analysis and Tele-diagnosis," Southern California Academy of Sciences Annual Meeting, May 2-3, 2014, Camarillo, CA USA
712. A. Greenbaum, A. Feizi, N. Akbari, and A. Ozcan, "Field-portable and cost-effective color microscopy for telemedicine," University of California, Global Health Day, April 26, 2014, University of California, Davis, USA
713. A. Ozcan, "Computational Microscopy, Sensing and Diagnostics," XII Conference on Optical Chemical Sensors and Biosensors (EUROPT(R)ODE), Athens, Greece, April 15, 2014 (*Plenary Talk*)
714. S. Feng, S. Mavandadi, F. Yu, R. Caire, V. Phillipe, R. Yu, A. Ozcan, "BigFoot: A Foot Monitoring Platform Using Flatbed Scanners," Diabetic Foot Global Conference (DFCon), March 20-22, 2014, Los Angeles, CA, USA
715. A.F. Coskun, R. Nagi, K. Sadeghi, S. Phillips and A. Ozcan, "Smart-phone based albumin testing in urine," SPIE Photonics West, Frontiers in Biological Detection: From Nanosensors to Systems: Novel Imaging Technologies, February 2014, San Francisco, CA, paper #8933-21
716. E.R. McLeod, P. Huang, M. Veli, S. Acharya, W. Luo and A. Ozcan, "Self-assembly via condensation of polymer liquid nanolenses for wide-field nanoparticle and virus imaging," SPIE Photonics West, Advanced Fabrication Technologies for Micro/Nano Optics and Photonics VII, February 2014, San Francisco, CA, paper # 8974-9
717. Q. Wei, E. McLeod, H. Qi, Z. Wan, R. Sun, and A. Ozcan, "Plasmonic Nanoparticle-Enhanced Lensfree Holographic Cytometry," SPIE Photonics West, Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications X, February 2014, San Francisco, CA, paper #8954-10
718. W. Luo, A. Greenbaum, S. O. Isikman, A. F. Coskun, and A. Ozcan, "Giga-pixel On-chip Microscopy and Tomography using Lensfree Holography with Color Image Sensors," SPIE Photonics West, Design and Quality for Biomedical Technologies VI: Biomedical Imaging Technologies II, February 2014, San Francisco, CA, paper #8936-32
719. A. Greenbaum, A. Feizi, N. Akbari and A. Ozcan, "Computational lensfree color microscopy for wide field-of-view imaging," SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XXI, February 2014, San Francisco, CA, paper #8949-15
720. Z. Göröcs, Y. Ling, M. Dai Yu, D. Karahalios, K. Mogharabi, K. Lu and A. Ozcan, "Fluorescent imaging over an ultralarge field-of-view of 532 cm² using a flatbed scanner" SPIE Photonics West, Optical Diagnostics and Sensing XIV: Toward Point-of-Care Diagnostics, February 2014, San Francisco, CA, paper #8591-12
721. A. Ozcan, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," International Conference on Electronics Computer and Computation (ICECCO), Ankara, Turkey (November 7-9, 2013) (*Plenary Talk*)
722. A. Ozcan, "Computational Imaging, Sensing and Diagnostics," MicroTAS 2013 - The 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Freiburg, Germany (October 27-31, 2013) (*Plenary Talk*)
723. A. Ozcan, "Smartphone based microscopy, biomedical sensing and diagnostics," MicroTAS 2013 - The 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Workshop on Point-of-Care Platforms for Clinical Diagnostics, Freiburg, Germany (October 27, 2013) (*Invited Talk*)

724. A. Ozcan, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," IEEE Global Humanitarian Technology Conference (GHTC), San Jose, CA (October 21, 2013) (*Plenary Talk*)
725. A. Greenbaum, N. Akbari, A. Feizi and A. Ozcan, "Field-Portable Lensfree Holographic Color Microscope for Telemedicine Applications," IEEE Global Humanitarian Technology Conference (GHTC), San Jose, CA (October 22, 2013)
726. A. Ozcan, "Computational Imaging On a Chip," OSA Frontiers in Optics (FiO), Orlando, Florida October 7, 2013 (*Invited Talk*)
727. W. Luo, C. Gong, F. Shabbir, C. Gulec, J. Pigeon, J. Shaw, A. Greenbaum, T. Su, A. F. Coskun, S. Tochitsky, C. Joshi, and A. Ozcan, "High-throughput Analysis of CR39 Detectors using Lensfree Holographic On-Chip Microscopy," North American Particle Accelerator Conference (NA-PAC'13) (September 29 - October 4, 2013), Pasadena, CA USA, Contribution ID# 2345
728. E. McLeod and A. Ozcan, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," The Annual Meeting of The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) – SciX Conference, October 3, 2013, Milwaukee, WI (*Invited Talk*)
729. J. Weidling, S. Isikman, A. Greenbaum, A. Ozcan, and E. Botvinick, "Can Capillaries Grown in 3D Culture be Imaged without the Use of an Optical Lens System?" BMES (Biomedical Engineering Society) Annual Meeting, (September 25-28, 2013), Seattle, WA, USA
730. H. Zhu, I. Sencan, J. Wong, S. Dimitrov, D. Tseng and A. Ozcan, "Blood Analysis on a Cellphone," BMES (Biomedical Engineering Society) Annual Meeting, (September 25-28, 2013), Seattle, WA, USA
731. T-W. Su, L. Xue, and A. Ozcan, "Computational Imaging and High-throughput 3D Tracking of Human Sperms," BMES (Biomedical Engineering Society) Annual Meeting, (September 25-28, 2013), Seattle, WA, USA
732. A. Greenbaum, N. Akbari, and A. Ozcan, "Computational Field-Portable Microscope for On-Chip Imaging of Confluent Samples," BMES (Biomedical Engineering Society) Annual Meeting, (September 25-28, 2013), Seattle, WA, USA
733. S. Mavandadi, S. Feng, F. Yu, S. Dimitrov, R. Yu, and A. Ozcan, "BioGames – A crowd-sourced gaming platform for distributed tele-pathology and training of experts," BMES (Biomedical Engineering Society) Annual Meeting, (September 25-28, 2013), Seattle, WA, USA
734. W. Luo, A. Greenbaum, B. Khademhosseini, T-W. Su, A.F. Coskun and A. Ozcan, "Enhanced Space-Bandwidth Product In Lensfree On-Chip Microscopy," IEEE Photonics Conference 2013, (September 8-12, 2013), Seattle, WA, USA
735. T-W. Su, I. Choi, J. Feng, K. Huang, E. McLeod, and A. Ozcan, "Lensfree Holographic Imaging Discovers Chiral Ribbon Trajectories of Sperms," IEEE Photonics Conference (September 8-12, 2013) Seattle, WA, US
736. E. McLeod, W. Luo, O. Mudanyali, A. Greenbaum, and A. Ozcan, "Giga-pixel nanoimaging using computational on-chip microscopy," IEEE Photonics Conference (September 8-12, 2013) Seattle, WA, USA
737. Q. Wei, E. McLeod, H. Qi, Z. Wan, R. Sun, and A. Ozcan. "Lensfree Holographic Cytometry Using Plasmonic Nanoparticles," IEEE Photonics Conference 2013, (September 8-12, 2013), Seattle, WA, USA
738. A. Ozcan, "Lensfree Computational Microscopy," SPIE Optics and Photonics Conference, August 28, 2013, San Diego, CA USA, Paper # 8858-42 (*Invited Talk*)
739. A. Ozcan, "Computational On-chip Imaging," OSA Computational Optical Sensing and Imaging (COSI), June 23-27 2013, Arlington, Virginia, USA (*Invited Talk*)

740. A. F. Coskun, J. Wong, D. Khodadadi, R. Nagi, A. Tey, and A. Ozcan, "Food Allergen Testing on a Smart Phone", 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
741. I. Sencan, A. F. Coskun, U. Sikora, A. Ozcan, "Spectral Demultiplexing in Computational On-chip Microscopy", 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
742. A. Greenbaum, A. Feizi, N. Akbari and A. Ozcan, "Computational Super-resolved Color Microscopy on a Chip", 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
743. H. Zhu, I. Sencan, J. Wong, S. Dimitrov, D. Tseng, A. Ozcan, "Blood Analysis on a Smart Phone", 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
744. S. Mavandadi, S. Feng, F. Yu, S. Dimitrov, R. Yu, U. Sikora, O. Yaglidere, S. Padmanabhan, A. Ozcan, "BioGames for Crowd-sourced Tele-Pathology, Diagnosis and Medical Expert Training," 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
745. E. McLeod, W. Luo, O. Mudanyali, A. Greenbaum, A. Ozcan, "Giga-pixel lensfree computational imaging of nano-objects on a chip", 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
746. Q. Wei, E. McLeod, H. Qi, Z. Wan, R. Sun, A. Ozcan, "Lensfree Holographic Cytometry Using Plasmonic Nanoparticles", 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
747. A. Greenbaum, W. Luo, B. Khademhosseini, T. Su, A.F. Coskun, and A. Ozcan, "Increasing Space-Bandwidth Product In Pixel Super-Resolved Computational On-Chip Microscopy", 14th Annual UC Systemwide Bioengineering Symposium, June 19-21, 2013, University of California, San Diego, USA
748. O. Mudanyali, E. McLeod, W. Luo, A. Greenbaum, A. F. Coskun, Y. Hennequin, C. Allier, and A. Ozcan, "High-throughput Imaging of Single Viruses using Self-assembled Nano-lenses and On-Chip Holography," OSA Conference on Lasers and Electro-optics (CLEO '13) (June 9-14, 2013), San Jose, CA USA, Paper # AW11.6
749. S. A. Arpali, C. Arpali, A. F. Coskun, H. H. Chiang and A. Ozcan, "High-throughput screening of blood samples based on structured illumination on-chip imaging," OSA Conference on Lasers and Electro-optics (CLEO '13) (June 9-14, 2013), San Jose, CA USA, Paper # CTh3I.1
750. A. F. Coskun, J. Wong, D. Khodadadi, R. Nagi, A. Tey and A. Ozcan, "Cell-Phone Based Food Allergen Testing," OSA Conference on Lasers and Electro-optics (CLEO '13) (June 9-14, 2013), San Jose, CA USA, Paper # CTu2M.7
751. E. McLeod, O. Mudanyali, W. Luo, A. Greenbaum, A. F. Coskun, Y. Hennequin, C. Allier, and A. Ozcan, "Self-Assembled Nanolens Formation for Widefield Computational Imaging of Nanoparticles on a Chip," OSA Conference on Lasers and Electro-optics (CLEO '13) (June 9-14, 2013), San Jose, CA USA, Paper # CTh3I.6
752. A. Ozcan, "Computational On-Chip Imaging Toward Telemedicine Applications," OSA Conference on Lasers and Electro-optics (CLEO '13) (June 9-14, 2013), San Jose, CA USA, Paper # AM3M.1 (*Invited Talk*)
753. A. Ozcan, "Lensfree Computational Imaging," SPIE Optical Metrology Conference, May 16, 2013, Munich, Germany (*Invited Talk*)
754. A. Ozcan, "Cell phone-based imaging and sensing architectures," SPIE Defense, Security, and Sensing Conference, April 29 2013, Baltimore, USA (*Invited Talk*)

755. W. Luo, A. Greenbaum and A. Ozcan, "Giga-Pixel Imaging on a Chip: High Numerical Aperture Lensfree Microscopy Over a Wide Field-of-View", IEEE International Symposium on Biomedical Imaging (IEEE ISBI), April 7-11, 2013, San Francisco, CA, Paper# TuBT3.2
756. A. Ozcan, "Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications" IEEE 8th International Conference on Intelligent Sensors, Sensor Networks and Information Processing (IEEE ISSNIP), April 5 2013, Melbourne, Australia (**Plenary Talk**)
757. A. Ozcan, "Photonics-based Telemedicine Technologies toward Smart Global Health Systems," AAAS Annual Meeting, February 16, 2013, Boston, Massachusetts, USA (**Invited Talk**)
758. A. Ozcan, "Computational microscopy, sensing, and diagnostics on a cellphone," IS&T - SPIE Electronic Imaging Conference, San Francisco, California (February 5, 2013) (**Invited Talk**)
759. S. Mavandadi, S. Dimitrov, S. Feng, F. Yu, R. Yu, U. Sikora, and A. Ozcan, "Crowd-sourced BioGames Toward Distributed Microscopic Image Analysis and Tele-Diagnosis," *SPIE Photonics West*, Optical Diagnostics and Sensing XIII: Toward Point-of-Care Diagnostics, February 2013, San Francisco, CA, paper # 8591-20
760. O. Mudanyali, S. Dimitrov, U. Sikora, S. Padmanabhan, I. Navruz and A. Ozcan, "Universal rapid diagnostic test (RDT) reader on a cell-phone for real-time spatio-temporal mapping of infectious diseases," SPIE Photonics West, Advanced Biomedical and Clinical Diagnostic Systems XI, February 2013, San Francisco, CA, Paper # 8572-48
761. W. Luo, A. Greenbaum, A. F. Coskun, U. Sikora and A. Ozcan, "High Numerical Aperture (NA=0.9) and Wide-field On-Chip Microscopy," SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XX, February 2013, San Francisco, CA, paper # 8589-9
762. I. Sencan, U. Sikora, and A. Ozcan, "Lensfree multispectral holographic microscopy using sunlight," SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XX, February 2013, San Francisco, CA, paper # 8589-28
763. A. Ozcan, "Lensfree on-chip microscopy and tomography toward telemedicine applications," *SPIE Photonics West*, Microfluidics, BioMEMS, and Medical Microsystems XI, February 2013, San Francisco, CA, paper # 8615-25 (**Invited Talk**)
764. O. Mudanyali, E. McLeod, W. Luo, A. Greenbaum, A. F. Coskun, J. Dinten, Y. Hennequin, C. P. Allier, and A. Ozcan, "Single nanoparticle and virus imaging using computational on-chip microscopy," SPIE Photonics West, Frontiers in Biological Detection: From Nanosensors to Systems, February 2013, San Francisco, CA, Paper # 8570-22
765. A. Ozcan, "Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications," The Society for Laboratory Automation and Screening (SLAS) Annual Conference, Orlando, Florida (January 16, 2013) (**Invited Talk**)
766. A. Ozcan, "Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications," SPIE 1st International Biophotonics Meeting in Israel, Tel Aviv, Israel (December 9-11, 2012) (**Plenary Talk**)
767. S. Mavandadi, S. Feng, F. Yu, S. Dimitrov, R. Yu, and A. Ozcan, "BioGames: A Crowd-sourced Tele-diagnosis Platform," *mHealth Summit*, (December 3-5, 2012), Washington DC
768. H. Zhu, U. Sikora, and A. Ozcan, "Sensitive and specific detection of *Escherichia coli* on a cell-phone," *mHealth Summit*, (December 3-5, 2012), Washington DC
769. K-W. Huang, T-W. Su, A. Ozcan, and P-Y. Chiou, "Optoelectronic Tweezers Integrated with Lensfree Holographic Microscopy for Large-area Cell Detection and Manipulation," IEEE NanoMedicine (NanoMed) Conference, Bangkok, Thailand (November 4-7, 2012) (**Best Paper Award**)
770. O. Mudanyali, S. Dimitrov, U. Sikora, S. Padmanabhan, I. Navruz and A. Ozcan, "Smart Rapid Diagnostics Test Reader running on a Cell-Phone for Real-time Mapping of Epidemics,"

- mHealthSys Workshop - Association for Computing Machinery (ACM) SenSys, Toronto, Canada, (November, 6 2012) (*Invited Contribution*)
771. P. A. Sandoz, A. F. Coskun, A. J. Chung, W. M. Weaver, O. Adeyiga, D. Khodadadi, A. Ozcan, D. Di Carlo, "Digital readout platform for water-in-oil droplet immunoassays running on a cell-phone for point of care viral load sensing," MicroTAS 2012 - The 16th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Okinawa, Japan (October 28 - November 1, 2012)
772. H. Zhu, U. Sikora, and A. Ozcan, "Quantum dot based sandwich immunoassay for sensitive detection of Escherichia coli on a cell-phone," BMES (Biomedical Engineering Society) Annual Meeting, (October 24-27, 2012), Atlanta, Georgia, USA
773. T-W. Su, L. Xue, and A. Ozcan, "Lensfree 3D Tracking of Sperms at High-throughput," OSA Frontiers in Optics (FiO), Rochester, NY (October 14-18, 2012) (*Postdeadline Paper*)
774. A. Ozcan, "Computational Imaging Tools for Point-of-care Diagnostics," IEEE Engineering in Medicine and Biology Society (EMBC'12), San Diego, CA, USA (August 28 - September 1, 2012) (*Invited Presentation*)
775. A. Ozcan, "Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications," OSA Imaging Systems and Applications (IS) & Applied Industrial Optics: Spectroscopy, Imaging and Metrology (AIO) (June 24-28, 2012), Monterey, CA USA (*Invited Presentation*)
776. S. Mavandadi, S. Dimitrov, S. Feng, F. Yu, U. Sikora, O. Yaglidere, S. Padmanabhan, K. Nielsen, A. Ozcan, "Crowd-sourced Games Toward Distributed Medical Image Analysis and Tele-Diagnosis", 13th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2012, University of California, Berkeley, USA
777. A.F. Coskun, D.R. Gossett, A.J. Mach, D. Herman, Y. Suh, D. Di Carlo, and A. Ozcan, "Integration of Lensfree On-Chip Fluorescent Imaging with Lens-based Microscopy toward High-throughput Rare-cell Analysis", 13th Annual Systemwide Bioengineering Symposium, June 21- 23, 2012, University of California, Berkeley, USA
778. O. Mudanyali, S. Dimitrov, U. Sikora, S. Padmanabhan, I. Navruz, and A. Ozcan, "Cell-phone based Rapid-Diagnostic-Test Reader Platform for Spatio-temporal Mapping of Diseases", 13th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2012, University of California, Berkeley, USA
779. A. Greenbaum, U. Sikora and A. Ozcan, "Giga-Pixel Lensfree Computational Microscopy on a Chip", 13th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2012, University of California, Berkeley, USA
780. P.A. Sandoz, A.F. Coskun, A.J. Chung, W.M. Weaver, O. Adeyiga, D. Khodadadi, A. Ozcan, and D. Di Carlo, "Digital readout platform for water-in-oil droplet immunoassays running on a cell-phone for point of care viral load sensing", 13th Annual Systemwide Bioengineering Symposium, June 21- 23, 2012, University of California, Berkeley, USA
781. S.O. Isikman, W. Bishara, H. Zhu, A. Ozcan, "Optofluidic Microscopy and Tomography on a Chip", 13th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2012, University of California, Berkeley, USA
782. H. Zhu, U. Sikora, and A. Ozcan, "Quantum-dot based sandwich immunoassay for sensitive detection of Escherichia coli on a cell-phone," 13th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2012, University of California, Berkeley, USA
783. I. Sencan, A. F. Coskun, T. Su, D. G. Herman, Y. Suh, A. Ozcan, "High-throughput Color Imaging on a Chip Using Sparse Signal Recovery", 13th Annual UC Systemwide Bioengineering Symposium, June 21-23, 2012, University of California, Berkeley, USA
784. A. Greenbaum and A. Ozcan, "Lensfree Imaging of Dense Samples using Holograms Recorded at Multiple Heights," OSA Conference on Lasers and Electro-optics (*CLEO '12*) (May 6-11,

