



4th Global Summit & Expo on
Laser Optics & Photonics
 April 15-16, 2019 in Dubai, UAE

| Day 1 April 15, 2019 | |
|-----------------------------|--|
| MainHall | |
| 08:30-09:30 | Registrations |
| 09:30-09:35 | Introduction |
| 09:35-10:00 | Opening Ceremony |
| Chair | Xi-Cheng Zhang, University of Rochester, USA. |
| 10:00-10:15 | Honory Speech |
| Plenary Session | |
| 10:15-10:55 | Title: Mission Impossible: Generation of THz Wave from Liquid Water Xi-Cheng Zhang, University of Rochester, USA. |
| 10:55-11:35 | Title: How to increase Q factor in system of dielectric particles. Bound states in the continuum Almas F Sadreev, Kirensky Institute of Physics, Krasnoyarsk, Russia. |
| Coffee Break | |
| 11:50-12:30 | Title: Broadband mid-infrared detection based Si technology Ching-Fuh Lin, National Taiwan University, Taiwan. |
| 12:30-13:30 | Lunch Break |
| Keynote Session | |
| 13:30-14:00 | Title: Quantum dot nanowires for single photon sources Sofiane Haffouz, The National Research Council of Canada, Canada. |
| 14:00-14:30 | Title: Generation and application possibilities of THz pulses with extremely high field strength János Hebling, University of Pécs, Hungary. |
| 14:30-15:00 | Title: Donor-Acceptor Fluorescent Molecules for Optoelectronic and Biomedical Applications Atul Goel, Central Drug Research Institute, Lucknow, India. |

| | |
|----------------------|---|
| Session 1 | |
| Session Chair | Kun Li, University of Cambridge, United Kingdom. |
| 15:00-15:20 | Title: Liquid Crystal micro-lens arrays and some applications Kun Li, University of Cambridge, United Kingdom. |
| 15:20-15:40 | Title: A single image super-resolution algorithm using maximum noise fraction transform Shaheera Rashwan, City of Scientific Research, Egypt. |
| 15:40-16:00 | Title: Underwater Wireless Optical Communications for Short Range Typical Ocean Water Types Ehab Salah Hashiem, Menoufia University, Egypt. |
| 16:00-16:15 | Coffee Break |
| 16:15-16:35 | Title: Graphene Structures for Terahertz Wave Manipulation and Amplification Montasir Qasymeh, Abu Dhabi University, United Arab Emirates. |
| 16:35-16:55 | Title: Single-cycle carrier envelope phase stable attosecond pulse generation based on radiation of nanobunched electron beam. György Tóth, The University of Pécs, Hungary. |
| 16:55-17:15 | Title: Optical metrology by dynamic speckle analysis – algorithms, quality enhancement and applications Elena Stoykova, Bulgarian Academy of Sciences, Bulgaria. |
| 17:15-17:35 | Title: High Sensitive Trace Gas Detection based on Quartz-enhanced Photoacoustic Spectroscopy Yufei Ma, Harbin Institute of Technology, China. |
| 17:35-17:55 | Title: Unguided Optical communication Limitations in Transmission Levels for different areas Network Applications Ehab Salah Hashiem, Menoufia University, Egypt. |
| 17:55-18:15 | Title: On-demand quantum coherence control for wavelength conversion using controlled rephasing Byoung Ham, Gwangju Institute of Science and Technology, South Korea. |
| 18:15-18:35 | Title: Quantitative analysis of the proportion of lateral high-order modes in lasing emission Wanhua Zheng, Institute of Semiconductors, Chinese Academy of Sciences, China. |
| 18:35-18:55 | Title: Investigation Of Responsivity For Inp Based Heterojunction Bipolar Phototransistor Ouchrif Jihane, Hassan II University of Casablanca, Morocco. |

| | |
|-----------------------------|--|
| 18:55-19:15 | Title: Fantastic features of the diffraction from radial structures Saifollah Rasouli, Institute for Advanced Studies in Basic Sciences, Iran. |
| 19:15-19:35 | Title: Evaluation the effect of low Level laser on liposome's containing chemotherapy drug (Docetaxel) and compare with prescribed chemotherapy drugs (Docetaxel) procedure in prostate cancer cells in vitro Ehsan Kamani, University of Medical Sciences, Iran. |
| 19:35-19:55 | Title: Moiré technique and singular optics and their mutual applications Saifollah Rasouli, Institute for Advanced Studies in Basic Sciences, Iran. |
| 19:55-20:00 | Panel Discussion |
| Day 2 April 16, 2019 | |
| MainHall | |
| Plenary Session | |
| 10:00-10:40 | Title: 3D flow reconstruction by digital holographic tomography Jean Michel DESSE, ONERA, France. |
| 10:40-11:20 | Title: Coherent short-wavelength radiation generation in laser-produced plasmas: perspectives Rashid Ganeev, Voronezh State University, Russian Federation |
| 11:20-11:35 | Coffee Break |
| Keynote Session | |
| 11:35-12:05 | Title: Wearable Sensors based on Nanopatterned Contact Lenses Haider Butt, The University of Birmingham, Edgbaston, UK. |
| 12:05-12:35 | Title: High Refractive Index Dielectric Nanoantennas: A novel way to control light-matter interaction Pablo Albella, University of Cantabria, Spain. |
| 12:35-13:35 | Lunch Break |
| 13:35-14:05 | Title: Optically engineering tunable attenuators Jorge Ojeda-Castaneda, Universidad de Guanajuato, Mexico. |
| Session1 | |
| Session Chair | Boris Zhdanov, US Air Force Academy, United States |
| 14:05-14:25 | Title: Diode Pumped Alkali Laser: the most promising candidate to produce high laser power with excellent beam quality Boris Zhdanov, US Air Force Academy, United States. |

