

**INTER  
PHOTONICS** 2018

**International Conference on Photonics Research**

Limak Limra Hotels & Resort, Kemer / Antalya - TURKEY  
October 8-12, 2018



**INTER- PHOTONICS 2018**  
**INTERNATIONAL CONFERENCE ON PHOTONICS RESEARCH**

**OCTOBER 8-12, 2018**

**INTERCOLM** 2018

**International Congress on Optics and Lasers in Medicine**

Limak Limra Hotels & Resort, Kemer / Antalya - TURKEY  
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**INTER- COLM 2018**  
**INTERNATIONAL CONGRESS ON OPTICS AND LASERS IN MEDICINE**

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**Limak Limra Hotels & Resort, Kemer**  
**ANTALYA / TURKEY**

<b>PROGRAM</b> <b>SATURDAY, OCTOBER 06, 2018</b>	
<i>14:00-23:30</i>	<i>REGISTRATION FOR EARLY ARRIVALS</i> <i>(14:00 Check-in)</i>

<b>PROGRAM</b> <b>SUNDAY, OCTOBER 07, 2018</b>	
<i>9:00-23:30</i>	<i>REGISTRATION</i> <i>(14:00 Check-in)</i>

**PROGRAM**  
**MONDAY, OCTOBER 08, 2018**

**ASPENDOS II**

<b>OPENING SESSION</b> 10:00-10:45	<p>Chairperson: <b>Ersin Kayahan</b></p> <p style="text-align: center;"><b>Thomas G. Brown</b> University of Rochester, USA</p> <p style="text-align: center;"><i>“Fundamentals and Applications of Stress Engineered Optical Elements”</i></p>
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10:45-11:20	<b>COFFEE BREAK</b>
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<b>INTERPHOTONICS</b>			
	<b>Aspendos II</b>	<b>Aspendos III</b>	
<b>PARALLEL SESSIONS 11:20-12:50</b> <b>MONDAY, OCTOBER 08</b>	<p>Chairperson: <b>Laeticia Petit</b></p> <p style="text-align: center;">(11:20-11:50) <b>Laeticia Petit</b></p> <p style="text-align: center;">Tampere University of Technology, Finland</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“New biophotonic materials from persistent luminescent particles containing bioactive glasses”</p> <p style="text-align: center;">(11:50-12:20) <b>Rossella Castagna</b> Institute for Bioengineering of Catalonia (IBEC), Spain</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Switching with light: a palette of opportunities with photochromic materials”</p> <p style="text-align: center;">(12:20-12:50) <b>Eugene Glushko</b> Institute of Semiconductor Physics Ukraine</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Pneumatic photonic crystals: properties and application in sensing and metrology”</p>	<p>Chairperson: <b>Yves-Alain Peter</b></p> <p style="text-align: center;">(11:20-11:50) <b>Yves-Alain Peter</b></p> <p style="text-align: center;">Polytechnique Montréal Canada</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Resonant optical devices on chip for bio/chemical sensing”</p> <p style="text-align: center;">(11:50-12:20) <b>Abderrazzak Douhal</b> Universidad de Castilla la Mancha, Spain</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“From Fundamental Spectroscopy of MOFs to Lighting Applications”</p> <p style="text-align: center;">(12:20-12:50) <b>Kary Thanapalan</b> University of South Wales, UK</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Development of a Self-sustainable PV - Energy Supply System for Domestic Consumption”</p>	<p>Chairperson: <b>Diing Shenp ANG</b></p> <p style="text-align: center;">(11:20-11:50) <b>Diing Shenp ANG</b></p> <p style="text-align: center;">Nanyang Technological University, Singapore</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Making Wide-Bandgap Oxides “See” Light – A Prospective Approach for Low-Cost, Ultra-Low-Power Optical Sensing”</p> <p style="text-align: center;">(11:50-12:20) <b>Dana Cristea</b> IMT Bucharest, Romania</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“PbS Quantum Dots and Nanocomposites for Solution Processed Broadband Photodetectors”</p> <p style="text-align: center;">(12:20-12:40) <b>Servet ÇETİNKAYA</b> Konyagöz Hospital, Turkey</p> <p style="text-align: center;"><b>(ID 229)</b></p> <p>THE RESULTS OF WFG FS- LASIK PROCEDURE IN TREATMENT OF MYOPIA AND MYOPIC ASTIGMATISM</p>

