



Posters

Photonics Online Meetup

#POM20Ju

22 June 2020

<http://photonicsonlinemeetup.org/>

@PhotonicsMeetup

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Posters at the Photonics Online Meetup on June 22 2020

Note that we mention only the first author of the poster and the affiliation. For the full author list, please check the poster online.

Biophotonics

1. All-in-one magnetoplasmonic nanoparticles for combined medical imaging and treatment of cancer cells
Pablo Martinez Pancorbo, University of Exeter
2. MesoTIRF: Developing a Total Internal Reflection Fluorescence illuminator for imaging cell membranes in over 1000 cells simultaneously
Shannan Foylan, University of Strathclyde

The following poster is presented in a virtual-reality (VR) poster session using Mozilla Hubs:

3. Pre-Resonance Hyperspectral Stimulated Raman Scattering microscopy for monitoring Amphotericin b distribution
Kostas Mavrakis, Department of Materials Science and Technology
4. Structural colour as the key to bacterial self-organisation – a route towards biosensing?
Lukas Schertel, University of Cambridge
5. A Sub-Nanotesla Fibre-coupled Diamond Magnetometer
Rajesh L. Patel, University of Warwick
6. Real time observation of in vivo hyperthermophilic micro-organisms through laser heating
Molinaro Céline, Institut Fresnel /CNRS
7. Readout of fluorescence functional signals through highly scattering tissue
Claudio Moretti, LKB/CNRS

8. 3D Mesoscopic Imaging of Optically Cleared Whole Mouse Pancreas
Katrina Wesenraft, University of Strathclyde
9. Highly multiplexed label-free imaging sensor for accurate quantification of small molecule binding kinetics
Elisa Chiodi, Boston University
10. LUCA Device: a Multi-Wavelength Time-Resolved Spectroscopy and Diffuse Correlation Spectroscopy Device with an Integrated Clinical Ultrasound Module for Thyroid Cancer Screening
Lorenzo Cortese, ICFO - Institut de Ciències Fotòniques
11. Long term monitoring the effects of antibiotics on bacteria using acoustics-Raman microfluidics
Mingzhou Chen, University of St Andrews
12. Raman-based detection of ciprofloxacin in pharmaceutical formulations
Chen Liu, Leibniz Institute of Photonic Technology Jena
13. Waveguide-Based Platform for Large Field-of-View Super-Resolution Imaging
Evgenii Glushkov, École Polytechnique Fédérale de Lausanne
14. Integrated optofluidic devices for light-sheet fluorescence imaging of samples with diverse shapes and dimensions
Federico Sala, Politecnico di Milano
15. High-speed bio-sample analysis with quantum cascade laser frequency comb spectroscopy
Markus Mangold, IRsweep AG
16. Label-free optical hemogram of granulocytes enhanced by artificial neural networks
Roopam Gupta, University of St. Andrews
17. Imaging 3D orientation and wobbling of single fluorescent emitters by polarized super-resolved microscopy
Valentina Curcio, Institut Fresnel
18. Solution-phase Engineering of Ultra-small Sub-10 nm Lithium Niobate Nanocrystals with Tunable Second Harmonic Generation Response and their Future in Biophotonics
Rana Faryad Ali, Simon Fraser University
19. Virtual immunofluorescence staining from reflectance microscopy by deep learning
Shiyi Cheng, Boston University
20. Laser-activated nanostructures for drug-delivery
Weilu Shen, Harvard University
21. Optimization of a portable optical malaria diagnostic system for low-resource settings
Alexis Scholtz, University of Southern California
22. Using computer-assisted design for the development of custom two-photon light-sheet microscope
Andrey Andreev, California Institute of Technology
23. Photonic Dissolved-Oxygen Sensing of Chlorella Photosynthesis
Parto Ijadi Maghsoodi, Kharazmi University
24. Nanophotonic Temperature Sensing in an Algae Culture Medium Using Lanthanide UCNPs
Mahsa Habibi, Kharazmi University
25. Mie scattering in the UV range occurring within bird eggshells
Mathieu Ladouce, University of Namur

