

| ID | Presenting Author                | Title   | Session I,<br>Thursday<br>20.07.23 | Session II,<br>Monday<br>24.07.23 |
|----|----------------------------------|---|------------------------------------|-----------------------------------|
| 1  | Dongning Liu                     | On-Chip Reconfigurable Entanglement Distribution Network  | X                                  |                                   |
| 2  | Tianchang Li                     | On-chip Free Electron Terahertz Radiation Source  |                                    | X                                 |
| 3  | Tian Tian                        | Free-Space Multi-Port Beam Splitter with Arbitrary Power Ratio Based on Metasurface   | X                                  |                                   |
| 4  | Shijie Rao                       | Metasurface-based Optical Neural Network for In-sensor Computing  |                                    | X                                 |
| 5  | Abdelhamid El Kaaouchi           | Modeling the Bulk and Nanometric Dielectric Functions of Au and Ag  | X                                  |                                   |
| 6  | Maeva Fagot                      | MIR Sb-based Interband cascade lasers on metamorphic substrates   |                                    | X                                 |
| 7  | Jens-Christian Drawer            | Monolayer-based single photon source in an open cavity featuring 65 % brightness and quantum coherence                                  | X                                  |                                   |
| 8  | Hancheng Zhong                   | Ultra-low threshold continuous-wave quantum dot mini-BIC lasers   |                                    | X                                 |
| 9  | Victor Lopez-Richard             | Challenges of electronic and opto-electronic nonlinear systems with inherent memory   | X                                  |                                   |
| 10 | Ning Wu                          | On-chip mechanical exceptional points based on an optomechanical zipper cavity  |                                    | X                                 |
| 11 | Mariama Rebello Sousa Dias       | Emitter Design for Thermophotovoltaics Operating at Ultra-High Temperature  | X                                  |                                   |
| 12 | Simon Betzold                    | Room temperature exciton-polariton lasing in an organic honeycomb lattice   | X                                  |                                   |
| 13 | Yao Xiao                         | Ultrahigh slope efficiency and High-Power 15-Junction VCSEL for Enhanced Laser Radar and 3D Sensing Applications                        | X                                  |                                   |
| 14 | Borislav Petrović                | Advantages of bulk AlGaAsSb claddings in Interband Cascade Lasers   | X                                  |                                   |
| 15 | Johannes Michl                   | Strain-free GaSb quantum dots as single-photon sources in the telecom S-band  |                                    | X                                 |
| 16 | Kartik Gaur                      | Cavity effects and high- $\beta$ lasing in hybrid resonators embedding InGaAs quantum dots.   |                                    | X                                 |
| 17 | Moritz Meinecke                  | A tunable transmission grating monochromator for efficient frequency filtering  |                                    | X                                 |
| 18 | Samuel Jones                     | GaSb/GaAs Quantum-Rings in Vertical-Cavity Surface-Emitting Lasers for Communication and Sensing  |                                    | X                                 |
| 19 | Alisha Nanwani                   | Selective Area Epitaxy of InAs Nanostructures on Silicon  | X                                  |                                   |
| 20 | Ido Schwartz                     | The quantum knitting machine - a continuous, deterministic quantum light source   |                                    | X                                 |
| 21 | Gizem Acar                       | Cavity-Enhanced Emission using GaSb Quantum Rings at Telecom Wavelengths  | X                                  |                                   |
| 22 | Tobiloba Fabunmi                 | Scalable light emitting devices based on TMDC monolayers: Impact of carrier balance   |                                    | X                                 |
| 23 | Sarthak Tripathi                 | High- $\beta$ quantum dot micropillar lasers operating at room temperature  | X                                  |                                   |
| 24 | Andreas Windischhofer            | Modeling of charge transport in interband cascade lasers  |                                    | X                                 |
| 25 | Andreas Pfenning                 | A Plug-and-Play Fiber-Coupled Quantum Dot Single-Photon Source Using Photonic Wire Bonds  |                                    | X                                 |
| 26 | Manuel Meyer                     | Optical and electrical tuning between the normal insulating and topological insulating phase of InAs/GaSb bilayer quantum wells         |                                    | X                                 |
| 27 | Elena Arigliani                  | Low loss polyethylene-loaded plasmonic waveguides for mid-infrared photonic integrated circuits   | X                                  |                                   |
| 28 | Adan Azem                        | Fiber-coupled Arrays of Integrated Superconducting Nanowire Single Photon Detectors   |                                    | X                                 |
| 29 | Andreas Bader                    | Interband Cascade Infrared Photodetectors Based on Ga-Free Superlattice Absorbers   | X                                  |                                   |
| 30 | Antonina Bieganowska             | Exploring dynamics and effective interactions in a photonic condensate inside an optical trap   | X                                  |                                   |
| 31 | Emilia Zięba-Ostój               | The spectroscopic method used to estimate charge carrier density in a monolayer MoTe <sub>2</sub> in a metal oxide semiconductor device | X                                  |                                   |
| 32 | Giulio Barbieri                  | InAs/InP quantum dots grown by solid source MBE with emission at 1550 nm  |                                    | X                                 |
| 33 | Atanu Patra and Vishakha Kaushik | Light-matter interaction in semiconductor-superconductor Van der Waals Heterostructure  | X                                  |                                   |
| 34 | Quirin Buchinger                 | Advances in hyperspectral imaging of semiconductor quantum dots   |                                    | X                                 |
| 35 | Giora Peniakov                   | The Origin of Polarized Emission in Quantum Dot Bullseye Resonator  | X                                  |                                   |
| 36 | Marco De Gregorio                | Phase Stabilization of Quantum Dot Emission via Feedback in a Tritter-based Mach-Zehnder Interferometer                                 |                                    | X                                 |
| 37 | Johannes Dürer                   | Realization of Higher Order Topological Insulators in Hybrid Dielectric-Semiconductor Microcavities                                     |                                    | X                                 |
| 38 | Jochen Kaup                      | Purcell-Enhanced Emission of Single-Photons in the Telecom-C Band from Quantum Dots in Circular Bragg Grating Resonators                | X                                  |                                   |
| 39 | Fauzia Jabeen                    | Metamorphic Buffer Layer Platform for 1550 nm Single-Photon Sources Grown by MBE on (100) GaAs Substrate                                |                                    | X                                 |
| 40 | Jonas Kapraun                    | Polarized Structured Light 3D Camera  | X                                  |                                   |