- 2012), San Jose, CA USA, Paper # CF11.1
785. H. Zhu, S. Mavandadi, A.F. Coskun , O.Yaglidere and A. Ozcan, “Fluorescent flow-cytometry on a cell-phone,” OSA Conference on Lasers and Electro-optics (*CLEO '12*) (May 6-11, 2012), San Jose, CA USA, Paper # CF11.2
786. A. Ozcan, “Lensfree On-Chip Microscopy and Cytometry Tools for Telemedicine Applications,” OSA Conference on Lasers and Electro-optics (*CLEO '12*), Technology Transfer Showcase (May 6-11, 2012), San Jose, CA USA
787. A. Greenbaum, U. Sikora and A. Ozcan, “Field-Portable Pixel Super-Resolution Microscopy of Dense Samples using Lensfree Holograms Recorded at Multiple Heights”, OSA Digital Holography and Three Dimensional Imaging, (April 28 - May 2, 2012) Miami, USA
788. A. Ozcan, “Lensfree on-chip microscopy and tomography” SPIE Defense, Security, and Sensing Conference, April 25 2012, Baltimore, USA, Paper # 8373-50 (*Invited Talk*)
789. A. Ozcan, “New imaging and sensing architectures for telemedicine and global healthcare” SPIE Defense, Security, and Sensing Conference, April 23 2012, Baltimore, USA, Paper # 8371A-1 (*Invited Talk*)
790. A. Greenbaum, U. Sikora, and A. Ozcan, "On-chip imaging of dense samples using pixel super resolution based multi-height lensfree microscopy," SPIE Defense, Security, and Sensing Conference, (April 23-27 2012) Baltimore, USA, Paper # 8366-26
791. O. Mudanyali, D. Tseng, C. Oztoprak, S. O. Isikman, I. Sencan, O. Yaglidere, and A. Ozcan, "Lab-on-a-cellphone: emerging platform for telemedicine global health," SPIE Defense, Security, and Sensing Conference, (April 23-27 2012) Baltimore, USA, Paper # 8371A-2
792. S. O. Isikman, W. Bishara, O. Mudanyali, U. Sikora, O. Yaglidere, A. Ozcan, “On-chip Blood Analysis using Lensless Microscopy”, SPIE Defense, Security and Sensing Conference, (April 23-27, 2012) Baltimore, USA, paper # 8371A-3
793. T.-W. Su, A. Erlinger, D. Tseng , and A. Ozcan, “Field-portable Fertility Test using Lensless Microscopy on a Chip,” SPIE Defense, Security, and Sensing Conference, (April 23-27 2012) Baltimore, USA, Paper # 8371A-4
794. B. Khademhosseini, G. Biener, I. Sencan, and A. Ozcan, " Lens-free, Near-infrared (NIR) Imaging Using Structured Substrates and Compressive Sensing, " SPIE Defense, Security, and Sensing Conference, (April 23-27 2012) Baltimore, USA , Paper # 8373-95
795. H. Zhu, S. Mavandadi, A.F. Coskun , O.Yaglidere, and A. Ozcan, "Fluorescent Microscopy and Imaging Cytometry on a Cell-phone," University of California, Global Health Day, February 4, 2012, University of California, Berkeley, USA
796. A. Greenbaum, U. Sikora, O. Mudanyali and A. Ozcan, "Field-portable wide-field microscopy for imaging Papanicolaou smears," University of California, Global Health Day, February 4, 2012, University of California, Berkeley, USA
797. O. Mudanyali, W. Bishara, C. Oztoprak, D. Tseng, A. Erlinger, and A. Ozcan, "High-Throughput Screening Of Water Quality Using Field-Portable Lensfree Computational Microscopes", University of California, Global Health Day, February 4, 2012, University of California, Berkeley, USA
798. S. O. Isikman, W. Bishara, O. Mudanyali, U. Sikora, O. Yaglidere, and A. Ozcan, "Field-portable and Cost-effective Lensfree Microscopy for On-chip Blood Analysis and Wide-field Imaging of Malaria Slides", University of California, Global Health Day, February 4, 2012, University of California, Berkeley, USA
799. S.M. Nadipuram, O. Mudanyali, A. Ozcan and K. Nielsen, “Novel Lensfree Microscope Technology Based On Shadow Imaging For The Detection Of Giardia Lamblia Oocysts In Stool,” American Federation for Medical Research, Western Regional Meeting, Carmel, CA, USA (January 25-28, 2012)

800. O. Mudanyali, W. Bishara, S. Nadipuram, U. Sikora, T. Su, O. Yaglidere, R. Ramasawmy, K. Nielsen and A. Ozcan, "Imaging Of Malaria Parasites Using Portable Lensfree Microscopes," American Federation for Medical Research, Western Regional Meeting, Carmel, CA, USA (January 25-28, 2012)
801. A. Ozcan, "Lensless Microscopy and Sensing on a Chip," SPIE Photonics West, Frontiers in Biological Detection: From Nanosensors to Systems, January 2012, San Francisco, CA, paper # 8212-19 (*Invited Talk*)
802. M. Lee and A. Ozcan, "Field-portable reflection and transmission microscopy based on lensless digital holography," SPIE Photonics West, Advanced Biomedical and Clinical Diagnostic Systems X, January 2012, San Francisco, CA, paper # 8214-11
803. S. O. Isikman, W. Bishara, U. Sikora, O. Yaglidere, J. Yeah and A. Ozcan, "Lensfree Optical Tomographic Microscopy: From bench-top to field use", SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XIX, January 2012, San Francisco, CA, paper # 8227-31
804. T-W. Su and A. Ozcan, "Resolving 3-D trajectories of sperms on a chip using multi-angle lensfree digital holography," SPIE Photonics West, Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XIX, January 2012, San Francisco, CA, paper # 8227-30
805. S. O. Isikman, W. Bishara, H. Zhu and A. Ozcan, "Optofluidic tomographic microscopy: a new tool for optofluidics", SPIE Photonics West, Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues X, January 2012, San Francisco, CA, paper # 8225-26
806. I. Sencan, A. F. Coskun, T. Su, D. G. Herman, Y. Suh, and A. Ozcan, "Lensfree incoherent color imaging using compressive decoding," SPIE Photonics West, Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues X, January 2012, San Francisco, CA, paper # 8225-34
807. O. Mudanyali, W. Bishara, and A. Ozcan, "Lensfree pixel superresolution microscopy using thin wetting films on a chip", SPIE Photonics West, Optical Diagnostics and Sensing XII: Toward Point-of-Care Diagnostics, January 2012, San Francisco, CA, paper # 8229A-17
808. O. Mudanyali, D. Tseng, S. O. Isikman, C. Oztoprak, I. Sencan, W. Bishara, O. Yaglidere and A. Ozcan, "Compact and Cost-effective Lensless Telemedicine Microscopy for Global Health Applications," IEEE Global Humanitarian Technology Conference (GHTC), Seattle, Washington (October 30 - November 1, 2011)
809. S.O. Isikman, W. Bishara, H. Zhu, and A. Ozcan, "Optofluidic Tomography," OSA Frontiers in Optics (FiO), San Jose, CA (October 16-20, 2011)
810. A. Ozcan, "Lensless Microscopy and Sensing on a Chip," OSA Frontiers in Optics (FiO), San Jose, CA (October 16-20, 2011) (*Invited Talk*)
811. M. Lee, O. Yaglidere, and A. Ozcan, "Compact and Cost-effective Lensfree Reflection and Transmission Microscopy on Chip," OSA Frontiers in Optics (FiO), San Jose, CA (October 16-20, 2011)
812. U. Sikora, S. Isikman, W. Bishara, O. Yaglidere, J. Yeah, and A. Ozcan, "Portable Lens-free Tomographic Microscope," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011) - *Undergraduate Research Paper*
813. O. Yaglidere, M. Lee, and A. Ozcan, "Field Portable Reflection and Transmission Microscopy," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011) - *Undergraduate Research Paper*
814. D. Herman, Y. Suh, A.F. Coskun, I. Sencan, T. Su, and A. Ozcan, "Waveguide-based Lensless Fluorescence Microscopy for Wide-field On-Chip Imaging," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011) - *Undergraduate Research Paper*

815. W. Bishara, U. Sikora, O. Mudanyali, T. Su, O. Yaglidere, S. Luckhart, and A. Ozcan, "Portable Lensless Pixel Super-Resolution Microscope for Telemedicine Applications," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011)
816. A.F. Coskun, T. Su, I. Sencan, and A. Ozcan, "Wide-field Lensless Fluorescent Microscopy," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011)
817. S.O. Isikman, W. Bishara, S. Mavandadi, F.W. Yu, S. Feng, R. Lau and A. Ozcan, "Lensless Optical Tomography On a Chip," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011)
818. H. Zhu, O. Yaglidere, T. Su, D. Tseng, and A. Ozcan, "Wide-field fluorescent microscopy on a cell-phone," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011)
819. O. Mudanyali, W. Bishara, and A. Ozcan, "Lensfree Pixel-Super Resolution Microscopy using Wetting-films On a Chip," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011)
820. G. Biener, A. Greenbaum, S. Isikman, K. Lee, D. Tseng and A. Ozcan, "Field-Portable Reflection and Transmission Microscope," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011)
821. M. Lee and A. Ozcan, "Compact and Cost-effective Lensfree Reflection Microscopy On a Chip," BMES - Biomedical Engineering Society Annual Meeting, Hartford, Connecticut (October 12-15, 2011)
822. W. Bishara, S.O. Isikman, H. Zhu, A. Ozcan, "Opto-fluidic Tomography," MicroTAS 2011 - The 15th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Seattle, USA (October 2-6, 2011)
823. S.O. Isikman, W. Bishara, U. Sikora, O. Yaglidere, J. Yeah, and A. Ozcan, "Compact and Cost-effective Lensless Tomographic On-Chip Microscope," MicroTAS 2011 - The 15th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Seattle, USA (October 2-6, 2011)
824. O. Mudanyali, W. Bishara, and A. Ozcan, "Lensfree Super-resolution Microscopy using Wetting Films," MicroTAS 2011 - The 15th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Seattle, USA (October 2-6, 2011)
825. G. Biener, A. Greenbaum, S.O. Isikman, K. Lee, D. Tseng and A. Ozcan, "Field-Portable Reflection and Transmission Microscope for Telemedicine Applications," MicroTAS 2011 - The 15th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Seattle, USA (October 2-6, 2011)
826. A. Ozcan, "Lensfree On-Chip Microscopy and Tomography," European Optical Society (EOS) Topical Meeting on Optical Microsystems, September 26-28, 2011, Capri, Italy (*Invited Talk*)
827. A.F. Coskun, I. Sencan, T. Su, and A. Ozcan, "Lensless Fluorescent On-Chip Microscopy using a Fiber-Optic Taper," IEEE Engineering in Medicine and Biology Society (EMBC'11), Boston, MA, USA (August 30 -September 3, 2011)
828. H. Zhu, O. Yaglidere, T. Su, D. Tseng, and A. Ozcan, "Wide-field Fluorescent Microscopy on a Cell-phone," IEEE Engineering in Medicine and Biology Society (EMBC'11), Boston, MA, USA (August 30 -September 3, 2011)
829. W. Bishara, U. Sikora, O. Mudanyali, T. Su, O. Yaglidere, S. Luckhart, and A. Ozcan, "Portable and Cost-effective Pixel Super-Resolution On-Chip Microscope for Telemedicine Applications," IEEE Engineering in Medicine and Biology Society (EMBC'11), Boston, MA, USA (August 30 -September 3, 2011)
830. S.O. Isikman, W. Bishara, H. Zhu and A. Ozcan, "Optofluidic On-Chip Tomography," IEEE Engineering in Medicine and Biology Society (EMBC'11), Boston, MA, USA (August 30 -

September 3, 2011)

831. B. Khademhosseini, I. Sencan, G. Biener, and A. Ozcan, "Use of Nano-structured Surfaces to Enable Higher Resolution Detector Arrays for Lensfree Imaging and Sensing on a Chip," Nanoelectronic Devices for Defense and Security Conference (Nano DDS), Brooklyn, New York, (August 29 - September 1, 2011) (*Invited Talk*)
832. W. Bishara, T. Su, A.F. Coskun, H. Zhu, A. Ozcan, "High-resolution lens-free on-chip microscopy using holographic multiframe pixel super-resolution," SPIE Optics and Photonics, Unconventional Imaging and Wavefront Sensing VII (August 21-25 2011) San Diego, CA, USA, Paper # 8165A-7
833. A.F. Coskun, I. Sencan, T. Su, and A. Ozcan, "Lensless fluorescent microscopy on a chip using a tapered fiber optic faceplate and compressive decoding," SPIE Optics and Photonics, Unconventional Imaging and Wavefront Sensing VII (August 21-25 2011) San Diego, CA, USA, Paper # 8165A-9
834. S.O. Isikman, W. Bishara, S. Mavandadi, F.W. Yu, S. Feng, R. Lau and A. Ozcan, "Lensless Tomographic Microscopy on a Chip," OSA Imaging and Applied Optics Congress Meeting - Computational Optical Sensing and Imaging (COSI), July 10-14 2011, Toronto, Ontario, Canada (*Postdeadline Paper*)
835. W. Bishara, U. Sikora, O. Mudanyali, T.W. Su, O. Yaglidere, S. Luckhart, and A. Ozcan, "Field-Portable Lensless Holographic Microscope using Pixel Super-Resolution," OSA Imaging and Applied Optics Congress Meeting - Computational Optical Sensing and Imaging (COSI), July 10-14 2011, Toronto, Ontario, Canada
836. H. Zhu, O. Yaglidere, T-W, Su, D. Tseng, and A. Ozcan, "Cost-effective and Field-portable Fluorescent Microscopy on a Cell-phone," 12th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, San Barbara, USA
837. G. Biener, A. Greenbaum, S.O. Isikman, K. Lee, D. Tseng, and A. Ozcan, "Dual-mode Telemedicine Microscope," 12th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, Santa Barbara, USA
838. T.-W. Su, A. Erlinger, D. Tseng, and A. Ozcan, "Lensless On-chip Microscope as a Portable Semen Analysis Device," 12th Annual Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, Santa Barbara, USA
839. A.F. Coskun, T. Su, I. Sencan, and A. Ozcan, "Lensfree Fluorescent Microscopy", 12th Annual Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, Santa Barbara, USA
840. W. Bishara, U. Sikora, O. Mudanyali, T.W. Su, O. Yaglidere, S. Luckhart, and A. Ozcan., "Portable and Cost-effective Pixel Super-Resolution Microscope for Telemedicine Applications," 12th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, Santa Barbara, USA
841. M. Lee and A. Ozcan, "Field-portable Lensfree Reflection Holographic Microscopy," 11th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, Santa Barbara, US
842. O. Mudanyali, W. Bishara and A. Ozcan, "Lensfree On-chip Super Resolution Microscopy using Wetting-films", 12th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, Santa Barbara, USA
843. S. O. Isikman, W. Bishara, S. Mavandadi, F. Yu, S. Feng, R. Lau, and A. Ozcan, "Lensfree Optical Tomographic Microscopy on a Chip," 12th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2011, University of California, Santa Barbara, USA
844. A. Ozcan, "Lensfree Microscopy On a Chip," Microscopical Society of Canada, 38th Annual Meeting (June 7-10, 2011) Ottawa, Canada (*Plenary Talk*)

845. A. Ozcan, "Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications," ECI Advances in Optics for Biotechnology, Medicine & Surgery XII, (June 5-8, 2011) Naples, Florida (*Invited Talk*)
846. A. Ozcan, "Lensfree Holographic Microscopy for Global Health Applications," OSA Digital Holography and Three Dimensional Imaging, (May 9-11, 2011) Tokyo, Japan (*Invited Talk*)
847. W. Bishara, U. Sikora, O. Mudanyali, T. Su, O. Yaglidere, S. Luckhart, and A. Ozcan, "Field-Portable Lensless Holographic Microscope using Pixel Super-Resolution," OSA Topical Meeting on Computational Optical Sensing and Imaging, (July 10-14 2011) Toronto, Canada, Paper # CMA2
848. A. Ozcan, "Lensfree Microscopy On a Chip," OSA Topical Meeting, Novel Techniques in Microscopy, (April 4-6, 2011) Monterey, CA (*Invited Talk*)
849. B. Khademhosseini, G. Biener, I. Sencan, T. Su, A.F. Coskun and A. Ozcan, "Plasmonic Nano-Apertures for Lensfree On-chip Sensing," OSA Conference on Lasers and Electro-optics (*CLEO '11*) (May 1-6, 2011), Baltimore, Maryland USA, Paper # CTuZ4
850. B. Khademhosseini, G. Biener, I. Sencan, and A. Ozcan, "Lensless On-Chip Color Imaging using Nano-structured Surfaces and Compressive Decoding," OSA Conference on Lasers and Electro-optics (*CLEO '11*) (May 1-6, 2011), Baltimore, Maryland USA, Paper # CTuM1
851. A.F. Coskun, I. Sencan, T. Su, and A. Ozcan, "Wide-field Lensless Fluorescent Imaging of Transgenic *Caenorhabditis Elegans* On a Chip," OSA Conference on Lasers and Electro-optics (*CLEO '11*) (May 1-6, 2011), Baltimore, Maryland USA, Paper # AMF4
852. W. Bishara, H. Zhu, and A. Ozcan, "High-resolution Holographic Opto-fluidic Microscope On a Chip," OSA Conference on Lasers and Electro-optics (*CLEO '11*) (May 1-6, 2011), Baltimore, Maryland USA, Paper # CTuM4
853. S.O. Isikman, S. Seo, I. Sencan, O. Mudanyali, T. Su, W. Bishara, A. Erlinger, and A. Ozcan, "On-chip Blood Analysis Using Lensless Microscopy," SPIE Defense, Security, and Sensing Conference, (April 25-29 2011) Orlando, USA, Paper # 8029A-10
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INVITED TECHNICAL PRESENTATIONS