12:50-14:00	<b>LUNCH</b>			
	<b>INTERPHOTONICS</b>			
<b>PARALLEL SESSIONS 14:00-15:30</b> <b>MONDAY, OCTOBER 08</b>	<b>Aspendos II</b>	<b>Aspendos III</b>	<b>Aspendos IV</b>	
	<p><i>Chairperson:</i> <b>YONG-ILL LEE</b></p> <p style="text-align: center;">(14:00-14:30) <b>YONG-ILL LEE</b></p> <p style="text-align: center;">Changwon National University, Korea, Rep. of</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Targeted Imaging and Drug Delivery for Prostate Cancer Cells using Upconversion Nanoparticles Functionalized with Phosphate Micelles”</p> <p style="text-align: center;">(14:30-15:00) <b>Toshiyuki Watanabe</b> Tokyo Univ. of Agri. &amp; Tech., Japan</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Efficient Persistent Room Temperature Phosphorescence in Amorphous Polymers under Ambient Conditions”</p> <p style="text-align: center;">(15:00-15:30) <b>Goutam Das</b> GSSST, IIT Kharagpur, India</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Flexible Secure TWDM PON and its Future Application”</p>	<p><i>Chairperson:</i> <b>Radan Slavik</b></p> <p style="text-align: center;">(14:00-14:30) <b>Radan Slavik</b></p> <p style="text-align: center;">University of Southampton, UK</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Thermal Sensitivity of Phase and Propagation Delay in Hollow-Core Fibres”</p> <p style="text-align: center;">(14:30-15:00) <b>Matteo Salvato</b> University of Rome "Tor Vergata" Italy</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Gate effect on time response and responsivity in single walled carbon nanotube/Si photodetectors”</p> <p style="text-align: center;">(15:00-15:30) <b>Ashok Vudayagiri</b> University of Hyderabad, India</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Atmospheric effects of depolarization in free space communication : How to overcome it’</p>	<p><i>Chairperson:</i> <b>Gin Jose</b></p> <p style="text-align: center;">(14:00-14:30) <b>Gin Jose</b></p> <p style="text-align: center;">University of Leeds, United Kingdom</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Ultrafast laser plasma doping- a novel approach to photonic materials and devices engineering”</p> <p style="text-align: center;">(14:30-15:00) <b>Tsung-Tse Lin</b> RIKEN, Japan</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Optimization of terahertz quantum cascade lasers by suppressing a carrier leakage channel via a high energy state”</p> <p style="text-align: center;">(15:00-15:30) <b>Tatyana Murashkina</b> Penza state university, Russian Federation</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Development of fiber-optic sensors for use in harsh environments”</p>	
15:30-15:40	<b>COFFEE BREAK</b>			