26. Multiscale photonic architectures based on patterned nanocellulose self-assembled structures
Andrea Camposeo, Istituto Nanoscienze-CNR
27. Discovering principles of chromosome organization using single-molecule imaging
Eugene Kim, Delft University of Technology
28. Sensing Polymer/Paracetamol Interaction with an Independent Component Analysis-Based SERS-MIP Nanosensor
Nathalie Lidgi-Guigui, University Sorbonne Paris Nord
29. Asynchronous-readout SPAD array detector meets FCS
Eli Slenders, Istituto Italiano di Tecnologia
30. Coordinate and height super-resolution imaging with dithering and orientation (CHIDO) for single molecules
Luis Arturo Aleman-Castaneda, Aix Marseille Universite
31. Multiplexed immunoplasmonic labeling on stained cytology samples for improved cancer diagnosis
Paule Marcoux-Valiquette, Polytechnique Montréal
32. Intensity Diffraction Tomography with Physics-Embedded Deep Learning
Alex Matlock, Boston University
33. Fluorescence of scale-worms (Polychaeta, Polynoidae) under the different photonic conditions
Masha Plyushcheva, CRG
34. Dielectric metasurfaces for label-free bioimaging and chiral sensing
Yasaman Jahani, École Polytechnique Fédérale de Lausanne
35. Digital Fiber Refractometric Sensor Based on the Vernier Effect
Ubaid Ullah, Lahore University of Management Science
36. 3D Printed graphene biosensors for measuring electrochemical properties of neuronal cells
Amir Niaraki, Iowa State University
37. Synthesis and Characterization of Dye-Based Phantom Tissue Samples with Tailored Visible-NIR Optical Properties
Shinoj Vengalathunadakal Kuttinarayanan, Union Christian College India
38. Optical Trapping of Photonic Membrane structures
Andrea Di Falco, University of St. Andrews

The following poster is presented in a virtual-reality (VR) poster session using Mozilla Hubs:

39. [Nanoscale multi-colour fluorescence cross-correlation spectroscopy on living cell membranes with plasmonic antennas](#)
Maria Sanz-Paz, ICFO - Institut de Ciències Fotòniques

Light Matter Interactions

40. Inorganic Perovskite Photonic Crystals
Muhammad Danang Birowosuto, Nanyang University of Technology
41. Nanowire lasers modified by electron irradiation
Francesco Vitale, Friedrich Schiller Universität Jena
42. Absolute chiral sensing using nanophotonics
Lykourgos Bougas, Johannes Gutenberg-Universität Mainz
43. High efficiency cascaded Stokes and anti-Stokes laser based on an integrated optical resonator with a self-assembled monolayer
Andre Kovach, University of Southern California
44. A Nanoscale Plasmonic Reactor: Light Driven Synthesis of Individual Core@Shell Nanoparticles
Rifat Kamarudheen, Dutch Institute for Fundamental Energy Research
45. Discerning the Non-Thermal Mechanism Behind Plasmon-Driven Reactions Using an Au@Ag Core@Shell Nanoparticle Synthesis
Rifat Kamarudheen, Dutch Institute for Fundamental Energy Research
46. Self-induced thermo-optical effects in silicon and germanium dielectric nanoresonators
Theodoros (Ted) Tsoulos, École Polytechnique Fédérale de Lausanne
47. High-Throughput Nanofabrication of Metasurfaces with Polarization Dependent Response and application to Quantum Dot Solar Cells
Pau Molet, ICMAB
48. Ultra-broadband and Omni-directional Perfect Absorber based on Copper Nanowire/Carbon Nanotube Hierarchical Structure
Fatemeh Kiani, École Polytechnique Fédérale de Lausanne
49. Dynamics of an active nanoparticle in an optical trap
Falko Schmidt, University of Gothenburg
50. High-Q Resonances in Plasmonic Metasurfaces
M. Saad Bin-Alam, University of Ottawa
51. High performance Broadband photodetector based on Few-layer MoS₂ grown using Pulsed Laser Deposition Technique
Sujit Kumar, University of Delhi
52. All-optical and Ultrafast Control of Second Harmonic Generation in AlGaAs Nanodisks, Michele Celebrano, Politecnico di Milano, michele.celebrano@polimi.it
53. Towards integrated chiral spectroscopy
Alejandro Martinez, Universitat Politècnica de Valencia
54. Optical Fourier surfaces
Nolan Lassaline, ETH Zürich
55. High Q-Factor double resonant Bragg-Cavities: towards efficient Second Harmonic Generation in MoS₂ and WS₂
Heiko Knopf, Friedrich-Schiller-University Jena
56. Extremely imbalanced two-dimensional electron-hole-photon systems
Antonio Tiene, Universidad Autónoma de Madrid