| | |
|-------------|--|
| 14:25-14:45 | <p>Title: Light Propagation Analysis for Optical Surface Shape Design with Shape Parameters</p> <p>Daisuke Barada, Utsunomiya University, Japan.</p> |
| 14:45-15:05 | <p>Title: Femtosecond Laser Direct Writing of in-Fiber Interferometers and Their Sensing Applications</p> <p>Xuwen Shu, Huazhong University of Science and Technology, China.</p> |
| 15:05-15:25 | <p>Title: Helicity-dependent THz emission of topological insulators</p> <p>Chih-Wei Luo, National Chiao Tung University, Taiwan.</p> |
| 15:25-15:45 | <p>Title: Digital Signal Processing for Flexible Optical Transceivers</p> <p>Ing Werner Rosenkranz, University of Kiel, Germany.</p> |
| 15:45-16:05 | <p>Title: External Cavity Based Single Mode Fabry-Perot Laser diode for Optical Communication</p> <p>Bikash Nakarmi, Nanjing University of Aeronautics and Astronautics, China.</p> |
| 16:05-16:20 | <p>Coffee Break</p> |
| 16:20-16:40 | <p>Title: Quantum information processing with orbital angular momentum states</p> <p>Bao-Sen Shi, University of Science and Technology of China, China.</p> |
| 16:40-17:00 | <p>Title: Coherent Transition Radiation in THz range from Laser-Plasma Interaction</p> <p>Ding Wenjun, Institute of for Sciences, Technology and Research, Singapore.</p> |
| 17:00-17:20 | <p>Title: Gravity and light repel each other</p> <p>Iraj Khalilymoghadam, Iran.</p> |
| 17:20-17:40 | <p>Title: Effect of annealing temperature on structural and optical properties of thallium indium disulphide thin films</p> <p>Ipek Guler, Cankaya University, Turkey.</p> |
| 17:40-18:00 | <p>Title: X-ray pulse laser preparation on base of the waveguide-resonance phenomenon original application</p> <p>Egorov Vladimir Konstantinovich, Russian Academy of Science, Russia.</p> |
| 18:00-18:20 | <p>Title: Interaction of CNT-graphene composite films and protein matrix with electromagnetic waves of IR-visible-UV Range</p> <p>Olga E Glukhova, Saratov State University .</p> |

| | |
|---|--|
| 18:20-18:40 | Title: Coherent proprieties of entangled bi-modal field and its application in holography and communication |
| | Nicolae A. Enaki, Institute of Applied Physics, Moldova. |
| 18:40-19:00 | Title: Surface Electromagnrtic Waves: Past, Present, Future |
| | Vladimir Datsko, Institute of Applied Geophisics, Russia. |
| 19:00-19:20 | Title: Non-classical light sources generation and processing based on silicon on insulator waveguide |
| | Zhi-Yuan Zhou, University of Science and Technology of China, China. |
| 19:20-19:40 | Title: Ge2Sb2Te5-based Conductive Bridge Random Access Memory. |
| | Niloufar Raeis Hosseini, Pohang University of Science and Technology, United Kingdom. |
| 19:40-20:00 | Title: Compensation for the thermal effect in high power solid-state laser with good beam quality |
| | Gholamreza Shayeganrad, University of Southampton, United Kingdom. |
| Poster Presentations on Day 2 April 16, 2019 | |
| P-001 | Title: Design and simulation of polymer based photonic components |
| | Dana Seyringer, Vorarlberg University of Applied Sciences, Austria. |
| P-002 | Title: Holographic Writing of Ink-Based Phase Conjugate Nanostructures <i>via</i> Laser Ablation |
| | Muhammad Waqas Khalid, University of Birmingham, United Kingdom. |
| ***Note: This is a Tentative Program, it is Subjected to slight changes till Final Program | |