<b>INTERPHOTONICS</b>				
	<b>Aspendos II</b>	<b>Aspendos III</b>	<b>Aspendos IV</b>	
<b>PARALLEL SESSIONS 15:30-17:40 MONDAY, OCTOBER 08</b>	<p><i>Chairperson:</i> <b>Iman Roqan</b></p> <p style="text-align: center;">(15:40-16:10) <b>Iman Roqan</b> KAUST, Saudi Arabia</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>‘III-nitride emitting devices grown on (-201)-oriented <math>\beta</math>-Ga<sub>2</sub>O<sub>3</sub> subst</p>	<p><i>Chairperson:</i> <b>Chaitanya Kumar Suddapalli</b></p> <p style="text-align: center;">(15:40-16:10) <b>Chaitanya Kumar Suddapalli</b> ICFO Institute of Photonic Sciences, Spain</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Optical parametric oscillators based on novel mid-infrared nonlinear materials”</p>	<p><i>Chairperson:</i> <b>Muhammad Faryad</b></p> <p style="text-align: center;">(15:40-16:10) <b>Muhammad Faryad</b> Lahore University of Management Sciences, Pakistan</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“Zero-index mediums using two dimensional all-dielectric photonic”</p>	
	<p style="text-align: center;">(16:10-16:40) <b>Shadia Ikhmayies</b> Isra University, Jordan</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Photoluminescence of ZnO Micro Structured Thin Films Prepared by the Spray Pyrolysis Method’</p>	<p style="text-align: center;">(16:10-16:40) <b>Abdullah Zakariya</b> Saad AlAbdallah Academy for Security Sciences, Kuwait</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Tunable QW laser and LEDs devices”</p>	<p style="text-align: center;">(16:10-16:40) <b>Rodion Reznik</b> St-Petersburg Academic University, Russian Federation</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“MBE growth and properties of III-V and nitride nanowires on hybrid SiC/Si substrates”</p>	
	<p style="text-align: center;">(16:40-17:10) <b>Amal Al-Yasiri</b> University of Baghdad, Iraq</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Effect of Low-Power Laser Irradiation Time on Human Blood Cells”</p>	<p style="text-align: center;">(16:40-17:10) <b>Nisha Rani Agarwal</b> University of Ontario Institute of Technology, Canada</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“SIMULTANEOUS NANOSCALE MEASUREMENT OF PHYSICAL-CHEMICAL PROPERTIES OF SOFT MATERIALS BY NOVEL AFM-INTERMODULATION TECHNIQUE”</p>	<p style="text-align: center;">(16:40-17:10) <b>George Cirlin</b> St. Petersburg Academic University RAS, Russian Federation</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Growth and optical properties of A3B5 nanowires grown by molecular beam epitaxy on silicon”</p>	
	<p style="text-align: center;">(17:10-17:40) <b>Aharon Gedanken</b> Bar-Ilan University, Israel</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“ The Fluorescence Properties of Carbon Dots and Metal doped Carbon Dots”</p>	<p style="text-align: center;">(17:10-17:40) <b>Viacheslav Artyushenko</b> Art photonics GmbH, Germany</p> <p style="text-align: center;"><b>(Invited Speaker)</b></p> <p>“InfraRed Fiber Optics for Photonics Applications in 2-16<math>\mu</math>m Range”</p>	<p style="text-align: center;">(17:10-17:40) <b>Emir Salih Magden</b> Koç University, Turkey</p> <p style="text-align: center;"><b>(Invited speaker)</b></p> <p>“Silicon Photonics for Ultra-broadband Applications”</p>	