57. Towards Placing a Nanodiamond Containing a Single Nitrogen-Vacancy Defect in a Mesoscopic Superposition
James March, University of Warwick
58. Nanostructure Monoclinic VO₂ Surface Coupling and Strain-Induced Optical Modulation on Van der Waals MoS₂-Si Heterostructure
Mohamed A. Basyooni, University of Konya Necmettin Erbakan
59. Integrated Plasmonic Terahertz Detector
Yannick Salamin, Massachusetts Institute of Technology
60. Phase-change metasurfaces based on sub-diffraction limited switching
Ann-Katrin Michel, ETH Zurich
61. Third order nonlinearities on nanofabricated silicon metasurfaces
Luca Fagiani, Politecnico di Milano
62. Watching Paint Dry - Models for the Prediction and Tracking of Colour in Pigmented Films
Damien Leech, University of the West of England
63. Liquid switchable radial polarization converters made of sculptured thin films
Francisco Yubero, ICMS
64. Light matter interaction at single particle level: A real time observation of magnetic field induced fluorescence engineering in SPIONs
Ashish Tiwari, Indian Institute of Technology Mandi, India
65. Measurement of plasmonic hyperpolarizability: Nonlinear optical characteristics of plasmonic meta-atoms
M. Saad Bin-Alam, University of Ottawa
66. Light in Dynamical Matter
Emanuele Galiffi, Imperial College London
67. Plasmonic Metasurfaces with Ultra-High-Q Lattice Resonances
M Saad Bin-Alam, University of Ottawa
68. Improving the Optical Excitation and Collection Efficiency from Levitated Nanodiamonds in a Mesoscopic Superposition Experiment
Ben Wood, University of Warwick
69. Disordered assemblies of LiNbO₃ nanoparticles for second harmonic generation in multiple scattering regime
Andrea Morandi, ETH Zürich
70. Electrodeposited Negative Index Metamaterials with Visible and Near Infrared Response
Mayte Gomez-Castano, Institute of Materials Science of Barcelona
71. Full electrical control of nonlinear photoluminescence emitted from gold plasmonic nanowires
Adrian Agreda, Laboratoire Interdisciplinaire Carnot de Bourgogne
72. Large Area All-dielectric Metasurfaces Made with Spherical Silicon Resonators
Pau Molet, ICMAB
73. Ultrafast control of thermal radiation via emissivity modulation
Yuzhe Xiao, University of Wisconsin-Madison
74. Low-loss Zero-Index Materials
Haoning Tang, Harvard University
75. Optical force field reconstruction using Brownian trajectories
Laura Pérez-García, Göteborgs Universitet