1. **A. Ozcan**, "Integration of programmable diffraction with digital neural networks", SPIE Defense & Commercial Sensing, April 15, 2025, Orlando, FL, USA
2. **A. Ozcan**, "Virtual staining of label-free tissue using deep learning", ACS Spring Meeting, March 24, 2025, San Diego, CA, USA
3. **A. Ozcan**, "Diffractive information processing and computational imaging", ACS Spring Meeting, March 23, 2025, San Diego, CA, USA
4. **A. Ozcan**, "AI-based advances in biomedical microscopy and sensing", Keith Terasaki Award Lecture, Terasaki Innovation Summit, March 8, 2025, Los Angeles, CA, USA
5. **A. Ozcan**, "AI-based advances in biomedical microscopy and sensing", Biophysical Society (BPS) Annual Meeting, February 17, 2025, Los Angeles, CA, USA
6. **A. Ozcan**, "Diffractive Optical Processors for Monitoring Structural Health", Society for Experimental Mechanics (SEM), International Modal Analysis (IMAC) Conference (SEM IMAC), February 10, 2025, Orlando, FL, USA (**Keynote Talk**)
7. **A. Ozcan**, "Integration of programmable diffraction with digital neural networks", SPIE Photonics West, AI and Optical Data Sciences VI, January 27, 2025, San Francisco, CA, USA
8. **A. Ozcan**, “Deep Learning-enabled Computational Microscopy and Diffractive Imaging,” International Conference on Emerging Trends in Optical Technologies (ETOT), January 2-4, 2025, Andhra Pradesh, India (**Plenary Talk**)
9. **A. Ozcan**, “Programming Light Diffraction for Information Processing and Computational

- Imaging,” I-GAIA Colloquium, Sorbonne University, Jussieu Campus, France, December 18, 2024, Virtual
10. **A. Ozcan**, “Integration of programmable diffraction with digital neural networks,” Photonics West China, Chinese Society for Optical Engineering (CSOE), November 30, 2024, Virtual (*Plenary Talk*)
 11. **A. Ozcan**, “Integration of programmable diffraction with digital neural networks,” Workshop on Meta-Optics and Nonlinear Photonics, Nankai University, China, November 9, 2024, Virtual (*Keynote Talk*)
 12. **A. Ozcan**, “Physics and Artificial Intelligence: Illuminating the Future of Optics and Photonics,” Advanced Photonics Forum on AI Photonics, November 1, 2024, Virtual (*Plenary Talk*)
 13. **A. Ozcan**, “Virtual staining of label-free tissue using deep learning,” MicroTAS 2024 - The 28th International Conference on Miniaturized Systems for Chemistry and Life Sciences, October 14, 2024, Montreal, Canada (*Keynote Talk*)
 14. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," Ohio State University (OSU), NSF AI Institute Seminar Series, October 4, 2024 (Virtual)
 15. **A. Ozcan**, "Virtual staining of label-free tissue," BioImaging North America (BINA) Community Congress, University of Wisconsin-Madison, September 24, 2024, Wisconsin-Madison, WI, USA (*Keynote Talk*)
 16. **A. Ozcan**, “Virtual staining of label-free tissue,” Optica Frontiers in Optics (FiO) Conference, September 23, 2024, Denver, CO, USA
 17. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," NIH Workshop on Transformative Non-Invasive/Minimally Invasive Technologies for Imaging the Olfactory System Across Scales, September 19, 2024 (Virtual)
 18. **A. Ozcan**, "AI in Biomedical Imaging: Transforming Microscopy and Diagnostics," NYU Abu Dhabi, The Institute Public Talk, September 18, 2024, Abu Dhabi, UAE
 19. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," NYU Abu Dhabi, Engineering Seminar Series, September 18, 2024, Abu Dhabi, UAE
 20. **A. Ozcan**, "Programming Light Diffraction for Information Processing and Computational Imaging," Jena LIGHT Conference, Photonics Meets AI, Abbe Center of Photonics, Friedrich Schiller University Jena, September 4, 2024, Jena, Germany (*Keynote Talk*)
 21. **A. Ozcan**, "Computational Multiplexed Point-of-Care Sensing and Diagnostics Using Paper and AI," PATHS-UP Digital Health Workshop, Rice University, August 27, 2024, Houston TX, USA
 22. **A. Ozcan**, "Integration of programmable diffraction with digital neural networks," SPIE Optics and Photonics, August 21, 2024, San Diego CA, USA
 23. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," SPIE Optics and Photonics, August 19, 2024, San Diego CA, USA
 24. **A. Ozcan**, "Commercialization of Computational Imaging and Sensing Technologies," The Cal State LA BioStart Bioscience Entrepreneurs Boot Camp, CNSI-UCLA, August 5, 2024, Los Angeles, CA, USA
 25. **A. Ozcan**, "Optical Label-free Microscopy and Sensing," Interventional Biophotonics Symposium & Summer School, University of California, Davis, July 23, 2024, Davis, CA, USA
 26. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," 14th International Conference on Optics-Photonics Design and Fabrication (ODF), July 12, 2024, Tucson, Arizona, USA
 27. **A. Ozcan**, “Harnessing Programmed Diffraction for Advanced Visual Information Processing,” ONR Maritime Sensing Fundamental Research Review, June 25, 2024, Monterey,

CA, USA

28. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," Hewlett Packard Labs, Large Scale Integrated Photonics Lab Tech Talks, June 18, 2024 (Virtual)
29. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging", Optica Digital Holography and Three Dimensional Imaging Topical Meeting, June 4, 2024, Paestum, Italy (*Plenary Talk*)
30. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," 26th Photonics North Conference, May 28, 2024, Vancouver, Canada
31. **A. Ozcan**, "Impactful Innovation: Productizing Your mHealth Solution," NIH mHealth Training Institute, May 20, 2024 (Virtual)
32. **A. Ozcan**, "Diffractive information processing and computational imaging," Computational Optics Conference, HHMI Janelia Research Campus, May 20, 2024, VA, USA
33. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," Advanced Light Microscopy Symposium, UCLA California NanoSystems Institute, May 16, 2024, Los Angeles, CA
34. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," Hewlett Packard Labs, Large Scale Integrated Photonics Lab Tech Talks, May 7, 2024 (Virtual)
35. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," Stanford University Optical Society - Photonics Retreat, April 27, 2024, Pacific Grove, CA, USA
36. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," Lawrence Livermore National Lab (LLNL), Materials Engineering Division & Materials Science Division Guest Seminar, April 26, 2024, Livermore, CA, USA
37. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," Optica Biophotonics Congress: Biomedical Optics, April 7-10, 2024, Fort Lauderdale, FL, USA
38. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning, Label-free Super-resolution Imaging Symposium, University of California, San Diego, March 29, 2024 (Virtual)
39. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," ETH Department of Mechanical and Process Engineering, March 22, 2024, Zurich, Switzerland
40. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," EPFL Institute of Electrical and Micro Engineering (IEM) & Center for Imaging, Distinguished Lecturer Seminar Series, March 20, 2024, Lausanne, Switzerland
41. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," *Advanced Photonics* - Optics Frontier Seminar Series, February 27, 2024 (Virtual)
42. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," University of Arizona, Wyant College of Optical Sciences Colloquium, February 22, 2024, Tucson, Arizona, USA
43. **A. Ozcan**, "Virtual staining of label-free tissue using deep learning", SPIE Photonics West, Quantitative Phase Imaging, January 29, 2024, San Francisco, CA, USA
44. **A. Ozcan**, "Diffractive visual processors", SPIE Photonics West, Computational Optical Imaging and Artificial Intelligence in Biomedical Sciences, January 28, 2024, San Francisco, CA, USA (*Keynote Talk*)
45. **A. Ozcan**, "Computational Label-free Microscopy and Point-of-care Sensing," The 7th IEEE Internet of Things Summit, Intelligent Biomedical Applications, January 24, 2024, San Antonio, TX, USA
46. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," The 54th Winter Colloquium on the Physics of Quantum Electronics (PQE), January 8, 2024, Utah, USA
47. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," Izmir Institute of Technology, Photonics Department Seminar, January 5, 2024, Izmir, Turkey

48. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," Izmir Biomedicine and Genome Center, Dokuz Eylül University, January 4, 2024, Izmir, Turkey
49. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," Koç University, College of Engineering Distinguished Seminar Series, December 21, 2023, Istanbul, Turkey
50. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," 12th Annual Surgery, Intervention & Engineering Symposium, Vanderbilt Institute for Surgery and Engineering (VISE), Vanderbilt University, December 13, 2023, Nashville, TN (**Keynote Talk**)
51. **A. Ozcan**, "Diffractive Information Processing and Computational Imaging," Vanderbilt Biophotonics Center (VBC) Seminar Series, Vanderbilt University, December 12, 2023, Nashville, TN
52. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," Ankara University, 10th Biomaterials Day - Seminar Series, December 8, 2023, (Virtual)
53. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," International Symposium on Imaging, Sensing, and Optical Memory (ISOM), November 20, 2023, Kagawa, Japan (**Keynote Talk**)
54. **A. Ozcan**, "All-Optical Transformations Performed Using Diffractive Materials," AFOSR Physics of Sensing Program Review, November 14, 2023, Arlington, VA
55. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," IEEE Asilomar Conference on Signals, Systems, and Computers, October 31, 2023, Asilomar, CA
56. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Diffractive Imaging," University of California Santa Cruz (UCSC), Electrical & Computer Engineering, Departmental Seminar Series, October 30, 2023, Santa Cruz, CA
57. **A. Ozcan**, "Deep Learning-designed Diffractive Materials for Optical Computing and Computational Imaging," IEEE Nanotechnology Materials and Devices Conference (IEEE NMDC), October 24, 2023, Paestum, Italy (**Keynote Talk**)
58. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," CEINGE-Biotecnologie Avanzate Seminar, October 23, 2023, Naples, Italy
59. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," The 9th Turkish Institutes of Health (TUSEB) Annual Meeting, October 21, 2023, Istanbul, Turkiye
60. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," The 3rd Innovation Forum on Intelligent Computing, Zhejiang Lab, *Science*, and *Science Robotics* (AAAS) October 20, 2023 (Virtual)
61. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," Nano-Balkan International Conference, October 19, 2023, Tirana, Albania (**Plenary Talk**)
62. **A. Ozcan**, "Diffusing Computation into Optical Microscopy Hardware," CZI (Chan Zuckerberg Initiative) Frontiers in Imaging Workshop, October 17, 2023, San Francisco, CA
63. **A. Ozcan**, "Diffractive Optical Processors," Optica Frontiers in Optics (FiO) Conference, October 11, 2023, Seattle, WA (**Visionary Talk**)
64. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," University of Washington, Optica Student Chapter, October 10, 2023, Seattle, WA
65. **A. Ozcan**, "Computational Label-free Microscopy and Point-of-care Sensing," Global Health Labs, Innovation & Impact Speaker Series, October 10, 2023, Seattle, WA
66. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," Zhejiang University, Intelligent Computing Webinar, October 9, 2023 (Online)
67. **A. Ozcan**, "Diffractive optical networks & computational imaging without a computer," 28th Microoptics Conference, September 27, 2023, Miyazaki, Japan
68. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," International Forum

- on Microscopy (IFM), September 9, 2023, Zhongshan, China (*Plenary Talk*)
69. **A. Ozcan**, "Diffractive optical networks," International Conference on Materials Science, Engineering & Technology, September 8, 2023, Singapore (*Keynote Talk*)
 70. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," University of Tokyo, Chemistry Department, September 8, 2023, Tokyo, Japan
 71. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," Royal Society of Chemistry (RSC), Tokyo International Conference, September 7, 2023, Chiba, Japan (*Plenary Lecture*)
 72. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," RIKEN Metamaterials Seminar, September 6, 2023, Wako, Saitama, Japan
 73. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," Tokyo University of Technology, Special Lecture, September 6, 2023, Tokyo, Japan
 74. **A. Ozcan**, "Diffractive optical networks & computational imaging without a computer," SPIE Optics and Photonics, August 21, 2023, San Diego CA, USA
 75. **A. Ozcan**, "Diffractive optical networks & computational imaging without a computer," Conference on Visible Light Communication and Optical Computing, Chinese Optical Society, August 19, 2023, Shenzhen, China (Virtual) (*Plenary Talk*)
 76. **A. Ozcan**, "Diffractive optical networks & computational imaging without a computer," Forum on Photonic Integrated Circuits, Chinese Society of Optical Engineering, August 14, 2023, Xiamen, China (Virtual)
 77. **A. Ozcan**, "Diffractive Visual Processors," Phase for Life: Quantitative Phase Microscopy for Life Sciences Conference, Harvard University, August 12, 2023, Cambridge, MA, USA
 78. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy and Diffractive Imaging," Gordon Research Conference (GRC) – Chemical Imaging, August 3, 2023, Boston, MA, USA
 79. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," International Conference on Optical MEMS and Nanophotonics (OMN), August 1, 2023, Unicamp, Brazil (*Plenary Talk*)
 80. **A. Ozcan**, "Deep Learning Enabled Virtual Staining," Interventional Biophotonics Symposium & Summer School, University of California, Davis, July 17, 2023, Davis, CA, USA (*Keynote Talk*)
 81. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," International Conference on Quantum Engineered Sensing and Information Technology, June 28, 2023, Paris, France
 82. **A. Ozcan**, "Deep-learning-enabled computational microscopy and diffractive imaging," Pasteur Institute, June 27, 2023, Paris, France
 83. **A. Ozcan**, "Virtual Staining of Label-free Tissue using Deep Learning," SPIE Optical Metrology Conference, June 26, 2023, Munich, Germany
 84. **A. Ozcan**, "Deep-learning-enabled computational microscopy and diffractive imaging," International School on Light Sciences and Technologies, Universidad Internacional Menéndez Pelayo (UIMP), June 19, 2023, Santander, Spain (*Plenary Talk*)
 85. **A. Ozcan**, "Diffractive Optical Computing and Imaging," PhotoniX Forum, Chinese Society of Optical Engineering, May 27, 2023, Hangzhou, China (*Plenary Talk*)
 86. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," Biomaterials Conference, Qatar University, May 7, 2023, Qatar (*Keynote Talk*)
 87. **A. Ozcan**, "Deep-learning-enabled computational microscopy and diffractive imaging," Optics and Photonics International Congress (OPIC), Biomedical Imaging and Sensing Conference (SPIE), April 21, 2023, Pacifico Yokohama, Japan
 88. **A. Ozcan**, "Deep-learning-enabled computational microscopy and diffractive imaging," SPIE Photonics West, Biophotonics Plenary Session, January 29, 2023, San Francisco, CA (*Plenary*)

Talk)

89. **A. Ozcan**, "Diffractive Optical Networks and Computational Imaging Without a Computer," SPIE Photonics West, Practical Holography XXXVII: Displays, Materials, and Applications, January 31, 2023, San Francisco, CA
90. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Optica Student Chapter of the Izmir Institute of Technology (Turkey), Photonics Department Special Seminar, January 21, 2023 (Virtual)
91. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Electronic Imaging Conference, Society for Imaging Science and Technology, January 17, 2023, San Francisco, USA
92. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," The 53rd Winter Colloquium on the Physics of Quantum Electronics (PQE), January 13, 2023, Utah, USA
93. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Optica Student Chapter of the National Institute of Astrophysics, Optics and Electronics (INAOE - Mexico), Winter Workshop in Optics, December 7, 2022 (Virtual)
94. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Boston University, Photonics Center Symposium, December 1, 2022
95. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," International Conference on Optical and Photonic Engineering (icOPEN), November 24, 2022, Virtual (***Plenary Talk***)
96. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," SPIE Conference on Advanced Photonics, November 23, 2022, Virtual
97. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," IEEE Photonics Conference, November 16, 2022, Vancouver, Canada
98. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Asia Communications and Photonics Conference (ACP) & International Conference on Information Photonics and Optical Communications (IPOC), November 5, 2022 (Virtual)
99. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," USC Ming Shieh Institute (MHI) Seminar Series, USC, November 1, 2022, Los Angeles, CA, USA
100. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Institute for Pure & Applied Mathematics (IPAM), Diffractive Imaging with Phase Retrieval Workshop, UCLA, October 14, 2022, Los Angeles, CA, USA
101. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Bilkent University, Electrical & Electronics Engineering Department, Distinguished Speaker Seminar Series, October 10, 2022, Ankara, Turkey
102. **A. Ozcan**, "Deep Learning-enabled computational microscopy for biophotonics" SPIE Translational Biophotonics & Additive Manufacturing, September 13, 2022, Los Angeles, CA, USA
103. **A. Ozcan**, "Diffractive Optical Computing," 25th Congress of the International Commission for Optics (ICO), September 9, 2022, Dresden, Germany
104. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," ACS Fall Meeting, August 22, 2022, Chicago, IL, USA
105. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," 13th International Conference on Optics-Photonics Design and Fabrication (ODF), August 5, 2022, Sapporo, Japan
106. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," IEEE International Conference on Computational Photography (ICCP), Caltech, August 1,