**PROGRAM**

**TUESDAY, OCTOBER 09, 2018**

	<b>INTERPHOTONICS</b>			<b>INTERCOLM</b>
	<b>Aspendos II</b>	<b>Aspendos III</b>	<b>Aspendos IV</b>	<b>Aspendos V</b>
	<b>PARALLEL SESSIONS 09:30-11:00 TUESDAY, OCTOBER 09</b>	<p>Chairperson: <b>Fernando Lahoz</b></p> <p align="center">(09:30-10:00) <b>Fernando Lahoz</b> University of La Laguna, Spain</p> <p align="center"><b>(Invited Speaker)</b></p> <p>‘Fluorescent Optical Microresonators for Optofluidic Sensor Applications’</p> <p align="center">(10:00-10:30) <b>Yohei AIKAWA</b> National Inst. of Tech. Japan</p> <p align="center"><b>(Invited Speaker)</b></p> <p>“Optical Comparator for PSK-modulated Signals by Using Serially-Cascaded Delay Line Interferometer”</p> <p align="center">(10:30-11:00) <b>Vladimir Borisov</b> ITMO University, Russian Federation</p> <p align="center"><b>(Invited Speaker)</b></p> <p>“Volume holographic gratings in photopolymeric materials doped with quantum dots for distributed feedback lasers”</p>	<p>Chairperson: <b>Takayuki Kurosu</b></p> <p align="center">(09:30-10:00) <b>Takayuki Kurosu</b> National Institute of Advanced Industrial Science and Technology, Japan</p> <p align="center"><b>(Invited speaker)</b></p> <p>“Characteristics and Field Operation of Polarization-Insensitive Silicon Photonics 8x8 Optical Switch”</p> <p align="center">(10:00-10:30) <b>Yong Zhang</b> UNC-Charlotte, United States</p> <p align="center"><b>(Invited Speaker)</b></p> <p>“Highly ordered and stable inorganic-organic hybrid quantum structures based on II-VI compounds”</p> <p align="center">(10:30-10:50) <b>Gustav Schweiger</b> Ruhr-University Bochum Germany</p> <p align="center"><b>(ID 200)</b></p> <p>“Optical-Microresonator- Array-Sensor (OMAS)”</p>	<p>Chairperson: <b>Ekaterina Kunitsyna</b></p> <p align="center">(09:30-10:00) <b>Ekaterina Kunitsyna</b> Ioffe Institute, Russian Federation</p> <p align="center"><b>(Invited speaker)</b></p> <p>“Mid-Infrared Photonics: LEDs and Photodiodes for Sensing Applications”</p> <p align="center">(10:00-10:30) <b>Hairul Azhar Abdul-Rashid</b> Multimedia University, Malaysia</p> <p align="center"><b>(Invited speaker)</b></p> <p>“ Radiation Dosimetry using Specialty Optical Fibers”</p> <p align="center">(10:30-10:50) <b>Azlan M.N</b> Sultan Idris Education University, Malaysia</p> <p align="center"><b>(Invited Speaker)</b></p> <p>“Enhanced optical properties of neodymium doped tellurite glass for advanced laser glass”</p>
11:00-11:10	<b>COFFEE BREAK</b>			