76. Tunable optical activity in ultrathin and highly flexible THz metasurfaces
Zizwe Chase, Howard University
77. Impact of statistics of entangled photon sources on quantum key distribution: parametric generators and quantum dots
Radim Hosak, Palacký University Olomouc
78. Towards Laser-Written Optoelectronic Devices
Yashna Lekhai, University of Warwick
79. Engineered stress distributions in diamond by ultrashort pulse laser fabrication
Patrick Salter, University of Oxford
80. Light induced adaptation of structural colour and light absorption enhancement in photosynthetic photonic organelles
Miguel Castillo, International Iberian Nanotechnology Laboratory
81. Periodic surface structures on silicon formed by self-organization of nanoparticles upon deep UV laser exposure
Rocio Ariza, Instituto de Óptica
82. Shining light on 2D MoO₃ crystals for photonic applications
Eva Nieto-Pinero, Instituto de Óptica
83. Controlling the dynamics of colloidal particles by critical Casimir forces
Alessandro Magazzu, University of Gothenburg
84. Mid infrared supercontinuum generation spanning 1.1 – 6.7 μm using GeSe₂-As₂Se₃-PbSe & MgF₂ Rib Waveguide: Numerical Design & Analysis
Rohan Sharma, Delhi Technological University
85. All-dielectric silicon slot-nanocavities for Er³⁺ photoluminescence enhancement
Boris Kalinic, University of Padova
86. Large area photon harvesting in flat-optics MoS₂ nanogratings
Maria Caterina Giordano, University of Genova
87. Arbitrary sequenced spin control of a Quantum Dot strongly coupled to a photonic crystal cavity
Demitry Farfurnik, University of Maryland
88. Broadband control of the optical properties of semiconductors through site-controlled self-assembly of microcrystals
Jacopo Pedrini, Università degli Studi di Milano-Bicocca
89. Femtosecond laser-induced formation of self-organized dual nanostructures in germanium: Mechanisms and control
Noemi Casquero, Instituto de Óptica Madrid
90. Electro-optic tuning of nanostructured metasurfaces from lithium niobate
Helena Weigand, ETH Zürich
91. Design of planar metamaterial cavity for visible spectrum
Tushar Gupta, Delhi Technological University
92. Optically reconfigurable polarized emission in Germanium
Elisa Vitiello, Università degli studi di Milano-Bicocca
93. Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles
Marzia Ferrera, Università di Genova
94. Thermal emitters with mesoscopic structures
Zhou Ming, University of Wisconsin - Madison

95. Nanostructured Electro-optic Barium Titanate Nanoparticle Films
Artemios Karvounis, ETH Zürich
96. Photocatalytic few atoms Ag nanoclusters produced by ultrashort light pulses
David Muñetón Arboleda, Centro de Investigaciones Ópticas
97. Hot electron emission from waveguide integrated graphene and experimental roadmap towards high efficiency photoemitters
Ragib Ahsan, University of Southern California
98. Monolithic III-V Semiconductors as Building Block for Integrated Photonics
Jun Tao, University of Southern California
99. Design of Planar Metamaterial Cavity
Tushar Gupta, Delhi Technological University
100. 2D/3D Heterostructure Based on MoS₂/GaN for Photodetection Application
Shubhendra Jain, RMIT University
101. Nanocellulose-based metamaterials for simultaneous daylight radiative cooling and optical diffusion
Sampath Gamage, Linköping University
102. A new class of flexible lasing materials by nanowire-doping in polymer nanofibers
Alberto Portone, Istituto Nanoscienze-CNR
103. Light amplification and white lasing in multiphase soft materials
Andrea Camposeo, Istituto Nanoscienze-CNR
104. Maximizing wave absorption in hyperuniform disordered structures
Romain Pierrat, Université PSL Paris
105. Topological phases induced by photon-photon interactions in quantum waveguides
Janet Zhong, The Australian National University
106. Telecom-heralded entanglement swapping between quantum memory-compatible photon pairs
Dario Lago-Rivera, ICFO - Institut de Ciències Fotòniques
107. Dynamics of an active nanoparticle in an optical trap
Falko Schmidt, University of Gothenburg
108. Dynamic Modulation of a Mechano-responsive Chiral Photonic Nanocellulose Composites
Dan Qu, Technion-Israel Institute of Technology
109. Non-thermal carriers and heating effects in metal and semiconductor nanostructures
Ieng-Wai Un, Ben-Gurion University of the Negev
110. Harnessing atomic forces for the optical levitation of rare-earth ion activated nanocrystals
Cyril Laplane, Macquarie University
111. Enhancing circular dichroism with superchiral surface waves
Erika Moggi, Politecnico di Milano
112. Magneto-optical extinction of light in a thin and thick film of ferrofluid
Vishakha Dave, M.K. Bhavnagar University
113. Generation of polarization-entangled photons with high orbital angular momentum in helical grating fibers
Wagner Elisabeth, Macquarie University
114. Facet-dependent formation of quantum-confined In(Ga)As clusters in GaAs nanowires
Akshay Balgarkashi, École Polytechnique Fédérale de Lausanne