2022, Pasadena, CA, USA

107. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Terasaki Institute for Biomedical Innovation, Terasaki Talk Series, July 13, 2022, Virtual
108. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Optica Imaging and Applied Optics Congress, July 12, 2022, Vancouver, Canada
109. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Gordon Research Conference (GRC) – Image Science, June 6, 2022, Newry, ME, USA
110. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," UCLA Department of Physics & Astronomy Colloquium, May 26, 2022, Los Angeles, CA
111. **A. Ozcan**, "Virtual Staining of Tissue Using AI," Research Innovation Spotlight on Tools & Diagnostics, the Alliance for SoCal Innovation and BioscienceLA, May 3, 2022, Virtual
112. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Microsystems Exploratory Council (MEC), Optical Computing Workshop, April 2, 2022, San Francisco, CA
113. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," 16th International Conference on Laser Applications in Life Sciences (LALS), April 1, 2022, Nancy, France (**Keynote Talk**)
114. **A. Ozcan**, "Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health," IEEE International Symposium on Biomedical Imaging (IEEE ISBI), March 29, 2022, Virtual
115. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," ICFO – The Institute of Photonic Sciences (Barcelona, Spain), Light for Health Seminars, March 29, 2022, Virtual
116. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," TUBITAK Research Institute for Fundamental Sciences (Turkey), Distinguished Lecture Series, March 24, 2022, Virtual
117. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," Caltech/UCLA NIH T32 Program Symposium, March 21, 2022, Pasadena, CA
118. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Technische Universität Dresden, Germany, SPIE & Optica Student Chapter Seminar Series, March 21, 2022, Virtual
119. **A. Ozcan**, "AI-enabled Computational Imaging for Biomedical Applications," Ulsan National Institute of Science and Technology (UNIST, Korea), Department of Biomedical Engineering Distinguished Seminar Series, March 17, 2022, Virtual
120. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Ontario Tech University (Canada), Engineering Research Distinguished Lecture Series, March 15, 2022, Virtual
121. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," UC Berkeley, Solid State Devices Seminar Series, March 4, 2022, Virtual
122. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," Koç University Research Center for Translational Medicine, Annual Graduate Research Conference, February 17, 2022, Virtual (**Keynote Talk**)
123. **A. Ozcan**, "Diffractive optical neural networks", SPIE Photonics West, AI and Optical Data Sciences III, January 25, 2022, San Francisco, CA (**Keynote Talk**)
124. **A. Ozcan**, "Deep Learning-enabled Optics", SPIE Photonics West, BIOS Hot Topics Plenary Session, January 22, 2022, San Francisco, CA (**Plenary Session**)
125. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Indian Institutes of Technology (IIT), Delhi, Optica (OSA) Student

- Chapter, December 28, 2021, Virtual
126. **A. Ozcan**, "Diffractive Optical Networks & Computational Imaging Without a Computer," Max-Planck Institute – For the Science of Light, Distinguished Lecturer Series, December 2, 2021, Virtual
 127. **A. Ozcan**, "Diffractive Optical Computing," University of California, Riverside (UCR), Electrical & Computer Engineering Distinguished Colloquium, November 15, 2021, Virtual
 128. **A. Ozcan**, "Toward a Thinking Microscope," Federation of Turkish Pathology Associations, November 10, 2021, Virtual Conference
 129. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," OSA Frontiers in Optics (FiO) Conference, November 1, 2021, Virtual Conference
 130. **A. Ozcan**, "Deep Learning Advances Optical Microscopy," Biophotonics Conference – Photonics Media, October 26, 2021, Virtual
 131. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," 16th National Physics Meeting (XVI Encuentro de Física), Quito, Ecuador, October 25, 2021 - Virtual (*Keynote Talk*)
 132. **A. Ozcan**, "Diffractive Optical Networks," IEEE Photonics Conference, Virtual, October 18, 2021
 133. **A. Ozcan**, "Toward intelligent microscopes: deep learning's potential for biomedical imaging applications," Annual Conference of the Society of Biomolecular Imaging and Informatics (SBI²), Virtual, October 5, 2021 (*Keynote Talk*)
 134. **A. Ozcan**, "Deep Learning-enabled Computational Water Sensors," IEEE International Workshop on Metrology for the Sea (MetroSea'21), Italy, October 5, 2021 (*Plenary Talk*)
 135. **A. Ozcan**, "Diffractive Optical Neural Networks," Chinese Society of Optical Engineering (CSOE) International Computational Imaging Conference, Hangzhou, China, September 25, 2021 (*Plenary Talk*)
 136. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," KAIST Biophotonics Lecture Series, September 13, 2021, Virtual
 137. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Institute of Physics (IOP), Machine Learning in Biological Physics Meeting, September 6, 2021, Virtual
 138. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," Laser Focus World - Webinar, August 8, 2021, Virtual
 139. **A. Ozcan**, "Terahertz applications of diffractive optical networks," SPIE Optics and Photonics, August 1-5, 2021, Virtual Conference
 140. **A. Ozcan**, "Diffractive Optical Networks," OSA Imaging and Applied Optics Congress, July 19, 2021, Virtual Conference (*Keynote Talk*)
 141. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy," Royal Microscopical Society (RMS) Microscience Microscopy Congress (MMC), July 6, 2021, (*Plenary Talk*)
 142. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," IEEE UAE Distinguished Seminar Series, June 28, 2021, Virtual
 143. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," SPIE & OSA Student Chapter – Karlsruhe, Germany, June 18, 2021, Virtual
 144. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Bogazici University, Physics Department, May 28, 2021, Virtual
 145. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Ege University, School of Engineering, May 26, 2021, Virtual
 146. **A. Ozcan**, "Diffractive Optical Networks Designed by Deep Learning," The 5th International Conference on Optoelectronic and Microelectronic Technology and Application (OMTA

- 2021), Chinese Society for Optical Engineering (CSOE), May 22, 2021, Virtual Conference (*Plenary Talk*)
147. **A. Ozcan**, "Deep learning-enabled computational microscopy and sensing," UCLA Cardiovascular Theme Distinguished Seminar Series, David Geffen School of Medicine, UCLA, May 17, 2021
 148. **A. Ozcan**, "Virtual Staining of Tissue Using Deep Learning," Roche - Tucson Symposium, Innovations in Cancer Science and Diagnostics, April 21, 2021, Virtual Conference
 149. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," MIT [Internet of Things \(IoT\) Seminar Series](#), April 6, 2021, Virtual
 150. **A. Ozcan**, "Deep learning-enabled high-throughput cytometry and sensing," U.S. Army Combat Capabilities Development Command (DEVCOM) Soldier Center Water Sensor Symposium, March 24, 2021, Virtual Conference
 151. **A. Ozcan**, "Next Generation Technologies to Power Telehealth and Remote Monitoring," Digital Health Conference, The Southern California Biomedical Council (SoCalBio), March 23, 2021, Virtual Conference (*Keynote Talk*)
 152. **A. Ozcan**, "Deep learning-enabled computational microscopy," Endocrine Society Annual Meeting (ENDO 2021), Symposium on Thinking Microscopes - Artificial Intelligence in Imaging Molecules, Cells and Tumors, March 21, 2021, Virtual Conference
 153. **A. Ozcan**, "Diffractive optical neural networks," SPIE Photonics West, AI and Optical Data Sciences II, March 6-11, 2021, Virtual Conference
 154. **A. Ozcan**, "Deep learning-enabled computational microscopy and sensing," SPIE Photonics West, Integrated Sensors for Biological and Neural Sensing, March 6-11, 2021, Virtual Conference
 155. **A. Ozcan**, "Deep Learning-enabled Computational Imaging and Sensing," Biosensors for Pandemics Conference, February 3, 2021, Virtual Conference (*Plenary Talk*)
 156. **A. Ozcan**, "Toward Intelligent Microscopes: Deep Learning's Potential for Biomedical Applications," *Photonics Spectra* Conference, January 22, 2021, Virtual Conference (*Keynote Talk*)
 157. **A. Ozcan**, "Diffractive optical neural networks designed by deep learning," SPIE Advanced Photonics Colloquium, January 13, 2021, Virtual Conference
 158. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy for Biomedical Applications," BME Frontiers International Symposium on Advanced Optical Imaging for Biomedicine (organized by AAAS and SPJ), December 14, 2020, Virtual Conference (*Keynote Talk*)
 159. **A. Ozcan**, "Deep Learning-enabled Computational Imaging and Sensing," The 31st Frontier Scientists Workshop, The Korean Academy of Science and Technology (KAST), December 4, 2020, Virtual Conference
 160. **A. Ozcan**, "Diffractive optical neural networks designed by deep learning," MRS Spring Meeting, November 29, 2020, Virtual Conference (*Keynote Talk*)
 161. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," International Symposium on Imaging, Sensing and Optical Memory, organized by The Optical Society of Japan, November 29 – December 2, 2020, Virtual Conference
 162. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," 5th West Lake Photonics Symposium (WPS 2020), November 28, 2020, Virtual Conference (*Plenary Talk*)
 163. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," University of California Santa Cruz (UCSC), Electrical & Computer Engineering, Departmental Seminar Series, November 23, 2020, Virtual
 164. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," University of Wisconsin-Madison, SPIE/OSA Student Chapter

- Seminar, October 7, 2020, Virtual
165. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," Yonsei University, Korea, Department of Mechanical Engineering Graduate Seminar Series, September 25, 2020, Virtual
 166. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," AIChE Bioengineering & Translational Medicine Conference, September 28, 2020, Virtual Conference (**Keynote Talk**)
 167. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," IEEE Photonics Conference, September 28, 2020, Virtual Conference
 168. **A. Ozcan**, "Diffractive optical neural networks designed by deep learning," IEEE Research and Applications of Photonics in Defense (RAPID) Conference, August 12, 2020, Virtual Conference
 169. **A. Ozcan**, "Diffractive optical neural networks designed by deep learning," The International Conference on Computing and Data Science, August 2, 2020, Virtual Conference (**Keynote Talk**)
 170. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," iCANX Talks, Peking University Global Open Talks, June 26, 2020
 171. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," IEEE Photonics Society Boston Chapter Webinar, June 11, 2020
 172. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," 22nd Photonics North Conference, May 28, 2020, Virtual Conference (**Keynote Talk**)
 173. **A. Ozcan**, "Diffractive optical neural networks designed by deep learning," OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, Virtual Conference
 174. **A. Ozcan**, "Computational Microscopy and Sensing," Biosensors for Pandemics Conference, May 6, 2020, Virtual Conference (**Plenary Talk**)
 175. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," IEEE Aerospace Conference, March 11, 2020, Big Sky, Montana, USA (**Plenary Talk**)
 176. **A. Ozcan**, "Deep learning-enabled holography," SPIE Photonics West, Label-free Biomedical Imaging and Sensing, February 4, 2020, San Francisco, CA, USA (**Keynote Talk**)
 177. **A. Ozcan**, "Deep learning-enabled computational microscopy and sensing," SPIE Photonics West, Frontiers in Biological Detection: From Nanosensors to Systems, February 3, 2020, San Francisco, CA, USA
 178. **A. Ozcan**, "A Tale of Three Companies: Commercialization of Computational Imaging and Sensing Technologies," SPIE Photonics West, Advanced Biomedical and Clinical Diagnostic and Surgical Guidance, February 3, 2020, San Francisco, CA, USA
 179. **A. Ozcan**, "Deep Learning-Enabled Computational Microscopy," University of California, Berkeley, 17th Annual Advanced Imaging Methods Workshop, January 31, 2020, Berkeley, CA, USA
 180. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-Enabled Computational Microscopy and Sensing," Grand Rounds in Artificial Intelligence, University of Texas, Southwestern Medical Center, December 6, 2019, Dallas, Texas, USA
 181. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-Enabled Computational Microscopy and Sensing," Noble Talks, University of Jena, Abbe Center, November 7, 2019, Jena, Germany
 182. **A. Ozcan**, "Diffractive Optical Neural Networks Designed by Deep Learning," Leibniz Institute of Photonic Technology, November 7, 2019, Jena, Germany
 183. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-Enabled Computational

- Microscopy and Sensing,” Purdue University, Department of Physics and Astronomy Colloquium, October 31, 2019, Lafayette, Indiana, USA
184. **A. Ozcan**, “Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing,” The Annual Meeting of The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) – SciX Conference, October 17, 2019, Palm Springs, California, USA
 185. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing," International Forum on Microscopy (IFM'19), September 7, 2019, Beijing, China (*Plenary Talk*)
 186. **A. Ozcan**, "Deep learning in optical microscopy and image reconstruction," Nature Conference on AI and Robotics, organized by Nature Machine Intelligence, Nature Biomedical Engineering and Tencent AI Lab, September 2, 2019, Shenzhen, China
 187. **A. Ozcan**, “Toward a Thinking Microscope: Deep Learning-Enabled Computational Microscopy and Sensing,” University of Houston, Biomedical Engineering Department, SPIE Student Chapter Distinguished Lecture, August 20, 2019, Houston, TX, USA
 188. **A. Ozcan**, “Diffractive optical neural networks designed by deep learning,” SPIE Optics and Photonics Conference, August 15, 2019, San Diego, CA, USA, Paper #11080-89
 189. **A. Ozcan**, “Deep learning optics,” SPIE Optics and Photonics Conference, August 14, 2019, San Diego, CA, USA, Paper #11081-55
 190. **A. Ozcan**, “Toward a Thinking Microscope: Deep Learning-Enabled Computational Microscopy and Sensing,” Micro and Nano-technologies for Medicine Workshop: Emerging Frontiers and Applications, UCLA, July 9, 2019, Los Angeles, CA, USA
 191. **A. Ozcan**, “Toward a thinking microscope: Deep learning-enabled computational microscopy,” 21st International Vacuum Congress, July 2, 2019, Malmö, Sweden
 192. **A. Ozcan**, “Toward a thinking microscope: Deep learning-enabled computational microscopy and sensing,” Chalmers University of Technology, Department of Biology and Biological Engineering, June 27, 2019, Gothenburg, Sweden
 193. **A. Ozcan**, “Toward a thinking microscope: Deep learning-enabled computational microscopy and sensing,” Lund University, NanoLund Nanoscience Colloquium, June 26, 2019, Lund, Sweden
 194. **A. Ozcan**, “Democratization of Microscopy and Sensing,” The Bridge Talk, Medicon Village, June 25, 2019, Lund, Sweden
 195. **A. Ozcan**, “Democratization of Microscopy and Sensing,” Malmö University, Department of Biomedical Science, June 25, 2019, Malmö, Sweden
 196. **A. Ozcan**, “Toward a thinking microscope: Deep learning-enabled computational microscopy and sensing,” SPIE Optical Metrology and Digital Optical Technologies Symposia, June 24, 2019, Munich, Germany (*Keynote Talk*)
 197. **A. Ozcan**, “Deep learning in Optical Microscopy and Image Reconstruction,” OSA Imaging and Applied Optics Congress, June 24, 2019, Munich, Germany
 198. **A. Ozcan**, “Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing,” International School on Light Sciences and Technologies, Universidad Internacional Menéndez Pelayo (UIMP), June 17, 2019, Santander, Spain
 199. **A. Ozcan**, “Toward a thinking microscope: Deep learning-enabled computational microscopy and sensing,” ECI Advances in Optics for Biotechnology, Medicine and Surgery XVI, June 5, 2019, Quebec, Canada
 200. **A. Ozcan**, "Deep Learning-enabled Computational Imaging and Sensing", National Advisory Council on Biomedical Imaging and Bioengineering, National Institutes of Health (NIH) NIBIB, May 21, 2019, Maryland, USA
 201. **A. Ozcan**, "Deep Learning in Optical Microscopy and Image Reconstruction", OSA

- Conference on Lasers and Electro-optics (CLEO), May 10, 2019, San Jose, CA USA
202. **A. Ozcan**, "Deep Learning-enabled Computational Microscopy and Sensing," OSA Biophotonics Congress: Optics in the Life Sciences, April 15, 2019, Tucson, Arizona, USA (*Plenary Talk*)
 203. **A. Ozcan**, "Deep learning in optical microscopy and image reconstruction," SPIE Defense & Commercial Sensing (DCS) Conference, April 14, 2019, Baltimore, MD, USA
 204. **A. Ozcan**, "Deep-learning-enabled computational microscopy and sensing," Nature Conference on In Vitro Diagnostics, organized by Nature Biomedical Engineering, Shanghai Jiao Tong University, the China Association of In-Vitro Diagnostics, March 22, 2019, Nanchang, China
 205. **A. Ozcan**, "Toward a thinking microscope: Deep-learning-enabled computational microscopy and sensing," Tsinghua University, March 20, 2019, Beijing, China
 206. **A. Ozcan**, "Deep Learning-Enabled Computational Microscopy and Sensing," Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, Pittcon Conference, March 17, 2019, Philadelphia, PA, USA
 207. **A. Ozcan**, "Deep learning-enabled computational imaging in pathology," Cambridge Healthtech Institute, International Molecular Medicine Tri-Conference, March 11, 2019, San Francisco, CA, USA
 208. **A. Ozcan**, "Deep-learning-enabled computational imaging and sensing", NSF Workshop, Reconfigurable Sensor Systems Integrated with Artificial Intelligence and Data Harnessing to Enable Personalized Medicine, March 7, 2019, Washington DC, USA
 209. **A. Ozcan**, "Deep Learning Optics", SPIE Photonics West, OPTO Plenary Session, February 4, 2019, San Francisco, CA, USA (*Plenary Talk*)
 210. **A. Ozcan**, "Toward a thinking microscope: Deep-learning-enabled computational microscopy and sensing", SPIE Photonics West, Optical Data Science, February 6, 2019, San Francisco, CA, USA (*Keynote Talk*)
 211. **A. Ozcan**, "Super-resolution microscopy using deep learning", SPIE Photonics West, Single Molecule Spectroscopy and Superresolution Imaging, February 3, 2019, San Francisco, CA, USA
 212. **A. Ozcan**, "Deep learning in optical microscopy and image reconstruction", SPIE Photonics West, Quantitative Phase Imaging, February 3, 2019, San Francisco, CA, USA
 213. **A. Ozcan**, "Deep-learning-enabled computational imaging", SPIE Photonics West, Quantum Sensing and Nano Electronics and Photonics, February 4, 2019, San Francisco, CA, USA
 214. **A. Ozcan**, "Diffractive deep neural networks for all-optical machine learning", SPIE Photonics West, Complex Light and Optical Forces, February 6, 2019, San Francisco, CA, USA
 215. **A. Ozcan**, "Innovations at the Interface of Photonics and Medicine to Support Digital Health," Keystone Symposium, Digital Health: From Science to Application, January 22, 2019, Colorado, USA
 216. **A. Ozcan**, "Mobile Imaging and Sensing Technologies for Diagnostics," Annual CEND Symposium, Center for Emerging and Neglected Diseases (CEND), UC Berkeley, January 11, 2019, Berkeley, CA, USA
 217. **A. Ozcan**, "Deep Learning Optics," IEEE EMBS Micro and Nanotechnology in Medicine Conference, December 12, 2018, Hawaii, USA
 218. **A. Ozcan**, "Deep Learning Optics," Electrical & Computer Engineering Department Seminar Series, University of California, Davis, November 30, 2018, Davis, CA, USA
 219. **A. Ozcan**, "Deep Learning Optics," OSA Latin America Optics & Photonics Conference, November 14, 2018, Lima, Peru (*Plenary Talk*)
 220. **A. Ozcan**, "Toward a Thinking Microscope: Deep Learning in Optical Microscopy and Image Reconstruction," OSA Latin America Optics & Photonics Conference, November 14, 2018,