<b>PARALLEL SESSIONS 11:10-12:40 TUESDAY, OCTOBER 09</b>	<p>Chairperson: <b>Dana Seyringer</b></p> <p>(11:10-11:40) <b>Dana Seyringer</b> Vorarlberg University of Applied Sciences, Austria</p> <p><b>(Invited speaker)</b></p> <p>“Arrayed waveguide gratings: design and applications”</p>	<p>Chairperson: <b>Ranjana Jha</b></p> <p>(11:10-11:40) <b>Ranjana Jha</b> Delhi University, India</p> <p><b>(Invited Speaker)</b></p> <p>“Can Quantum Dot Sensitized Solar Cells be a Potential Contender of Energy Crisis?”</p>	<p>Chairperson: <b>Philippe Helin</b></p> <p>(11:10-11:40) <b>Philippe Helin</b> Imec, Belgium</p> <p><b>(Invited Speaker)</b></p> <p>“Advanced Silicon Nitride Platforms for Photonic Integrated Circuits”</p>	<p>Chairperson: <b>Nicola Daldosso</b></p> <p>(11:10-11:40) <b>Nicola Daldosso</b> University of Verona, Italy</p> <p><b>(Invited speaker)</b></p> <p>“Luminescent porous Si for nanomedicine”</p>
	<p>(11:40-12:10) <b>Tatiana Perova</b> Trinity College Dublin, Ireland</p> <p><b>(Invited Speaker)</b></p> <p>“Multichannel Si Photonic Crystal Filters with Fine-Tuning Capability of Individual Channels for Sensing and Optical Interconnect Applications</p>	<p>(11:40-12:10) <b>Alfredo Gonzalez-Fernandez</b> National Institute of Astrophysics, Optics, and Electronics (INAOE) Mexico</p> <p><b>(Invited Speaker)</b></p> <p>“Luminescence from SRO-Si3N4 nano-layered systems for electrophotonic integration”</p>	<p>(11:40-12:10) <b>Mohd Hasmizam Razali</b> Universiti Malaysia Terengganu, Malaysia</p> <p><b>(Invited Speaker)</b></p> <p>“Green Emitting Phosphor Coupled TiO2 Nanotubes as Effective and Efficient Photocatalyst for Pollutant Elimination”</p>	<p>(11:40-12:10) <b>Libor Mrňa</b> Institute of Scientific instruments CAS, Czech Republic</p> <p><b>(Invited Speaker)</b></p> <p>“The use of laser welding and the keyhole effect for increase of thermal efficiency of the solar absorber”</p>
	<p>(12:10-12:30) <b>Fatemeh Zabihi</b> Donghua University, China</p> <p><b>(Id-097)</b></p> <p>“Room temperature sol-gel strategy for fabrication of high performance metal-oxide thin films as ETL in flexible planar heterojunction perovskite solar cells’</p>	<p>(12:10-12:40) <b>Mohamed Bouazaoui</b> University of Lille, France</p> <p><b>(Invited Speaker)</b></p> <p>“Doped sol-gel silica glasses for radiation dosimetry in harsh environment”</p>	<p>(12:10-12:40) <b>Bernard Kress</b> Microsoft Corp. USA</p> <p><b>(Invited Speaker)</b></p> <p>“Waveguide combiner technologies for Mixed Reality headsets”</p>	<p>(12:10-12:40) <b>AKBI MOHAMED</b> University of Bumerdes, Algeria</p> <p><b>(Invited Speaker)</b></p> <p>“Influence of Arcing in Air on Electron Work Function for Silver-Metal Oxide (Ag-MeO) Electrical Contacts’</p>
12:40-13:30	<b>LUNCH</b>			
13:30-18:00 Tuesday <b>OCTOBER 09</b>	<p><b>SOCIAL PROGRAM-1</b></p> <p><b>PHASELIS ANCIENT SITE &amp; BOAT TOUR</b></p> <p><b>(Gathering at Congress registration desk)</b></p>			