115. Ultrafast reflectance switching based on artificial epsilon-near-zero modes in a metal-insulator-metal nanocavity
Joel Kuttruff, University of Konstanz
 116. GLAD deposited WO₃ thin film for UV-Photodetection
Shiva Lamichhane, University of Delhi
 117. Au slit arrays for plasmon-enhanced vibrational circular dichroism
Francesco Rusconi, Politecnico di Milano
 118. Active Layered Hyperbolic Metamaterials using Metal Induced Crystallization
Lea Forster, ETH Zürich
 119. Optically Active Tuning of a Terahertz Metasurface Filter
Ahmed Jaber, University of Ottawa
 120. The curious case of blue leaves: active photonic structures in chloroplasts
Ruth Oulton, University of Bristol
 121. Encapsulated nanodiamonds for NV centre embedded silicon nitride quantum photonics
Jorge Monroy Ruz, University of Bristol
 122. Photoprotecting uracil with strong coupling
Simone Felicetti, Istituto di Fotonica e Nanotecnologie
 123. Non-Markovian stochastic resonance in an optical microcavity
Kevin Peters, AMOLF
 124. Optically-induced, Unity-order Permittivity Modulation in Undoped Zinc Oxide for Ultrafast Dynamic Nanophotonics
Soham Saha, Purdue University
 125. Multiplexed Single-Photon Source Based on Multiple Quantum Dots Embedded within a Single Nanowire
Patrick Laferriere, University of Ottawa
 126. Low-noise heterogeneous silicon photonic mode-locked laser-based dual-comb spectroscopy
Kasper Van Gasse, Ghent University – IMEC
- The following poster is presented in a virtual-reality (VR) poster session using Mozilla Hubs:
127. [Single-Layer Fisheye Metalens](#)
Mikhail Shalaginov, Massachusetts Institute of Technology
 128. Toward Scalable III-V Nanowire Networks for IR Photodetection
Nicholas Morgan, École Polytechnique Fédérale de Lausanne
 129. Low power optical nonlinearities in epsilon-near-zero metasurfaces
Laura Wynne, University of St. Andrews
 130. Frequency tripling via sum-frequency generation by individual AlGaAs nanocylinders
Attilio Zilli, Politecnico di Milano
 131. Blind Ghost Imaging
Jacopo Bertolotti, University of Exeter
 132. Internal structuring of silicon using THz-repetition-rate trains of ultrashort pulses
Andong Wang, CNRS/Aix-Marseille University
 133. Magnetoquasistatic Resonances of Small Dielectric Objects
Carlo Forestiere, University of Naples "Federico II"