Lima, Peru

221. **A. Ozcan**, “Deep Learning in Optical Microscopy and Image Reconstruction,” OSA Latin America Optics & Photonics Conference, November 12, 2018, Lima, Peru (*Tutorial*)
222. **A. Ozcan**, “Deep learning-based imaging of microbiological samples,” The 38th International Turkish Microbiology Congress, November 5, 2018, Antalya, Turkey
223. **A. Ozcan**, “Mobile Microscopy and Sensing Using Computational Optics and Deep Learning,” Istanbul Technical University, October 2, 2018, Istanbul, Turkey
224. **A. Ozcan**, “Toward a Thinking Microscope: Deep Learning-enabled Computational Microscopy and Sensing,” Biomedical Engineering Department Seminar Series, Cornell University, September 28, 2018, Ithaca, NY, USA
225. **A. Ozcan**, “Deep Learning-enabled Computational Microscopy and Sensing,” The Stillman Lecture, University of Illinois, Urbana-Champaign (UIUC), September 26, 2018, Urbana, IL, USA
226. **A. Ozcan**, “Deep Learning-enabled Computational Imaging and Sensing,” ASME NanoEngineering for Medicine and Biology Conference, August 21-24, 2018, Los Angeles, CA, USA (*Plenary Talk*)
227. **A. Ozcan**, “Machine Learning Enabled Computational Imaging and Sensing for Point-of-Care Medicine and Global Health,” Workshop on Artificial Intelligence in Photonics, OSA CLEO Pacific Rim, July 30, 2018, Hong Kong
228. **A. Ozcan**, “Deep Learning-enabled Computational Imaging and Sensing,” Symposium on Micro and Nano-technologies for Medicine: Emerging Frontiers and Applications, UCLA, July 17, 2018, Los Angeles, CA, USA
229. **A. Ozcan**, “Deep Learning Enabled Computational Imaging and Sensing,” 1st International Conference on Engineering Biomedical Breakthroughs (Helmholtz Pioneer Campus), Venice International University, Isola di San Servolo, Venice, Italy, July 5, 2018 (*Keynote Talk*)
230. **A. Ozcan**, “Machine Learning Enabled Computational Imaging and Sensing for Point-of-Care Medicine and Global Health,” OSA Imaging and Applied Optics Congress, June 27, 2018, Orlando, Florida, USA (*Keynote Talk*)
231. **A. Ozcan**, “Deep Learning-enabled Computational Imaging,” University of Chicago, Institute for Biophysical Dynamics, June 15, 2018, Chicago, IL, USA
232. **A. Ozcan**, “Deep Learning-enabled Computational Imaging and Sensing,” 20th TechConnect World Innovation Conference, Chemical, Physical & Bio-Sensors Symposium, May 16, 2018, Anaheim, CA, USA
233. **A. Ozcan**, “Machine Learning and Computation Enabled Microscopy and Sensing for Point-of-Care Medicine and Global Health,” OSA Conference on Lasers and Electro-optics (CLEO), May 15, 2018, San Jose, CA, USA
234. **A. Ozcan**, “Deep Learning Enabled Computational Imaging and Sensing,” EnMed Biomedical Imaging Symposium, Houston Methodist Research Institute, April 26, 2018, Houston, Texas, USA (*Plenary Talk*)
235. **A. Ozcan**, “Deep Learning Enabled Computational Imaging and Sensing,” IEEE International Conference on Nano/Micro Engineered and Molecular Systems, April 23, 2018, Singapore (*Keynote Talk*)
236. **A. Ozcan**, “Machine Learning Enabled Computational Imaging and Sensing,” OSA Biophotonics Congress: Biomedical Optics, April 5, 2018, Florida, USA
237. **A. Ozcan**, “Computational Analysis of Particulate Matter,” Firefighter Physiological Monitoring Technology Summit, March 29, 2018, Washington, DC, USA
238. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health,” North Carolina State University, Advanced Self-Powered Systems of Integrated Sensors & Technologies Research Center, March 2, 2018, Raleigh, NC, USA

239. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics through Computational Photonics,” Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, Pittcon Conference, March 1, 2018, Orlando, FL, USA
240. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health,” Molecular Medicine Tri-Conference, Molecular Diagnostics for Infectious Diseases, February 14, 2018, San Francisco, CA, USA
241. **A. Ozcan**, “Lost in image data,” SPIE Photonics West, Optical Data Science: Trends Shaping the Future of Photonics, January 30, 2018, San Francisco, CA, USA
242. **A. Ozcan**, “Computational Microscopy, Sensing and Diagnostics,” Optics and Photonics Winter School and Workshop, College of Optical Sciences, University of Arizona, January 7, 2018, Tuscon, Arizona, USA (*Keynote Talk*)
243. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health,” California Institute of Technology (Caltech), Electrical Engineering Department, December 1, 2017, Pasadena, CA, USA
244. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics,” 1st International Duke Kunshan University Innovation Forum, Gigapixel Imaging and Spectroscopy, November 2, 2017, Kunshan, China
245. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics Using Computational Photonics,” Biodetection and Biosensors Conference, Select Biosciences Meeting, Murray Edwards College, October 11, 2017, Cambridge, UK (*Keynote Talk*)
246. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health,” University College London, October 9, 2017, London, UK
247. **A. Ozcan**, “Mobile microscopy, sensing and diagnostics through computational photonics,” IEEE Photonics Society Webinar, September 27, 2017
248. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” IEEE Photonics Society Distinguished Lecture – The College of Optics & Photonics, CREOL, University of Central Florida, September 20, 2017, Florida, USA
249. **A. Ozcan**, “Mobile microscopy, sensing and diagnostics through computational photonics,” Department of Physics Colloquium, University of South Florida, September 19, 2017, Florida, USA
250. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” Biomedical Engineering Department Seminars, Tufts University, September 18, 2017, Boston, MA, USA
251. **A. Ozcan**, “Mobile microscopy, sensing and diagnostics through computational photonics,” Chemistry and Biochemistry Seminars, California State University, Los Angeles, August, 29 2017, Los Angeles, CA, USA
252. **A. Ozcan**, "Bio-Markers and Point-of-Care Technologies," UCLA-NIH mHealth Summer Training Institute, August 8, 2017, Los Angeles, CA, USA
253. **A. Ozcan**, “Rapid high-throughput detection and automated counting of coliform bacteria and *Escherichia coli* using an on-chip imaging system” Army Research Office (ARO) - NASA Life Sciences Review Meeting, NASA Ames Research Center, July 31, 2017, Mountain View, CA, USA
254. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” Changchun Institute of Optics, Chinese Academy of Sciences, OSA Student Chapter, July 19, 2017, Changchun, China
255. **A. Ozcan**, “Mobile microscopy, sensing and diagnostics through computational photonics,” Light Conference, July 18, 2017, Changchun, China
256. **A. Ozcan**, “Mobile microscopy, sensing and diagnostics through computational photonics,”

- VII International Congress on Analytical Nanoscience and Nanotechnology, July 4, 2017, Barcelona, Spain (*Plenary Talk*)
257. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics through Computational Photonics,” Summer School on Smartphone-based Food Analysis, Wageningen University, June 30, 2017, Wageningen, The Netherlands
 258. **A. Ozcan**, “Computational Microscopy, Sensing and Diagnostics,” European Conferences on Biomedical Optics (ECBO) – OSA and SPIE, June 27, 2017, Munich, Germany (*Plenary Talk*)
 259. **A. Ozcan**, “Applications of holographic on-chip microscopy,” SPIE Optical Metrology Conference, Optical Methods for Inspection, Characterization, and Imaging of Biomaterials, June 27, 2017, Munich, Germany (*Keynote Talk*)
 260. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostic through Computational Photonics,” IEEE Photonics Society Distinguished Lecture - Poland Chapter, AGH University of Science and Technology, June 23, 2017, Krakow, Poland
 261. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” Pathology Informatics Summit, May 22, 2017, Pittsburgh, PA, USA
 262. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics through Computational Photonics,” ICFO – The Institute of Photonic Sciences, Light for Health Seminars, May 5, 2017, Barcelona, Spain
 263. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics through Computational Photonics,” IEEE NEMS Conference: Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems, April 9-12, 2017, Los Angeles, CA, USA
 264. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” IEEE Photonics Society Distinguished Lecture Series, University of California, Santa Barbara (UCSB), April 5, 2017, Santa Barbara, CA
 265. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” Global Good, Intellectual Ventures Lab, March 13, 2017, Seattle, WA
 266. **A. Ozcan**, “Computational Imaging, Sensing and Diagnostics,” Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, Pittcon Conference, March 6, 2017, Chicago, IL, USA
 267. **A. Ozcan**, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics,” IEEE CLAS Computer Society Seminar, Loyola Marymount University, February 23, 2017, Los Angeles, CA, USA
 268. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” SPIE Photonics West, Biophotonics Executive Forum, January 31, 2017, San Francisco, CA
 269. **A. Ozcan**, “Applications of holographic on-chip microscopy,” SPIE Photonics West, Quantitative Phase Imaging III, January 30, 2017, San Francisco, CA
 270. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” Rahmi M. Koç Science Medal Lecture, Koç University, December 6, 2016, Istanbul, Turkey
 271. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics Technologies,” University of Texas, Southwestern Medical Center, November 17, 2016, Dallas, TX, USA
 272. **A. Ozcan**, “High-throughput Imaging and Sensing through Computational Photonics,” U.S. Army Research Laboratory, Adephe Laboratory Center, November 15, 2016, Adephe, MD, USA
 273. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics Technologies for Telemedicine and Global Health Applications,” KTH - Royal Institute of Technology, Life Sciences Technology Day, November 11, 2016, Stockholm, Sweden
 274. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” Stanford Optical Society Seminar, Stanford University, September 29, 2016, Stanford, CA, USA

275. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” Science & Technology Seminar Series, Illimuna Inc., September 29, 2016, San Francisco, CA, USA
276. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics through Computational Photonics,” MESA+ Meeting, MESA+ Institute for Nanotechnology, University of Twente, September 26, 2016, Enschede, The Netherlands (*Keynote Talk*)
277. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” Tech Forum, 3M Company, September 19, 2016, Minneapolis, Minnesota, USA
278. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” The Annual Meeting of The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) – SciX Conference, September 18, 2016, Minneapolis, Minnesota, USA (*Keynote Talk*)
279. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics,” National Meeting of Electromagnetism, University of Parma, September 13, 2016, Parma, Italy (*Plenary Talk*)
280. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools Through Computational Photonics,” SPIE Lecture, Consiglio Nazionale delle Ricerche, CNR-Naples, September 12, 2016, Naples, Italy
281. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools Through Computational Photonics,” Rice University, Electrical and Computer Engineering Department Seminar Series, September 1, 2016, Houston, TX, USA
282. **A. Ozcan**, "Point of Care Technologies for Limited Resource Settings," UCLA-NIH mHealth Summer Training Institute, August 9, 2016, Los Angeles, CA, USA
283. **A. Ozcan**, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics” Gordon Research Conference (GRC), The Use of Big Data in Health Related Research, The Chinese University of Hong Kong, July 21, 2016, Hong Kong, China
284. **A. Ozcan**, “High-throughput analysis of horse sperm 3D swimming patterns using computational on-chip imaging” Association for Applied Animal Andrology (AAAA) Biennial Conference, June 26, 2016, Tours, France (*Plenary Talk*)
285. **A. Ozcan**, “Lost in Image Data?” International School on Light Sciences and Technologies, Universidad Internacional Menéndez Pelayo (UIMP), June 22, 2016, Santander, Spain
286. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics” International School on Light Sciences and Technologies, Universidad Internacional Menéndez Pelayo (UIMP), June 20, 2016, Santander, Spain
287. **A. Ozcan**, "Mobile Imaging, Sensing and Diagnostics," 17th Annual UC Systemwide Bioengineering Symposium, June 13, 2016, University of California, San Francisco, CA, USA
288. **A. Ozcan**, “c-AIR: Computational Microscopy and Big Data Analytics Platform for Measuring Indoor and Outdoor Pollutants, Bio-Aerosols and Toxins” Social Innovation Summit, June 8, 2016, Washington DC, USA
289. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics” 26th Anniversary World Congress on Biosensors (Biosensors Congress, Elsevier), May 25, 2016, Gothenburg, Sweden (*Plenary Talk*)
290. **A. Ozcan**, “Mobile-phone based imaging, sensing and diagnostics technologies” Summer School on Mobile Diagnostics, Biosensors Congress, Elsevier, May 24, 2016, Gothenburg, Sweden
291. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics” *Ernst Abbe Lecture*, International Conference on Applied

- Optics and Photonics (organized by ICO and DGaO), May 19, 2016, Hannover, Germany
292. **A. Ozcan**, “Computational Microscopy, Sensing and Diagnostics,” IEEE International Conference on Computational Photography (ICCP), Northwestern University, May 14, 2016, Evanston, IL (*Keynote Talk*)
 293. **A. Ozcan**, “Mobile Microscopy, Sensing and Diagnostics Using Computational Photonics,” King Abdulaziz City for Science and Technology, Materials Science Research Institute, May 9, 2016, Riyadh, Saudi Arabia
 294. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools Through Computational Photonics,” University of Washington, Bioengineering Seminar Series, April 7, 2016, Seattle, WA, USA
 295. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools,” Lab-on-a-Chip & Microfluidics Conference, Select Biosciences Meeting, March 16, 2016, Madrid, Spain (*Keynote Talk*)
 296. **A. Ozcan**, “Mobile-phone based imaging, sensing and diagnostics technologies,” Cambridge Healthtech Institute, International Molecular Medicine Tri-Conference, March 8, 2016, San Francisco, CA, USA
 297. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools Through Computational Photonics,” University of California, Los Angeles, Department of Chemistry and Biochemistry, Physical Chemistry Seminar Series, February 22, 2016, Los Angeles, CA, USA
 298. **A. Ozcan**, “On-chip microscopy, sensing and diagnostics,” SPIE Photonics West, Quantum Sensing, Nano Electronics and Photonics XIII, February 15, 2016, San Francisco, CA, USA
 299. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools Through Computational Photonics,” University of California, Berkeley, 13th Annual Advanced Imaging Methods Workshop, February 12, 2016, Berkeley, CA, USA
 300. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics,” The International Year of Light Symposium, University of Arizona, College of Medicine, January 20, 2016, Phoenix, Arizona, USA (*Keynote Lecture*)
 301. **A. Ozcan**, “Mobile Imaging, Sensing and Diagnostics,” The 20th Annual UCLA Health Care Symposium, University of California, Los Angeles, January 9, 2016, Los Angeles, CA, USA
 302. **A. Ozcan**, “Next-Generation Biomedical Imaging, Sensing and Diagnostics Technologies,” U.S. National Academy of Sciences, Arab-American Frontiers of Science, Engineering, and Medicine Symposium, December 6, 2015, KAUST, Saudi Arabia
 303. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics,” University of Houston, Physics Department Colloquium, November 24, 2015, Houston, Texas, USA
 304. **A. Ozcan**, “A computational look at nano-scale toward giga-pixel nanoscopy,” IEEE International Conference on Nano/Molecular Medicine and Engineering - IEEE NanoMed Conference, November 15, 2015, Hawaii, USA
 305. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics,” U.S. Defense Threat Reduction Agency (DTRA), November 2, 2015, Washington DC, USA
 306. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics,” Massachusetts General Hospital, Wellman Center for Photomedicine 40th anniversary meeting, October 30, 2015, Boston, Massachusetts, USA
 307. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics,” Florida International University, Wallace H. Coulter Biomedical Engineering Distinguished Lecture Series, Annual Research Day, October 23, 2015, Florida, USA (*Keynote Talk*)

308. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics,” Stanford University, The Stanford Center for Image Systems Engineering Colloquia, October 20, 2015, Palo Alto, California, USA
309. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics,” OSA Frontiers in Optics (FiO) Conference, October 19, 2015, San Jose, California, USA
310. **A. Ozcan**, “Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools Through Computational Photonics,” NASA Jet Propulsion Laboratory, JPL Medical Engineering Distinguished Lecturer Series, October 8, 2015, Pasadena, California, USA
311. **A. Ozcan**, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics,” Swiss Federal Institute of Technology in Lausanne (EPFL), Distinguished Lecture in Biological Engineering, October 5, 2015, Lausanne, Switzerland
312. **A. Ozcan**, “Mobile Imaging, Sensing and Medical Diagnostics,” The New York Academy of Sciences, Mobile Health Conference, September 30, 2015, New York, USA
313. **A. Ozcan**, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics,” University of Arizona, College of Optical Sciences Colloquium, September 24, 2015, Tucson, Arizona, USA
314. **A. Ozcan**, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics,” 11th International Conference on Micro- to Nano-Photonics IV - ROMOPTO 2015, September 1, 2015, Bucharest, Romania
315. **A. Ozcan**, "Developing Sensor Technologies for Low Resource Settings," UCLA-NIH mHealth Summer Training Institute, August 26, 2015, Los Angeles, CA, USA
316. **A. Ozcan**, “Biomedical Imaging, Sensing and Diagnostics: Now vs. the Future,” Association for Computing Machinery (ACM) SIGGRAPH Conference, SIGGRAPH Next, August 12, 2015, Los Angeles, CA, USA
317. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing, Diagnostics Tools through Computational Photonics,” SPIE Optics & Photonics Conference, August 11, 2015, San Diego, CA, USA (*Plenary Talk*)
318. **A. Ozcan**, “Mobile imaging, sensing and medical diagnostics,” Blavatnik Science Symposium, The New York Academy of Sciences, August 6, 2015, New York, USA
319. **A. Ozcan**, “Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics,” American Association for Clinical Chemistry (AACC) Annual Meeting, July 30, 2015, Atlanta, Georgia, USA
320. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Toward Connected Health,” The President’s Cancer Panel, The Connected Cancer Patient Workshop, July 9, 2015, Chicago, IL, USA
321. **A. Ozcan**, “Program for Translational Biophotonics and Telemedicine,” HHMI Professors Annual Meeting, Howard Hughes Medical Institute (HHMI), July 8, 2015, Chevy Chase, MD, USA
322. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools through Computational Photonics,” Seminar at Corporate Research and Technology – Zeiss, Carl-Zeiss Promenade, June 25, 2015, Jena, Germany
323. **A. Ozcan**, “Lens-free On-chip Microscopy for Biomedical Imaging, Sensing and Diagnostics,” Conference on Lasers and Electro-optics (CLEO-Europe, organized by OSA, IEEE and EPS), June 24, 2015, Munich, Germany (*Keynote Talk*)
324. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools through Computational Photonics,” 3rd European Optical Society (EOS) Conference on Optofluidics, June 23, 2015, Munich, Germany
325. **A. Ozcan**, “Democratization of Next-Generation Imaging, Sensing and Diagnostic Tools,”

- Pathology Diagnostics Conference, GTCbio, June 12, 2015, San Diego, CA (**Keynote Talk**)
326. **A. Ozcan**, "Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics", Biophotonic Imaging for Medicine: A Digital Conference, June 11, 2015 – Webinar (**Keynote Talk**)
 327. **A. Ozcan**, "Democratization of Next-Generation Imaging, Sensing and Diagnostic Tools Through Computational Photonics," University of California, San Diego (UCSD), Center for Excellence in Nanomedicine and Engineering (CNME), Frontiers of Therapeutic and Diagnostic Delivery Seminar Series, May 27, 2015, San Diego, CA
 328. **A. Ozcan**, "Democratization of Next-Generation Imaging, Sensing and Measurement Tools Through Computational Photonics," KAUST University of Science and Technology, Sensor Innovation Workshop, May 24, 2015, Saudi Arabia
 329. **A. Ozcan**, "Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools", Re-engineering BioMed Engineering Symposium, Hong Kong Science Park, May 14, 2015, Hong Kong (**Keynote Lecture**)
 330. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics", International Semiconductor Science and Technology Conference (ISSTC), May 11, 2015, Izmir, Turkey
 331. **A. Ozcan**, "A computational look at nano-scale toward giga-pixel nanoscopy", SPIE Defense, Security, and Sensing Conference, April 21, 2015, Baltimore, MD, USA
 332. **A. Ozcan**, "Democratization of Next-Generation Imaging, Sensing and Diagnostics Tools Through Computational Photonics", IEEE International Symposium on Biomedical Imaging (IEEE ISBI), Tutorial on Point-of-care Imaging Systems, April 16, 2015, New York, NY, USA
 333. **A. Ozcan**, "Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools," Karolinska Institutet, Mobile Microscopy Symposium, March 26, 2015, Stockholm, Sweden (**Keynote Talk**)
 334. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics," MIT Media Lab, March 13, 2015, Cambridge, MA, USA
 335. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics," 2nd International Conference on Label-Free Technologies, March 13, 2015, Cambridge, MA, USA
 336. **A. Ozcan**, "How Technology is Transforming Diagnostics," ASME Webinar, American Society of Mechanical Engineers, March 11, 2015
 337. **A. Ozcan**, "Democratization of Next-Generation Imaging, Sensing and Measurement Tools Through Computational Photonics," Society for Brain Mapping and Therapeutics (SBMT), Annual Congress, March 6, 2015, Los Angeles, CA, USA
 338. **A. Ozcan**, "Democratization of Diagnostics Tools Through Computational Imaging and Sensing," AAAS Annual Meeting, Symposium on Affordable Diagnostics for All: High-Resolution Medical Imaging for Saving Lives, February 14, 2015, San Jose, CA, USA
 339. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics," Biophysical Society Annual Meeting, February 10, 2015, Baltimore, MD, USA
 340. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics," University of Michigan, Ann Arbor, Electrical Engineering and Computer Science Department Seminar, February 9, 2015, Ann Arbor, MI, USA
 341. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics," UCLA Department of Pediatrics, Grand Rounds, January 30, 2015, Los Angeles, CA, USA
 342. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools

- Through Computational Photonics,” Gordon Research Conference (GRC), Physical Virology, January 28, 2015, Ventura, CA, USA
343. **A. Ozcan**, "Smartphone and Mobile Diagnostics", Prognostic, Predictive, and Point-of-care: Biomarkers from Research to Clinic, Select Biosciences Conference, January 16, 2015, San Diego, CA, USA (*Keynote Talk*)
 344. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", Boston University, Photonics Center, December 15, 2014, Boston, MA, USA
 345. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", IEEE EMBS Micro and Nanotechnology in Medicine (MNM) Conference December 8, 2014, Oahu, Hawaii, USA
 346. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", International Conference for Micro & Nanotechnologies for the Bioscience, November 17, 2014, Montreux, Switzerland (*Keynote Talk*)
 347. **A. Ozcan**, "Lensfree Microscopy", Label-free Particle Sorting (LAPASO) Meeting and Workshop, November 16, 2014, Montreux, Switzerland
 348. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", Bioscience 2014 Meeting, Karolinska Institutet, November 4, 2014, Stockholm, Sweden (Teleconference)
 349. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", University of California, San Diego (UCSD) Bioengineering Department, October 24, 2014, San Diego, CA, USA
 350. **A. Ozcan**, "Next Generation Micro-analysis and Diagnosis Using Computational Imaging, Crowd-sourcing and Gaming", 5th International Eurasian Hematology Congress, October 15, 2014, Antalya, Turkey (*Keynote Talk*)
 351. **A. Ozcan**, "A computational look at nano-scale toward giga-pixel nanoscopy", Graphene and Related Technologies Workshop, October 13, 2014, Istanbul, Turkey
 352. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", Duke University, Fitzpatrick Institute for Photonics, Fitzpatrick Distinguished Lecture, October 8, 2014, Durham, NC, USA
 353. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", University of Miami, The 7th Annual Nanoscience Technology Symposium (NanoFlorida), September 25, 2014, Miami, FL, USA (*Plenary Talk*)
 354. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", University of Delaware, ECE Distinguished Lecturer Series, September 24, 2014, Newark, DE, USA
 355. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools", Strategies in Biophotonics Conference, September 11, 2014, Boston, MA USA (*Keynote Talk*)
 356. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools through Computational Photonics", Wyss Institute, Harvard University, September 10, 2014, Boston, MA USA
 357. **A. Ozcan**, "Next-Generation Imaging and Diagnostics through Mobile Phones," Next Generation Diagnostics Summit, Washington, DC, USA (August 19, 2014)
 358. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," SPIE Optics and Photonics Conference, San Diego, CA USA (August 18, 2014)
 359. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications,” Gordon Research Conference (GRC), Lasers in Medicine & Biology, Holderness, NH (July 17, 2014)

360. **A. Ozcan**, "Democratization of Diagnostics and Measurement Tools through Computational Imaging and Sensing", Global Health Summer Institute, University of Washington, July 15, 2014, Seattle, WA USA
361. **A. Ozcan**, "Democratization of Diagnostics and Measurement Tools through Computational Imaging and Sensing", OSA Optics & Photonics Congress, Imaging and Applied Optics, July 14, 2014, Seattle, WA USA
362. **A. Ozcan**, "Novel Imaging Techniques Through Computational Photonics," Blavatnik Science Symposium, The New York Academy of Sciences, New York, USA (July 9, 2014)
363. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools using Mobile Phones," New Frontiers in Digital Technologies for Influenza: Big data and Mobile-Phone Connected Diagnostic Tests, The Institute of Materials, London, UK (June 26, 2014)
364. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics", IEEE EMBS International Summer School on Biomedical Imaging, June 19-20, 2014, Saint-Jacut de la Mer, Brittany, France
365. **A. Ozcan**, "Computational Imaging and Sensing for Biophotonics Applications", OSA Conference on Lasers and Electro-optics (CLEO '14), June 12, 2014, San Jose, CA USA
366. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools using Computational Photonics," University of Tokyo, Department of Chemistry, Tokyo, Japan (June 10, 2014)
367. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools using Computational Photonics," University of Southern California, Keck School of Medicine, Department of Preventive Medicine, Los Angeles, CA (June 6, 2014)
368. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics," University of Illinois, Urbana-Champaign (UIUC), Biophotonics Summer School, Urbana-Champaign, IL (May 26, 2014)
369. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools using Mobile Phones," SPIE Translational Biophotonics Conference, Rice University, Houston, TX (May 20, 2014)
370. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics for Telemedicine and Global Health," American Society of Microbiology (ASM) General Meeting, Boston, MA (May 19, 2014)
371. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools using Mobile Phones," KTH - Royal Institute of Technology, Sweden (May 16, 2014)
372. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," MicroNano System Workshop, Uppsala, Sweden (May 15, 2014) (*Plenary Talk*)
373. **A. Ozcan**, "BioGames: Crowd-sourced Games for Malaria Diagnosis and Tele pathology," World Malaria Day, Bay Area Symposium, Berkeley, CA (April 25, 2014)
374. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," Istanbul University, Cerrahpasa Medical School, Istanbul, Turkey (April 16, 2014)
375. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," XII Conference on Optical Chemical Sensors and Biosensors (EUROPT(R)ODE), Athens, Greece (April 15, 2014) (*Plenary Talk*)
376. **A. Ozcan**, "BioGames: Crowd-sourced Games for Tele pathology," University of Southern California, Global Health Awareness Week, Los Angeles, CA (March 31, 2014)
377. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," Yale University, School of Medicine, Bioimaging Sciences Seminar Series, New Haven, CT (March 25, 2014)
378. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," Vanderbilt University, SPIE Student Chapter, Nashville, TN (March 21, 2014)
379. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," Texas A&M University,

- Biomedical Engineering Department Seminar Series, College Station, TX (March 17, 2014)
380. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," Google, Mountain View, CA (February 27, 2014)
 381. **A. Ozcan**, "Translational Research on Mobile Phone based Imaging, Sensing and Diagnostics Tools," KAUST University of Science and Technology, Saudi Arabia (February 10, 2014) (*Keynote Talk*)
 382. **A. Ozcan**, "Cellphone based Imaging, Sensing and Diagnostics for Global Health," NCI-NIBIB Point of Care Technologies for Cancer Conference, National Institutes of Health (NIH), Bethesda, MD (January 8, 2014)
 383. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics," University of California, Riverside, Department of Electrical Engineering, Riverside, CA (January 6, 2014)
 384. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics," Naval Health Research Center, San Diego, CA (December 11, 2013)
 385. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics," University of California, Davis, Department of Electrical and Computer Engineering, Davis, CA (December 6, 2013)
 386. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics," Turkish Innovation Week, Istanbul, Turkey (November 28, 2013)
 387. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," MIT Lester Wolfe Workshop, Boston, MA (November 19, 2013)
 388. **A. Ozcan**, "Giga-pixel Nanoscopy on a Chip: A Computational Wide-field Look at the Nano-scale Without the Use of Lenses," NIH Common Fund High-Risk High-Reward Research Symposium, National Institutes of Health (NIH), Bethesda, MD (November 18, 2013)
 389. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," International Conference on Electronics Computer and Computation (ICECCO), Ankara, Turkey (November 8, 2013) (*Plenary Talk*)
 390. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics," ETH Zurich, Department of Biosystems Science and Engineering, Switzerland (November 1, 2013)
 391. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics," MicroTAS 2013 - The 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Freiburg, Germany (October 29, 2013) (*Plenary Talk*)
 392. **A. Ozcan**, "Smartphone based microscopy, biomedical sensing and diagnostics," MicroTAS 2013 - The 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Workshop on Point-of-Care Platforms for Clinical Diagnostics, Freiburg, Germany (October 27, 2013)
 393. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," Hewlett-Packard (HP) Laboratories R&D Engineering Seminar, Palo Alto, CA (October 23, 2013)
 394. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," IEEE Global Humanitarian Technology Conference (GHTC), San Jose, CA (October 21, 2013) (*Plenary Talk*)
 395. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," UC Berkeley EECS Department, Berkeley, CA (October 21, 2013)
 396. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," University of Maryland, Qualcomm Microsystems Seminar Series, October 15, 2013, College Park, MD, USA
 397. **A. Ozcan**, "Computational Imaging On a Chip," OSA Frontiers in Optics (FiO), October 7, 2013, Orlando, Florida, USA
 398. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," Southern Illinois University, Department of Chemistry and

- Biochemistry, September 13, 2013, Carbondale, IL, USA
399. **A. Ozcan**, "Computational Imaging and Diagnosis for Telemedicine and Global Health," Ohio State University, Science Sundays, September 8, 2013, Columbus, OH, USA
 400. **A. Ozcan**, "mHealth Technologies for Resource-Poor Settings," UCLA-NIH mHealth Summer Institute, August 27, 2013, Los Angeles, CA, USA
 401. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," Bilkent University, International Workshop on Cleanroom Training for Critical and Sustainable Technologies, July 1, 2013, Ankara, Turkey (*Plenary Talk*)
 402. **A. Ozcan**, "Computational On-chip Imaging," OSA Computational Optical Sensing and Imaging (COSI), June 27, 2013, Arlington, Virginia, USA
 403. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," Sharp Laboratories of America, Technical and Innovation Colloquium, June 14, 2013, Camas, WA, USA
 404. **A. Ozcan**, "Computational On-Chip Imaging Toward Telemedicine Applications," OSA Conference on Lasers and Electro-optics (CLEO '13), June 10, 2013, San Jose, CA USA
 405. **A. Ozcan**, "Lensfree Computational Imaging," SPIE Optical Metrology Conference, May 16, 2013, Munich, Germany
 406. **A. Ozcan**, Panelist on 'Bioscience Discoveries', Milken Institute Global Conference, May 1, 2013, Los Angeles, CA
 407. **A. Ozcan**, "Cell phone-based imaging and sensing architectures," SPIE Defense, Security, and Sensing Conference, April 29 2013, Baltimore, USA
 408. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics on a Cellphone," HIMSS Annual Health Care IT Conference, April 10, 2013, Los Angeles, CA
 409. **A. Ozcan**, "Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications," IEEE 8th International Conference on Intelligent Sensors, Sensor Networks and Information Processing (IEEE ISSNIP), April 5, 2013, Melbourne, Australia (*Plenary Talk*)
 410. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," *Qualcomm Inc.*, March 27, 2013, San Diego, CA
 411. **A. Ozcan**, "Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications," Faculty of Engineering and Natural Sciences, *Sabanci University*, March 22 2013, Istanbul, Turkey
 412. **A. Ozcan**, "Computational Imaging Toward Digital Diagnosis and Telemedicine Applications," *Istanbul Technical University (ITU)*, March 21, 2013, Istanbul, Turkey
 413. **A. Ozcan**, "Lensfree on-chip microscopy and tomography toward telemedicine applications," XXVI Image Analysis Course, University of La Laguna, Tenerife, Spain (March 5, 2013)
 414. **A. Ozcan**, "Photonics-based Telemedicine Technologies toward Smart Global Health Systems," *AAAS Annual Meeting*, February 16, 2013, Boston, Massachusetts, USA
 415. **A. Ozcan**, "Computational microscopy, sensing, and diagnostics on a cellphone," *IS&T - SPIE Electronic Imaging Conference*, San Francisco, California (February 5, 2013)
 416. **A. Ozcan**, "Lensfree on-chip microscopy and tomography toward telemedicine applications," *SPIE Photonics West*, Microfluidics, BioMEMS, and Medical Microsystems XI, San Francisco, California (February 4, 2013)
 417. **A. Ozcan**, "Rapid and Cost-effective Blood Analysis on a Cellphone," Southern California Healthcare Technology Acceleration Program, University of California, San Diego (UCSD) von-Liebig Center, San Diego, California (January 29, 2013)
 418. **A. Ozcan**, "Computational Imaging for Telemedicine and High-throughput Analysis," Cell Based Assays, Cell-Tech Conference, San Diego, California (January 22, 2013)

419. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” The Society for Laboratory Automation and Screening (SLAS) Annual Conference, Orlando, Florida (January 16, 2013)
420. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” ICFO – The Institute of Photonic Sciences, SPIE Student Chapter Lecture, Barcelona, Spain (December 14, 2012)
421. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” Ben-Gurion University, SPIE Student Chapter Lecture, Israel (December 12, 2012)
422. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” SPIE 1st International Biophotonics Meeting in Israel, Tel Aviv, Israel (December 11, 2012) (*Plenary Talk*)
423. **A. Ozcan**, “Photonics based Telemedicine Technologies,” National Informatics Congress, Ankara, Turkey (November 21, 2012)
424. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” University of California, Riverside, Bioengineering Department Colloquium, Riverside, CA (November 14, 2012)
425. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” Nanjing University of Science and Technology, Advanced Laser Applications in Science and Engineering, Nanjing, China (November 2, 2012) (*Plenary Talk*)
426. **A. Ozcan**, “Computational Microscopy and Tomography Toward Telemedicine Applications,” Cytometry Development Workshop, Monterey, CA (October 27, 2012)
427. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” University of Southern California (USC), Molecular and Computational Biology Seminar Series, Los Angeles, CA (October 19, 2012)
428. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” University of California, Irvine, College of Medicine, Medical Scientist Training Program, Lake Arrowhead, CA (October 6, 2012) (*Keynote Talk*)
429. **A. Ozcan**, “Optofluidic fluorescent imaging cytometry on a cellular phone,” 2nd AMI-4-Europe Conference on Medical Imaging, Hannover, Germany (September 29, 2012) (*Keynote Talk*)
430. **A. Ozcan**, “Computational Microscopy and Tomography Tools for Telemedicine Applications,” National Photonics Conference, Koc University, Istanbul, Turkey (September 14, 2012) (*Plenary Talk*)
431. **A. Ozcan**, “Computational Microscopy Toward Telemedicine Applications,” Next Generation Medical Imaging Workshop, Carnegie Mellon University, Pittsburg, USA (September 5, 2012)
432. **A. Ozcan**, “Computational Imaging Tools for Point-of-care Diagnostics,” IEEE Engineering in Medicine and Biology Society (EMBC'12), San Diego, CA, USA (August 30, 2012)
433. **A. Ozcan**, “Digital Diagnosis Using Cellphones,” XIX International AIDS Conference, Washington, DC, USA (July 22 - 27, 2012)
434. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” OSA Imaging Systems and Applications (IS) & Applied Industrial Optics: Spectroscopy, Imaging and Metrology (AIO), June 27, 2012, Monterey, CA USA
435. **A. Ozcan**, “Digital Diagnosis Using Cellphones,” USAID Frontiers in Development Forum, Georgetown University, June 12, 2012, Washington, DC
436. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” NSF CBET Conference, June 6, 2012, Baltimore, MD
437. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” Stanford University, Optical Society, May 10, 2012, Stanford, CA

438. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” Electrical and Systems Engineering Department Seminar Series, University of Pennsylvania, April 26, 2012, Philadelphia, PA
439. **A. Ozcan**, “Lensfree on-chip microscopy and tomography” SPIE Defense, Security, and Sensing Conference, April 25 2012, Baltimore, USA
440. **A. Ozcan**, “New imaging and sensing architectures for telemedicine and global healthcare” SPIE Defense, Security, and Sensing Conference, April 23 2012, Baltimore, USA
441. **A. Ozcan**, “BioPhotonics Technologies for Global Health,” 9th Annual Unite for Sight Global Health & Innovation Conference, Yale University, April 21, 2012, New Haven CT
442. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” American Institute of Physics (AIP) Industrial Physics Forum, International Centre for Theoretical Physics (ICTP), April 18, 2012, Trieste Italy
443. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” Future Diagnostics Conference, University of California, Irvine, April 16, 2012, Irvine, CA
444. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” Annual Meeting of Texas Society for Microscopy, April 13, 2012, Fort Worth, Texas
445. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” Stanford Symposium for Biomedical Imaging, Stanford University, April 5, 2012, Stanford, CA
446. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” BioNJ Innovation Summit, Princeton University, March 14, 2012, Princeton, NJ
447. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” Turkish American Scientists and Scholars Association (TASSA) Annual Conference, University of Maryland, March 3, 2012, College Park, MD
448. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” *Google*, February 23, 2012, Venice, Los Angeles, CA
449. **A. Ozcan**, “Microscopy on a Cell-phone as a Diagnostic Tool,” AAAS Annual Meeting, February 19, 2012, Vancouver, Canada
450. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” Italian National Conference on Sensors, February 17, 2012, Rome, Italy (*Plenary Talk*)
451. **A. Ozcan**, “Ultra-high Throughput On-Chip Microscopy and Cytometry Using Lensfree Computational Imaging,” The Society for Laboratory Automation and Screening (SLAS) Annual Conference, February 8, 2012, San Diego, CA
452. **A. Ozcan**, “Microscopy on a Cellphone: An Emerging Telemedicine Platform,” TEDx BigApple, Disruptive Ideas, February 4, 2012, New York, NY
453. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” SPIE Photonics West, Fellows Luncheon, January 23, 2012, San Francisco, CA
454. **A. Ozcan**, “Lensless Microscopy and Sensing on a Chip,” SPIE Photonics West, Frontiers in Biological Detection: From Nanosensors to Systems, January 22, 2012, San Francisco, CA
455. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” University of California, San Diego (UCSD) Entrepreneur Challenge, January 11, 2012, San Diego, CA (*Plenary Talk*)
456. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” IEEE Engineering in Medicine and Biology Society (EMBS), Buenaventura Chapter, December 7, 2011, Thousand Oaks, CA

457. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” University of California, San Diego (UCSD) Electrical Engineering Department and von-Liebig Center, December 7, 2011, San Diego, CA
458. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” University of Colorado, Boulder, Computational Optical Sensing and Imaging (COSI) Seminar Series, November, 14 2011, Boulder, Colorado
459. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” mHealthSys Workshop - Association for Computing Machinery (ACM) SenSys 2011, November, 1 2011, Seattle, Washington (*Plenary Talk*)
460. **A. Ozcan**, “Lensless Microscopy and Sensing on a Chip,” Optical Society of America (OSA), Frontiers in Optics (FiO) Conference, October 19, 2011, San Jose, CA
461. **A. Ozcan**, “Lensfree Inexpensive Microscopy,” Pathology Informatics Meeting, October 5, 2011, Pittsburgh, PA (*Plenary Talk*)
462. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography,” European Optical Society (EOS) Topical Meeting on Optical Microsystems, September 26, 2011, Capri, Italy
463. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” Boston University, Department of Electrical and Computer Engineering, September 1, 2011 Boston, MA USA
464. **A. Ozcan**, “Use of Nano-structured Surfaces to Enable Higher Resolution Detector Arrays for Lensfree Imaging and Sensing on a Chip,” Nanoelectronic Devices for Defense and Security Conference (Nano DDS), August 30, 2011, Brooklyn, New York
465. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” National Academies Panel on Harnessing Light: Capitalizing on Optical Science Trends and Challenges for Future Research, National Academies’ Beckman Center, August 24, 2011, Irvine, CA, USA
466. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” NIH, National Cancer Institute, Workshop on Cancer Detection and Diagnostics Technologies for Global Health, August 22, 2011, Rockville, Maryland, USA
467. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” SPIE Optics and Photonics Conference, Keynote Speech, Student Leadership Workshop, August 21, 2011, San Diego, CA, USA
468. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Bio-Rad Laboratories, iTalk Series*, July 19, 2011, Hercules, CA
469. **A. Ozcan**, “Microscopy on a Cell-phone as a Diagnostic Tool,” *UC San Diego, Wireless Health Innovation Challenge; Von Liebig Center*, 28 June 2011, San Diego, CA
470. **A. Ozcan**, “Lensfree On-Chip Imaging for Telemedicine and Battlefield Diagnostics” Office of Naval Research, Biosciences and Biocentric Technology Annual Program Review, 21 June 2011, Arlington, VA
471. **A. Ozcan**, “Lensfree Microscopy On a Chip,” Microscopical Society of Canada, 38th Annual Meeting, June 7, 2011, Ottawa, Canada
472. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” ECI Advances in Optics for Biotechnology, Medicine & Surgery XII, June 5, 2011, Naples, Florida
473. **A. Ozcan**, “Lensfree On-Chip Microscopy and Tomography Toward Telemedicine Applications,” *Applied Physics Seminar Series, Caltech*, May 18, 2011, Pasadena, CA
474. **A. Ozcan**, “Cost-Effective and Compact Microscopic Analysis and Diagnosis on a Cell Phone,” World Reconstruction Conference, Innovation Competition Awardee, May 11, 2011, Geneva, Switzerland

475. **A. Ozcan**, “Lensfree Holographic Microscopy for Global Health Applications,” OSA Digital Holography and Three Dimensional Imaging, May 9, 2011, Tokyo, Japan
476. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Arizona Cytology Association, Spring Seminar Series*, April 30, 2011, Tempe, Arizona
477. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *8th Annual Unite for Sight Conference - Global Health & Innovation, Yale University*, April 17, 2011, New Haven CT
478. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *University of Southern California, W.V.T. Rusch Engineering Honors Colloquium*, April 15, 2011, Los Angeles CA
479. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Rice University, Global Health Technologies Symposium*, April 9, 2011, Houston TX
480. **A. Ozcan**, “Lensfree Microscopy On a Chip,” *OSA Topical Meeting, Novel Techniques in Microscopy*, April 6, 2011, Monterey, CA
481. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Stanford University BioEngineering Department*, April 4, 2011, Stanford CA
482. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Harvard Global Infectious Diseases Symposium*, Harvard Medical School, March 28, 2011, Boston MA
483. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *IBM T. J. Watson Research Center, Physical Sciences Seminar*, 11 March 2011, Yorktown Heights, New York
484. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” World Bank, Human Development Forum, 1 March 2011, Washington DC
485. **A. Ozcan**, “Telemedicine Devices for Surveillance of Infectious Diseases,” *Framework Programs for Global Health and Signature Innovation Initiative Meeting*, NIH campus, 17 February 2011, Bethesda, MD
486. **A. Ozcan**, “Microscopy on a Cell-phone as a Diagnostic Tool,” *UC San Diego, TATRC/Qualcomm Wireless Health Innovation Challenge*, 1 February 2011, San Diego, CA
487. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” Bogazici University, Biomedical Engineering Institute, 29 December 2010, Istanbul Turkey
488. **A. Ozcan**, “Lab-on-a-Cellphone as an Emerging Telemedicine Platform,” *University of California, Global Health Day, UCI Campus* 30 November 2010, Irvine CA
489. **A. Ozcan**, “Lensfree Imaging for Microscopy and Diagnostics,” *First Look LA Meeting, USC Campus* 16 November 2010, Los Angeles CA
490. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *UC Irvine Biomedical Engineering Department Seminar Series*, 12 November 2010, Irvine CA
491. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *mHealth Summit*, 9 November 2010, Washington DC
492. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Los Angeles IDEA Project*, 7 November 2010, Los Angeles
493. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *LAUNCH: Health Forum, NASA Kennedy Space Center*, 31 October 2010, Orlando
494. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Future Trends Conference*, 18 October 2010, Miami, Florida

495. **A. Ozcan**, “Lensfree On-Chip Imaging for Telemedicine and Battlefield Diagnostics” Office of Naval Research, 14 October 2010, Washington DC
496. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Body Computing Conference, University of Southern California*, 23 September 2010, Los Angeles, CA
497. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Google*, 10 September 2010, Mountain View, CA
498. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Cisco*, 2 August 2010, Milpitas, CA
499. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems,” *Google-Nature-O’Reilly Science Foo Camp’10, Google Headquarters*, 1 August 2010, Mountain View, CA
500. **A. Ozcan**, “Telemedicine Microscopy toward Smart Global Health Systems” National Geographic Explorers Symposium, 9 June 2010, Washington DC
501. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems” Frontiers in Photonics Seminar Series, University of California, Irvine, 14 May 2010, Irvine CA
502. **A. Ozcan**, “Lensfree On-Chip Imaging for Telemedicine and Battlefield Diagnostics” Office of Naval Research, Biosciences and Biocentric Technology Annual Program Review, 7 May 2010, Arlington, VA
503. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems” Photonics Seminar Series, University of Southern California (USC), 28 April 2010, Los Angeles CA
504. **A. Ozcan**, “Incoherent Lensfree Cell Holography for Global Health Applications” 7th International Conference on Optics-Photonics Design and Fabrication, (April 19-21 2010) Yokohoma, Japan
505. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems” Optical Society of Southern California Monthly Meeting, 13 April 2010, Los Angeles CA
506. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems” Stanford University Electrical Engineering Department, 12 April 2010, Stanford CA
507. **A. Ozcan**, “Lensless digital holography for telemedicine” SPIE Defense, Security, and Sensing Conference, Photonic Microdevices/Microstructures for Sensing, (April 5-9 2010) Orlando, USA
508. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems” UC Berkeley EECS Department, 12 March 2010, Berkeley CA
509. **A. Ozcan**, “Incoherent Lensfree Imaging” AFOSR Electromagnetics Contractor’s Meeting, 6 January 2010, San Antonio TX
510. **A. Ozcan**, “Photonics based Telemedicine Technologies toward Smart Global Health Systems” Stanford University Electrical Engineering Department, 11 December 2009, Stanford CA
511. **A. Ozcan**, Panelist at Vodafone Americas Foundation's Wireless Innovations Project Workshop, University of California, San Francisco, 10 December 2009, San Francisco CA
512. **A. Ozcan**, “Imaging of Cell Shadows for Global Health and Telemedicine Applications,” *The Council of Scientific Society Presidents, Annual Meeting*, 6 December 2009, Washington, DC
513. **A. Ozcan**, “Imaging of Cell Shadows for Global Health and Telemedicine Applications,” *PopTech 2009 Conference*, 23 October 2009, Camden, ME
514. **A. Ozcan**, “Lensfree On-Chip Imaging for Telemedicine Applications” 2009 CMOS Emerging Technologies Workshop, Vancouver, Canada
515. **A. Ozcan**, “A new tool for TeleMedicine: High-throughput On Chip Cytometry and Diagnostics,” *MIT Media Labs*, 22 September 2009, Cambridge, MA

516. **A. Ozcan**, "A new tool for TeleMedicine: High-throughput On Chip Cytometry and Diagnostics," *Vodafone Ventures Conference*, 10 September 2009, London, UK
517. **A. Ozcan**, "Lensfree On-Chip Imaging for Telemedicine Applications" IEEE Photonics Society, 2009 Optical MEMS and NanoPhotonics Conference, (August 17-20, 2009) Florida
518. **A. Ozcan**, "Lensfree On-Chip Imaging for Telemedicine Applications" Engineering Conferences International, Advances in Optics for Biotechnology, Medicine and Surgery XI, Clinical Challenges and Research Solutions, Burlington, Vermont, 2009
519. **A. Ozcan**, "A new tool for TeleMedicine: High-throughput On Chip Cytometry and Diagnostics," *Lockheed Martin Fellows Conference*, 6 April 2009, Carlsbad, CA
520. **A. Ozcan**, "A new tool for TeleMedicine: High-throughput On Chip Cytometry and Diagnostics," *UCLA Center for Embedded Networked Sensors*, 20 February 2009, Los Angeles, CA
521. **A. Ozcan**, "A new tool for TeleMedicine: High-throughput On Chip Cytometry and Diagnostics," *Abbott Hematology Laboratories*, 6 February 2009, Santa Clara, CA
522. **A. Ozcan**, "A new tool for TeleMedicine: High-throughput On Chip Cytometry and Diagnostics," *Google*, 27 January 2009, Mountain View, CA
523. **A. Ozcan**, "A new tool for TeleMedicine: High-throughput On Chip Cytometry and Diagnostics," *UCLA Global Health Workshop, Enhancing the Health of Women and Children Globally*, 23 October 2008, Los Angeles, CA
524. **A. Ozcan**, "A new tool for Wireless Health: High-throughput On Chip Cytometry and Diagnostics," *UCLA Bio-Engineering Department Seminar Series*, 16 October 2008, Los Angeles, CA
525. **A. Ozcan**, "High-throughput On Chip Cytometry and Diagnostics," *Lehigh University, Center for Optical Technologies Annual Open House*, 13-14 October 2008, Bethlehem, PA.
526. **A. Ozcan**, "High-throughput On Chip Cytometry and Diagnostics," *University of Tokyo, CNSI-CNBI Symposium on NanoBioTechnology*, 8-9 September 2008, Tokyo, Japan
527. **A. Ozcan**, "High-throughput On Chip Cytometry and Diagnostics," *Kyoto University, Joint Nano-Bio Workshop*, 10 September 2008, Tokyo, Japan
528. **A. Ozcan**, "High-throughput On Chip Cytometry and Diagnostics," *Kyushu University, Global COE Joint Symposium*, 11 September 2008, Fukuoka, Japan
529. **A. Ozcan**, "High-throughput Imaging and Characterization of a Heterogeneous Cell Solution On Chip," *California Institute of Technology, Electrical Engineering Department*, 16 May 2008, Pasadena, CA
530. **A. Ozcan**, "Differential near-field scanning optical microscopy based on sensor arrays," *SPIE Photonics West*, 19-24 January 2008, San Jose, CA, paper # 6865-7
531. **A. Ozcan**, "Ultra wide-field Lensless Monitoring of Cells on Chip," *Iris International Inc.*, 20 November 2007, Los Angeles, CA
532. **A. Ozcan**, "New Concepts in Nano- and Bio-Imaging," *University of California, Los Angeles, Electrical Engineering Department*, 23 April 2007, Los Angeles CA
533. **A. Ozcan**, "New Concepts in Nano- and Bio-Imaging" *Northeastern University, Physics Department*, 12 April 2007, Boston MA
534. **A. Ozcan**, "New Concepts in Nano- and Bio-Imaging" *Georgia Institute of Technology, The School of Electrical and Computer Engineering*, 05 March 2007, Atlanta GA
535. **A. Ozcan**, "Differential Near-Field Scanning Optical Microscopy" *Harvard Medical School, Annual Wellman Retreat*, 02 November 2006, Boston MA
536. **A. Ozcan**, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" *Berkeley Optoelectronics Seminar Series (BOSS), University of California, Berkeley*, 18 November 2005, Berkeley, CA

537. **A. Ozcan**, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" Lawrence Berkeley National Laboratory, *University of California, Berkeley*, 29 September 2005, Berkeley, CA
 538. **A. Ozcan**, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" The Research Laboratory of Electronics, *Massachusetts Institute of Technology*, 23 September 2005, Boston, MA
 539. **A. Ozcan**, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" Massachusetts General Hospital, *Harvard Medical School*, 20 September 2005, Boston, MA
 540. **A. Ozcan**, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" BioEngineering Department, *California Institute of Technology*, 12 September 2005, Pasadena, CA
 541. **A. Ozcan**, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" BioEngineering Department, *University of California, Berkeley*, 6 September 2005, Berkeley, CA
 542. **A. Ozcan**, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" The Research Laboratory of Electronics, *Massachusetts Institute of Technology*, 25 August 2005, Boston, MA
 543. **A. Ozcan**, "Second-order nonlinearities in silica" Faculty of Engineering and Natural Sciences, *Sabanci University*, 3 January, 2005, Istanbul, Turkey
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OTHER TECHNICAL PRESENTATIONS