<p><b>PROGRAM</b></p> <p><b>WEDNESDAY, OCTOBER 10, 2018</b></p>				
09:00-12:00 Wednesday <b>OCTOBER 10</b>	<p><b>SOCIAL PROGRAM-2</b></p> <p><b>ANTALYA SHOPPING</b></p> <p><b>(Gathering at Congress registration desk)</b></p>			

12:00-13:00	<b>LUNCH</b>			
<b>PARALLEL SESSIONS: 13:00-14:30</b> <b>WEDNESDAY, OCTOBER 10</b>	<b>INTERPHOTONICS</b>			<b>INTERCOLM</b>
	<b>Aspendos II</b>	<b>Aspendos III</b>	<b>Aspendos IV</b>	<b>Aspendos V</b>
	Chairperson: <b>Kenza GAIZI</b>  (13:00-13:30) <b>Kenza GAIZI</b> Al Akhawayn University Ifrane, Morocco  <b>(Invited speaker)</b>  "Applying Security-Aware Traffic Policing and Shaping strategies with Dynamic Routing and Wavelength Assignment Attack Aware Algorithm in WDM Optical Networks"  (13:30-14:00) <b>Ana Lopez Hernández</b> Universidad Politecnica de Madrid, Spain <b>(Invited speaker)</b>  "Arrays of Resonant Nanopillars as Multiplexed Optical Transducers for high sensitivity biosensing"  (14:00-14:20) <b>Kevin Soler Carracedo</b> University of La Laguna (ULL), Spain  <b>(Id-043)</b>  "Optical sensing in biological tissue based on resonant microcavities"	Chairperson: <b>Ryszard Piramidowicz</b>  (13:00-13:30) <b>Ryszard Piramidowicz</b> Warsaw University of Technology, Poland  <b>(Invited Speaker)</b>  "Luminescent polymer composites – a new class of active media"  (13:30-14:00) <b>Alexey Tsyganenko</b> St. Petersburg State University, Russian Federation <b>(Invited speaker)</b>  "IR Spectroscopy of Photoprocesses in Heterogeneous Systems"  (14:00-14:30) <b>Marija Ivanovic</b> Vinca Institute of Nuclear Sciences, Serbia  <b>(Invited speaker)</b>  "Application of optical fiber-grating sensors for air-leaks independent triggering in non-invasive mechanical ventilation"	Chairperson: <b>Anton Bourdine</b>  (13:00-13:30) <b>Anton Bourdine</b> Povolzhskiy State University of Telecommunications and Informatics, Russian Federation <b>(Invited Speaker)</b>  "Design of silica optical fibers with selected mode staff differential mode delay management"  (13:30-14:00) <b>Giovanni Pappaletta</b> Politecnico di Bari, Italy <b>(Invited speaker)</b>  "Design of on optical device endoral 3D contouring"  (14:00-14:30) <b>Ali A.Jasim</b> Institute of Photonics and Electronics of the Czech Academy of Sciences, Czech Republic  <b>(Invited speaker)</b>  "Optical Fiber Based Microstructures"	Chairperson: <b>Lev Matveev</b>  (13:00-13:30) <b>Lev Matveev</b> Institute of Applied Physics RAS, Russia <b>(Invited Speaker)</b>  "OCT blood and lymph microangiography: principles and applications"  (13:30-14:00) <b>Vladimir Zaitsev</b> Russian Academy of Sciences, Russia <b>(Invited Speaker)</b>  "Recent advances in optical coherence elastography for mapping strains and characterizing elastic properties of biological tissues"  (14:00-14:30) <b>Huseyin Ozgur Kazanci</b> Akdeniz University, Turkey  <b>(Invited Speaker)</b>  "Diffuse Optic Tomography Techniques for Biomedical Imaging"
	14:30-14:40			