134. Light Driven Hot Electron Electrochemistry
Hyun Uk Chae, University of Southern California
135. Nanoscale plasmonic slot waveguides and their application
Wolfgang Heni, Polariton Technologies Ltd.
136. Experimental and Theoretical Investigation of Excited-state Intramolecular Proton Transfer Processes of Benzothiazole Derivatives in Amino-polydimethylsiloxanes Before and After Crosslinking by CO₂
Luís Duarte, Univerisity of Campinas
137. Optical Valley Polarization in Locally Strained Molybdenum Disulfide
Ata Ulhaq, Lahore University of Management Sciences
138. Enhanced quantum efficiency and delayed formation dynamics in two-dimensional single photon emitters coupled to dielectric nano-antennas
Luca Sortino, University of Sheffield
139. Fabrication free Laser-induced tuning of selected single molecule emission wavelength
Francesco S. Piccioli, National Institute of Optics Italy
140. All-dielectric programmable Huygens' metasurfaces for dynamic light wavefront control
Aleksandrs Leitis, École Polytechnique Fédérale de Lausanne
141. Enhancing Electric Fields in High-Index Resonators by Flux Conservation of the Displacement Current Density
Bruno Miranda, Università degli Studi di Napoli "Federico II"
142. Photon correlations from interfering quantum fields
Fabrice Laussy, University of Wolverhampton & Russian Quantum Center
143. Ultrafast field driven nonlinear phenomena in two dimensional semiconductors
Seyyede Azar Oliaei Motlagh, Georgia State University
144. Controlled heat release at the nanoscale
Mariano Barella, National Scientific and Technical Research Council Argentina
145. Non-conservative rotation-translation coupling in vacuum optical traps
Yoshihiko Arita, University of St Andrews
146. Plasmon-Assisted Nanomagnet Switching with Femtosecond Laser Pulses
Aveek Dutta, Purdue University
147. From robust exceptional points to induced-topologically protected midgap states
Hamidreza Ramezani, University of Texas Rio Grande Valley
148. Interaction of solitons in unperturbed driven dissipative Kerr-nonlinear systems
Hossein Taheri, UC Riverside
149. Melting and quenching dynamics upon ultrafast laser irradiation of semiconductors: Towards deep amorphization for silicon photonics
Carlota Ruiz de Galarreta, University of Exeter
150. Interlayer Exciton Valleytronics in Bilayer Heterostructures Interfaced with a Metasurface
Mandar Sohoni, Indian Institute of Technology Bombay

The following three posters are presented in a virtual-reality (VR) poster session using Mozilla Hubs:

- 151. Metasurfaces for Chiral Surface Waves propagation
Sara Kandil, UC San Diego
- 152. Persistent self-induced Larmor precession in a light-matter quantum fluid
Alexis Askitopoulos, Skolkovo Institute of Science and Technology
- 153. Super-Resolution Mapping of Plasmon-Enhanced Processes
Ruben Hamans, Dutch Institute for Fundamental Energy Research

AI & Photonics

- 154. Removing Non-Resonant Background from CARS spectra via Deep Learning
Carlo Michele, Politecnico di Milano
- 155. Large-scale Ising Emulation with Four-Body Interaction and All-to-All Connection
Santosh Kumar, Stevens Institute of Technology
- 156. Illuminating complex systems with light states made to measure
Dorian Bouchet, Utrecht University
- 157. Neural-network based control of partially measured photonic systems
Babak Rahmani, École Polytechnique Fédérale de Lausanne
- 158. DeepTrack: A comprehensive deep learning framework for digital microscopy
Saga Helgadottir, Gothenburg University
- 159. Computational fluorescence imaging inside complex media
Antoine Boniface, LKB - ENS - CNRS
- 160. Global Optimization of Discrete Photonic Problems
Jagrit Digani, UC Los Angeles
- 161. All-optical computing metasurfaces performing mathematical operations
Andrea Cordaro, AMOLF
- 162. Feedforward-enhanced photonic Fock state conversion
Vojtech Svarc, Palacký University Olomouc
- 163. Widefield light sheet microscopy using an Airy beam combined with deep-learning super-resolution
Stella Corsetti, University of St Andrews
- 164. Array-level inverse design of active metasurfaces
Prachi Thureja, California Institute of Technology
- 165. *Title unavailable*
Erfan Khoram, University of Wisconsin-Madison
- 166. Learning quantum entanglement from incomplete measurements
Dominik Koutny, Palacký University Olomouc
- 167. Power Estimate of Scalable All-to-All Topologies with Silicon Photonics Links
Luca Ramini, Hewlett Packard Labs