1. **A. Ozcan**, "Virtual Staining of Label-free Tissue Using Deep Learning," UCLA Bioengineering Research Day, February 16, 2024, Los Angeles, CA, USA (*Plenary Talk*)
2. **A. Ozcan**, "Deep-Learning-Enabled Computational Microscopy & Diffractive Imaging," UCLA Biomedical Electronics Symposium, April 29, 2023, Los Angeles, CA
3. **A. Ozcan**, "Deep Learning-enabled Microscopy and Sensing," UCLA Bioengineering Research Day, February 11, 2022, Los Angeles, CA, USA (*Keynote Talk*)
4. **A. Ozcan**, "Mobile Microscopy, Telemedicine and Deep Learning," Science Embassadors Conference, Sabanci University, May 4, 2019, Istanbul, Turkey
5. **A. Ozcan**, "Deep Learning Optics," The Annual Symposium of the Peking University-UCLA Joint Research Institute in Science and Engineering (JRI), October 15, 2018, Los Angeles, CA, USA
6. **A. Ozcan**, "Mobile Microscopy, Sensing and Diagnostics for Point-of-Care Medicine and Global Health," Biotech Connection Los Angeles (BCLA), Biotech Networking Mixer, December 5, 2017, Los Angeles, CA, USA
7. **A. Ozcan**, "Sensing and Diagnostics Technologies for Mobile Health and Telemedicine," UCLA Chancellor's Society, Parents and Alumni Event, 5 December 2017, Newport Beach, CA
8. **A. Ozcan**, "Engineering and Medicine Panel: The Future of our Health," Bruin Engineers' Reunion, UCLA, 10 June 2017, Los Angeles CA
9. **A. Ozcan**, "Undergraduate Research and Training on Mobile Health and Telemedicine Technologies," Korean American Scientists and Engineers Association - Southern California Major Fair, UCLA, 15 October 2016, Los Angeles CA (*Keynote Talk*)
10. **A. Ozcan**, "Undergraduate Research and Training on Mobile Health and Telemedicine Technologies," UCLA Undergraduate Open House, 8 October 2016, Los Angeles CA
11. **A. Ozcan**, "Mobile Microscopy, Sensing and Diagnostics Technologies," UCLA Microbiome Center Lecture Series, Los Angeles, CA (April 15, 2016)
12. **A. Ozcan**, "Sensing and Diagnostics Technologies for Mobile Health and Telemedicine," UCLA Chancellor's Society, Parents and Alumni Event, San Francisco, CA (February 28, 2016)

13. **A. Ozcan**, "Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools Through Computational Photonics", Karabuk University, Turkey, May 6, 2015 (Webinar)
14. **A. Ozcan**, "Computation Microscopy, Sensing and Diagnostics," High School Summer Research Program, University of California, Los Angeles, CA (August 5, 2014)
15. **A. Ozcan**, "Frontier Medicine", The Next Billion – A Forum Presented by Quartz, Seattle Art Museum, Seattle, WA (June 2, 2014)
16. **A. Ozcan**, "Computation Microscopy, Sensing and Diagnostics," Engineering Tech Forum, University of California, Los Angeles, CA (February 6, 2014)
17. **A. Ozcan**, "Next-Generation Imaging and Diagnostics through Mobile Phones," HIV Interest Meeting, University of California, Los Angeles, CA (February 1, 2014)
18. **A. Ozcan**, "Crowd-sourced Games for Telepathology," Citizen Science and Libraries Program, Natural History Museum of Los Angeles, CA (December 13, 2013)
19. **A. Ozcan**, "Computational Imaging, Sensing and Diagnostics," *California NanoSystems Institute (CNSI)*, University of California, Los Angeles, December 4, 2013, Los Angeles, CA
20. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," *David Geffen School of Medicine*, University of California Los Angeles, November 14, 2013, Los Angeles, CA
21. **A. Ozcan**, "Innovations in Photonics," *UCLA Foundation Governors' Salon*, University of California Los Angeles, September 10, 2013, Los Angeles, CA
22. **A. Ozcan**, "Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications," *School of Engineering Tech Forum*, University of California Los Angeles, May 8, 2013, Los Angeles, CA
23. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," *School of Public Health, Center for Global and Immigrant Health*, University of California Los Angeles, February 15, 2012, Los Angeles, CA
24. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," *CNSI- CEA/LETI/CLINATEC Joint Symposium*, University of California Los Angeles, February 3, 2012, Los Angeles, CA
25. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," *CNSI- Swedish Medical NanoScience Center Joint Symposium*, University of California Los Angeles, January 30, 2012, Los Angeles, CA
26. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," *Department of Materials Science and Engineering*, University of California Los Angeles, December 2, 2011, Los Angeles, CA
27. **A. Ozcan**, "Cellphone Microscopy toward Smart Telemedicine Systems," *UCLA Parents' Weekend*, October 28, 2011, Los Angeles, CA
28. **A. Ozcan**, "Telemedicine Microscopy toward Smart Global Health Systems," *Science, Engineering, & Technology for Story Tellers*, Universal Studios, Burbank, July 14, 2011, Los Angeles, CA
29. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," *Medical Innovation Interest Group, UCLA Medical School*, May 25, 2011, Los Angeles, CA
30. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems," *UCLA Alumni Meeting*, May 17, 2011, Santa Ana, CA
31. **A. Ozcan**, "Telemedicine Microscopy toward Smart Global Health Systems," *UCLA Electrical Engineering Open House*, 10 April 2011, Los Angeles CA
32. **A. Ozcan**, "Telemedicine Microscopy toward Smart Global Health Systems," *UCLA School of Engineering Advisory Board Meeting*, 7 April 2011, Los Angeles CA
33. **A. Ozcan**, "Use of Sub-wavelength Metallic Apertures to Enable Higher Resolution Sensor-Arrays," AFOSR Electromagnetics Contractor's Meeting, 5 January 2011, San Antonio TX

34. **A. Ozcan**, "Lab-on-a-Cellphone as an Emerging Telemedicine Platform," *Institute of Technology Advancement, UCLA School of Engineering* 2 December 2010, Los Angeles CA
35. **A. Ozcan**, "Photonics based Telemedicine Technologies toward Smart Global Health Systems" *University of California, Los Angeles Early Bird Engineers Summer School, School of Engineering*, 5 August 2010, Los Angeles CA
36. **A. Ozcan**, "Telemedicine Microscopy toward Smart Global Health Systems" *University of California, Los Angeles CNSI SCI|ART NanoLab Summer School*, 30 June 2010, Los Angeles CA
37. **A. Ozcan**, "High-throughput on-chip cytometry," *CNSI and KINC/KAIST Joint Symposium*, 19 August 2008, Los Angeles CA
38. **A. Ozcan**, "High-throughput lensfree cell characterization on a chip," *University of California, Los Angeles CNSI Member Luncheon*, 9 July 2008, Los Angeles CA
39. **A. Ozcan**, "High-throughput cell characterization on a chip," *University of California, Riverside, Center for NanoScience Innovation for Defense Annual Review*, 17 June, 2008, Riverside CA
40. **A. Ozcan**, "Ultra wide-field Lensless Monitoring of Cells on Chip," *University of California, Los Angeles, Electrical Engineering Department - Annual Research Review*, 28 January, 2008, Los Angeles CA
41. **A. Ozcan**, "Differential Near-field Scanning Optical Microscopy," *University of California, Los Angeles, Center for NanoScience Innovation for Defense Annual Review*, 4 December, 2007, Los Angeles CA
42. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Feasibility study of air-core fiber tapers" *Northrop Grumman Corporation - Litton Review*, 7 October, 2005, Stanford University, Stanford, CA
43. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Non-destructive characterization tools using spectral interferometry and minimum-phase functions" *Northrop Grumman Corporation - Litton Review*, 7 October, 2005, Stanford University, CA
44. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Electro-optic poled silica devices" *Northrop Grumman Corporation - Litton Review*, 25 February, 2005, Stanford University, Stanford, CA
45. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Spectral characterization using minimum phase functions" *Northrop Grumman Corporation - Litton Review*, 25 February, 2005, Stanford University, Stanford, CA
46. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Application of the Fienup algorithm to characterize fiber Bragg gratings" *Northrop Grumman Corporation - Litton Review*, 16 July, 2004, Stanford University, Stanford, CA
47. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Iterative processing technique to retrieve second-order optical nonlinearity profiles" *Northrop Grumman Corporation - Litton Review*, 16 July, 2004, Stanford University, Stanford, CA
48. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Dependence of the induced nonlinearity profile on poling conditions" *Northrop Grumman Corporation - Litton Review*, 16 July, 2004, Stanford University, Stanford, CA
49. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Electro-optic poled silica devices" *Northrop Grumman Corporation - Litton Review*, 16 July, 2004, Stanford University, Stanford, CA
50. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Second-order nonlinear material characterization" *Northrop Grumman Corporation - Litton Review*, 21 November, 2003, Stanford University, Stanford, CA
51. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Advances in thermal poling of glasses" *Northrop Grumman Corporation - Litton Review*, 21 November, 2003, Stanford University, Stanford, CA
52. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Second-order nonlinear material characterization" *Northrop Grumman Corporation - Litton Review*, 16 May, 2003, Stanford University, Stanford, CA

53. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Second-order nonlinear material characterization" *Stanford Photonics Research Center (SPRC) Mixer*, 28 February, 2003, Stanford University, Stanford, CA (poster presentation)
54. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Progress on Si₃N₄ and TiO₂ thermal poling" *Northrop Grumman Corporation - Litton Review*, 26 September, 2002, Stanford University, Stanford, CA
55. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "A solution to optical phase problems" *Northrop Grumman Corporation - Litton Review*, 26 September, 2002, Stanford University, Stanford, CA
56. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Measurement of optical $\chi^{(3)}$ of TiO₂ films" *Northrop Grumman Corporation - Litton Review*, 26 September, 2002, Stanford University, Stanford, CA
57. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Nonlinearity profile in glasses" *Northrop Grumman Corporation - Litton Review*, 1 February, 2002, Stanford University, Stanford, CA
58. **A. Ozcan**, U. L. Block, M. J. F. Digonnet, and G. S. Kino, "Reducing the polarization dependence of mechanically induced LPBGs " *Northrop Grumman Corporation - Litton Review*, 19 June, 2001, Stanford University, Stanford, CA
59. **A. Ozcan**, M. J. F. Digonnet, and G. S. Kino, "Nonlinearity profile in glasses" *Northrop Grumman Corporation - Litton Review*, 19 June, 2001, Stanford University, Stanford, CA
60. **A. Ozcan**, U. L. Block, M. J. F. Digonnet, and G. S. Kino, "Mechanically-induced long-period fiber gratings: A simple, polarization-independent device" *Northrop Grumman Corporation - Litton Review*, 10 November, 2000, Stanford University, Stanford, CA

IN THE NEWS – PRESS COVERAGE

1. Phys.Org, "[Researchers unveil unidirectional light focusing using diffractive optics](#)," 3/2025
2. University of California - News, "[National Academy of Engineering elects 10 University of California researchers](#)," 2/2025
3. UCLA Global – Impact Story, "[Mobile Microscopy, Sensing, and Diagnostics for the World](#)," 2/2025
4. UCLA Newsroom, "[2 UCLA professors elected to the National Academy of Engineering](#)," 2/2025
5. EurekAlert, "[Terasaki Institute for Biomedical Innovation announces recipients of inaugural Keith Terasaki Mid-Career Innovation Award](#)," 2/2025
6. Medical Xpress, "[AI-powered sensor for high-sensitivity cardiac diagnostics could democratize access](#)," 2/2025
7. Faculti, "[Virtual Staining of Tissue using AI](#)," 1/2025
8. Phys.Org, "[AI-powered staining in microbiology: Researchers introduce virtual Gram staining of label-free bacteria](#)," 1/2025
9. National Science Foundation (NSF) News, "[Paper-based sensors may lead to rapid detection of heart attacks](#)," 1/2025
10. Science News Explores, "[A new frontier awaits — computing with light](#)," 12/2024
11. Nature Photonics, "[Optical computing and artificial intelligence](#)," 12/2024
12. UCLA Newsroom, "[9 UCLA Engineers Named to 2024 List of World's Most Influential Researchers](#)," 11/2024
13. Wiley Industry News, "[Unidirectional imaging improves visual information processing](#)," 11/2024
14. BioPhotonics Magazine, "[AI Accelerates Skin Lesion Identification](#)," 11/2024
15. Atlas of Science, "[UCLA researchers pioneer AI-based tissue staining to detect amyloid deposits without chemical stains or polarization microscopy](#)," 11/2024

16. Photonics Spectra, "[Unidirectional Imaging Enables Asymmetric Visual Info Processing](#)," 11/2024
17. Optics.Org, "[UCLA's partially coherent imaging system enhances visual data transmission](#)," 10/2024
18. SPIE News, "[Unidirectional imaging technology breakthrough](#)," 10/2024
19. Phys.Org, "[New partially coherent unidirectional imaging system enhances visual data transmission](#)," 10/2024
20. Chemical and Engineering News (C&EN), "[Can researchers use AI to take microscopy to the next level?](#)," 10/2024
21. Atlas of Science, "[UCLA researchers develop high-sensitivity paper-based sensor for rapid cardiac diagnostics](#)," 10/2024
22. Wiley Analytical Science, "[AI tissue staining from Ozcan group uncovers amyloid deposits](#)," 10/2024
23. Phys.Org, "[Paper-based sensor offers rapid cardiac diagnostics in 15 minutes](#)," 10/2024
24. Medical Xpress, "[AI-based tissue staining can detect amyloid deposits without chemical stains or polarization microscopy](#)," 9/2024
25. Phys.Org, "[Diagnostic test that combines two technologies with machine learning could lead to new paradigm for at-home testing](#)," 9/2024
26. Wiley Industry News, "[New method for 3D quantitative phase imaging](#)," 9/2024
27. SPIE News, "[AI and photonics: United by necessity](#)," 9/2024
28. EurekAlert, "[Automated HER2 scoring in breast cancer images using deep learning and pyramid sampling](#)," 8/2024
29. New Scientist, "[Lyme disease test gives hope for a speedier diagnosis](#)," 8/2024
30. UCLA Newsroom, "[Lyme disease early detection could get boost from simpler, faster testing technology](#)," 8/2024
31. Fire Rescue, "[Firefighting evolution: How wearables can enhance safety and efficiency](#)," 8/2024
32. Medical Xpress, "[New system offers more reliable, cost-effective solution for continuous glucose monitoring](#)," 8/2024
33. Phys.Org, "[Pyramid optical networks for unidirectional image magnification and demagnification](#)," 8/2024
34. Phys.Org, "[New method for 3D quantitative phase imaging eliminates need for digital phase recovery algorithms](#)," 7/2024
35. SPIE News, "[Innovative method for 3D quantitative phase imaging](#)," 7/2024
36. Phys.Org, "[New work sheds light on nonlinear encoding in diffractive optical processors based on linear materials](#)," 7/2024
37. Medical Xpress, "[Deep learning approach enhances HER2 scoring in breast cancer](#)," 7/2024
38. Optics.Org, "[UCLA develops optical computing for multiplexed data processing and encryption](#)," 7/2024
39. Physics World, IOP (Institute of Physics), "[New diffractive camera hides images from view](#)," 7/2024
40. Photonics Spectra, "[Deep Learning-Trained Imager Magnifies Subwavelength Objects](#)," 6/2024
41. Medical Xpress, "[Researchers develop portable serological test for rapid COVID-19 immunity monitoring](#)," 6/2024
42. Photonics Spectra, "[Imager Captures Amplitude, Phase Info Without Digital Processing](#)," 6/2024
43. UCLA Newsroom, "[Gamers' New Target: Breast Cancer](#)," 6/2024
44. Phys.Org, "[Scientists unveil all-optical phase conjugation method using diffractive wavefront processing](#)," 6/2024

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46. Tech Xplore, "[Information-hiding camera: Optical technology conceals data in plain sight](#)," 6/2024
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51. Nature, "[AI's keen diagnostic eye](#)," 4/2024
52. UCLA Newsroom, "[Advance in light-based computing shows capabilities for future smart cameras](#)," 4/2024
53. SPIE News, "[Advanced Photonics Editors-in-Chief select the best papers from 2023](#)," 4/2024
54. Phys.Org, "[2D optoelectronic neuron array achieves broadband and low-loss optical nonlinearity accessible with ambient light](#)," 3/2024
55. Medical Xpress, "[Virtual staining of unlabeled autopsy tissue using AI](#)," 2/2024
56. IEEE Photonics Society - Illuminated Podcast Series, "[Pioneering Biomedical Imaging with Computational Tools](#)," 2/2024
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59. SPIE Newsroom, "[Optical computing boost with diffractive network advance](#)," 1/2024
60. Phys.Org, "[Performing complex-valued linear transformations using spatially incoherent diffractive optical networks](#)," 1/2024
61. EurekAlert, "[New method for addressing the reliability challenges of neural networks in inverse imaging problems](#)," 1/2024
62. Laser Focus World, "[Terahertz focal-plane array enables real-time, super-resolution imaging](#)," 1/2024
63. Venture, "[Most Influential Biotech Startups Shaping the Future in Los Angeles](#)," 11/2023
64. Advanced Science News (Wiley), "[How label-free, super-resolution imaging will push microscopy's limits](#)," 11/2023
65. UCLA Newsroom, "[Over three dozen UCLA faculty listed among world's most influential researchers](#)," 11/2023
66. Phys.Org, "[Team develops new method for communicating around arbitrary opaque walls](#)," 11/2023
67. SPIE News, "[Doctor in your pocket: Here come smartphone diagnostics](#)," 11/2023
68. Phys.Org, "[Detecting hidden defects in materials using a single-pixel terahertz sensor](#)," 11/2023
69. Phys.Org, "[High-throughput terahertz imaging: Progress and challenges](#)," 10/2023
70. EurekAlert, "[Diffractive networks enable quantitative phase imaging \(QPI\) through random diffusers](#)," 9/2023
71. IEEE Photonics Society, "[Making Holographic Imaging Faster, Higher Resolution and More Efficient](#)," 9/2023
72. Tech Xplore, "[Diffractive optical network enables multispectral quantitative phase imaging in a snapshot](#)," 9/2023
73. Optics.Org, "[UCLA improves 'hi-fi' data transmission with novel electro-optical method](#)," 8/2023
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80. Optica, Optics & Photonics News (OPN), "[AI Model Swaps Datasets for Physics,](#)" 8/2023
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