168. Time optimization of quantum tomography for faster evaluation of photonic information processors
Radim Hosak, Palacký University Olomouc
169. Deep learning of liquid crystal operation: beyond polarization interpolation
Dominik Vařinka, Palacký University Olomouc
170. Neuromorphic Metasurface
Zhicheng Wu, University of Wisconsin-Madison
171. Deep learning enabled laser speckle wavemeter with a high dynamic range
Roopam Gupta, University of St. Andrews
172. Predicting supercontinuum generation dynamics with recurrent neural network
Lauri Salmela, Tampere University
173. Integrated Magnetless Optical Isolators using Cerium doped Terbium Iron Garnet
Karthik Srinivasan, University of Minnesota
174. Photonic quantum metrology enhanced by machine learning
Emanuele Polino, La Sapienza University of Rome
175. Engineering and characterization of structured light
Alessia Suprano, La Sapienza University of Rome
176. Detection of photon statistics and correlation functions with entropic regularization
Josef Hloušek, Palacký University Olomouc
177. Pitfalls of Simulation-Based Deep Learning
Joachim Piprek, NUSOD Institute
178. Deep Learning augmented Computational Mesoscope for Single-Shot 3D Fluorescence Imaging
Yujia Xue, Boston University
179. Learning models of quantum systems from experiments
Brian Flynn, University of Bristol
180. Enhanced force-field calibration via machine learning
Aykut Argun, University of Gothenburg
181. Large-Scale Optical Reservoir Computing for Spatiotemporal Chaotic Systems Prediction
Mushegh Rafayelyan, Kastler-Brossel Laboratory
182. Deep learning and simulated annealing to use random photonic crystal waveguide as a spectrometer
Takumasa Kodama, Keio University
183. DeepTrack: A comprehensive deep learning framework for digital microscopy
Saga Helgadottir, Gothenburg University
184. Formation and stability of nonlinear waves in periodic systems with Peierls phase
Aleksey Verbitskiy, ITMO University
185. Deep learning single molecule localization for high density of emitters
Alex Duarte, ICFO - Institut de Ciències Fotòniques
186. Spiking VCSEL-neurons for ultrafast neuromorphic photonic computing systems
Matěj Hejda, University of Strathclyde
187. Multifunctional All-optical Deep Neural Network Metasurfaces
Xuhao Luo, Hunan University

188. A Cyclical Deep Learning Based Framework For Simultaneous Inverse and Forward design of Nanophotonic Metasurfaces
Abhishek Mall, Indian Institute of Technology-Bombay
189. Spectrally controllable network lasers
Dhruv Saxena, Imperial College London
190. Linear arbitrary transformations in linear optics in a reconfigurable platform
Aldo Martinez Becerril, University of Ottawa
191. Designing quantum optical hardware with digital quantum computers
Jakob Kottmann, University of Toronto
192. Freely-Scalable, Reconfigurable Digital Optical Neural Network
Liane Bernstein, Massachusetts Institute of Technology
193. Kick-starting mass photonic computing with optical proof of work
Bogdan Penkovsky, PoWx
194. Rough surface scattering inverse design based on deep learning
Hongting Xiong, Beihang University
195. Programmable Integrated Photonics
Daniel Pérez López, Photonics Research Labs

The following two posters are presented in a virtual-reality (VR) poster session using Mozilla Hubs:

196. Pattern recognition techniques for boson sampling validation
Iris Agresti, La Sapienza University of Rome
197. Learning under noise-perturbations in (photonic) hardware neural networks
Daniel Brunner, University of Burgundy

Other topics

198. Chiral Surface Lattice Resonances
Eric S.A. Görlitzer, Friedrich-Alexander-University Erlangen-Nürnberg
199. Athermalization rolled-up TiO₂ microtube ring resonator by incorporating a positive thermo-optic coefficient material in planar bilayers for visible photonics
Abbas Madani, AMO GmbH
200. Sorting The Radial Modes of Light
Xuemei Gu, Nanjing University
201. Thermally tunable metalens in the visible
Ren-Jie Lin, École Polytechnique Fédérale de Lausanne
202. Attometre-resolved wavelength measurements using speckle
Graham Bruce, University of St Andrews
203. Fully tunable and switchable coupler for photonic routing in quantum detection and modulation
Vojtech Svarc, Palacký University Olomouc
204. Characterisation of a deep-ultraviolet light-emitting diode emission pattern via fluorescence
Mollie McFarlane, University of Strathclyde

205. Optical ranging using lithium niobate electro-optic frequency combs
Yifan Qi, Tsinghua University
206. Sub-picosecond Time-resolved Cavity Ring-down Spectroscopy
Neus Allande Calvet, Friedrich Schiller University Jena
207. Whispering Gallery Mode Optical Microshell Resonator Infrared Detector
Vedant Pravin Sumaria, Northeastern University
208. Electrically Activated UV-A Filters Based on Electrochromic MoO_{3-x}
Aram Arash, RMIT University
209. Identifying Carbon as the Source of Visible Single Photon Emission from Hexagonal Boron Nitride
Noah Mendelson, University of Technology Sydney
210. Non-contact Cryogenic Thermometry Based on Upconverting Nanoprobes
Yunfei Shang, Harbin Institute of Technology
211. Faster and deeper super-resolved tracking of single nanoparticles in living cells
Fan Wang, University of Technology Sydney
212. Speckle-based determination of the polarisation state of single and multiple laser beams
Morgan Facchin, University of St. Andrews
213. Single-trapping using Plasmonic Metamaterial Tweezers
Domna Kotsifaki, Okinawa Institute of Science and Technology Graduate University
214. Generator of arbitrary classical photon statistics
Ivo Straka, Palacký University Olomouc
215. Counting Statistics of Actively Quenched SPADs Under Continuous Illumination
Ivo Straka, Palacký University Olomouc
216. Self-referenced hologram of a single photon beam
Sanjukta Kundu, University of Warsaw
217. Simulation of high energy ultrashort pulse generation in the all-fiber erbium-doped ring laser with a highly-nonlinear resonator
Aleksy Verbitskiy, ITMO University
218. Ultra high fidelity preparation and measurement of polarization using twisted nematic liquid crystals
Martin Bielač, Palacký University Olomouc
219. Thermal scanning probe lithography for nanoscale 2D and 3D photonics elements
Any Grushina, Heidelberg Instruments Nano
220. Complex vectorial optics through gradient index lens cascades
Chao He, University of Oxford
221. Omni-directional phase matching in zero-index media
Justin Gagnon, University of Ottawa
222. Holographic characterisation of subwavelength particles with deep learning enhanced holographic imaging
Daniel Midtvedt, Göteborgs Universitet
223. Functionalization of Polymer Fibers with Thermochromic Phase Change Materials
Henning Galinski, ETH Zürich
224. Nonlinearity of single-photon detectors: Avalanche diodes and superconducting nanowires
Josef Hloušek, Palacký University Olomouc

225. Thermo-Optical Nonlinearity of Metallic Nanoparticle(s)
Ieng-Wai Un, Ben-Gurion University of the Negev
226. Spatial self beam-cleaning in mode-locked multimode fiber laser
Ugur Tegin, École Polytechnique Fédérale de Lausanne
227. Focal field computation of an arbitrarily polarized beam inside a birefringent medium
Ravi Shivaraman, University of Oxford
228. Evaluation of instabilities in supercontinuum generation in a photonic crystal fibre
Benjamín Alonso, University of Salamanca
229. Femtosecond Laser Induced Periodic Surface Structures on Diamond
Ravi Shivaraman, University of Oxford
230. Defect passivation for high efficient perovskite light-emitting solar cells
Grigorii Verkhogliadov, ITMO University
231. Ultrafast fiber lasers and intracavity supercontinuum generation
Miguel Lopez-Ripa, University of Salamanca
232. Digital synthesis of multistage etalons for the transmission passband shaping
Faiza Iftikhar, Lahore University of Management Sciences
233. Efficient light trapping in the mid-infrared using gold – black phosphorus nanostructured absorbers
Romil Audhkhasi, University of Southern California
234. Bioinspired scattering materials: light transport in anisotropic, disordered systems
Gianni Jacucci, University of Cambridge
235. Passive optical time-of-flight for non-line-of-sight localization
Jeremy Boger-Lombard, Hebrew University
236. In-line generation of optical vortices via angular momentum transfer
Ignacio Lopez-Quintas, University of Salamanca
237. Super-resolution optical fluctuation image scanning microscopy (SOFISM)
Adrian Makowski, University of Warsaw

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Additional Support:

We would like to thank ETH Zurich for supporting this event.