<b>PARALLEL SESSIONS: 14:40-15:40 WEDNESDAY, OCTOBER 10</b>	<p>Chairperson: <b>Sumiaty Ambran</b></p> <p>(14:40-15:10) <b>Sumiaty Ambran</b> Universiti Teknologi Malaysia, Malaysia</p> <p><b>(Invited Speaker)</b></p> <p>“Graphene-Coated Tip Fiber Optic Chemical Sensor for Nitrate Sensing Application”</p>	<p>Chairperson: <b>Liudmyla Karachevtseva</b></p> <p>(14:40-15:10) <b>Liudmyla Karachevtseva</b> V.Lashkaryov Institute of Semiconductor Physics, Ukraine</p> <p><b>(Invited Speaker)</b></p> <p>“Electro-optical effects in 2D photonic macroporous silicon structures with nanocoatings”</p>	<p>Chairperson: <b>Takahiro Kodama</b></p> <p>(14:40-15:10) <b>Takahiro Kodama</b> University of Yamanashi, Japan</p> <p><b>(Invited speaker)</b></p> <p>“Advanced optical modulation format conversion for short-reach and long-haul network integration”</p>	<p>Chairperson: <b>Carlos Doñate-Buendía</b></p> <p>(14:40-15:10) <b>Carlos Doñate-Buendía</b> Universitat Jaume, Spain</p> <p><b>(Invited speaker)</b></p> <p>“Laser Generation in Continuous Flow of Photoluminescent Carbon Quantum Dots for Fluorescence Cell Imaging”</p>
	<p>(15:10-15:40) <b>Daniel Passos</b> University of Porto, Portugal</p> <p><b>(Invited Speaker)</b></p> <p>“Nonlinear optical conductivities in the independent electron approximation”</p>	<p>(15:10-15:40) <b>Lakshmi Malleswari Barooru</b> Sridevi women's engineering, India</p> <p><b>(Invited Speaker)</b></p> <p>“Performance of Quantum key distribution”</p>	<p>(15:10-15:40) <b>Erik Böttcher</b> NYFORS, Sweden</p> <p><b>(Invited speaker)</b></p> <p>“Advanced optical component manufacturing using CO2 Laser Light”</p>	<p>(15:10-15:30) <b>Hüseyin Özevren</b> Dicle University, Turkey</p> <p><b>(Id 012)</b></p> <p>“Potentilla fulgens Protects Rat Retinal Tissue Against Trauma- Induced Oxidative Stress”</p>
	<b>15:40-16:00 COFFEE BREAK</b>			
<b>PARALLEL SESSIONS: 16:00-17:30 WEDNESDAY, OCTOBER 10</b>	<p>Chairperson: <b>Mykola Kartel</b></p> <p>(16:00-16:30) <b>Mykola Kartel</b> O.Chuiko Institute of Surface Chemistry, Ukraine</p> <p><b>(Invited Speaker)</b></p> <p>“New functionalization of 2D photonic macroporous silicon structures under the high-pressure oxidation”</p>	<p>Chairperson: <b>Muhammad Tabish Niaz</b></p> <p>(16:00-16:30) <b>Muhammad Tabish Niaz</b> Sejong University, Korea, Rep. of</p> <p><b>(Invited Speaker)</b></p> <p>“Visible Light Communication in Industry 4.0”</p>	<p>Chairperson: <b>Xuelun Wang</b></p> <p>(16:00-16:30) <b>Xuelun Wang</b> National Institute of Advanced Industrial Science and Technology, Japan</p> <p><b>(Invited Speaker)</b></p> <p>“GaN directional micro LEDs based on evanescent wave coupling”</p>	<p>Chairperson: <b>Jong-Ki Kim</b></p> <p>(16:00-16:30) <b>Jong-Ki Kim</b> Catholic University of Daegu, Korea, Rep. of</p> <p><b>(Invited Speaker)</b></p> <p>Type I ROS-mediated therapeutic enhancement in concurrent Carboplatin Photodynamic therapy</p>
	<p>(16:30-17:00) <b>Soumyajit Poddar</b> Indian Institute of Information Technology Guwahati, India</p> <p><b>(Invited Speaker)</b></p> <p>“Silicon Photonic Interconnect for High Performance Multicore Processors and Hardware Accelerators”</p>	<p>(16:30-17:00) <b>Hugo Aguas</b> i3N/CENIMAT, Portugal</p> <p><b>(Invited Speaker)</b></p> <p>“Application of Ag nanoparticles grown by dewetting process to SERS and solar cells”</p>	<p>(16:30-17:00) <b>Vladimir Belotelov</b> Lomonosov Moscow State University Russian Federation</p> <p><b>(Invited speaker)</b></p> <p>“Ultra-fast magnetism in nanophotonic structures”</p>	<p>(16:30-17:00) <b>Seong Soo Choi</b> SunMoon Unviersity Korea, Republic Of</p> <p><b>(Invited speaker)</b></p> <p>“Towards the Optical Nanopore for single molecule analysis”</p>
	<p>(17:00-17:30) <b>Somayeh Panahibakhsh</b> Photonics and Quantum Technologies Research School, Iran</p> <p><b>(Invited Speaker)</b></p> <p>“Fundamentals and applications of laser conditioning”</p>	<p>(17:00-17:30) <b>Jovan Nedeljkovic</b> Vinča Institute of Nuclear Sciences, Serbia</p> <p><b>(Invited Speaker)</b></p> <p>“Visible Light Responsive Wide Band- Gap Oxides: Potential Application in Photocatalysis”</p>	<p>(17:00-17:30) <b>Vladimir Gritsenko</b> Institute of Semiconductor Physics Russian Federation</p> <p><b>(Invited Speaker)</b></p> <p>“The nature of defects and traps in high-k dielectrics with photoluminescence experiments”</p>	<p>(17:00-17:30) <b>Alexey Feofanov</b> Lomonosov Moscow State University, Russian Federation</p> <p><b>(Invited speaker)</b></p> <p>“Structural rearrangements in mononucleosomes induced by potassium and sodium ions: single particle FRET analysis”</p>
<b>17:30-17:40 COFFEE BREAK</b>				

<b>POSTER SESSION</b> 17:30-18:30 <b>WEDNESDAY</b>	<b>Aspendos IV (Poster Session Area)</b> Chairperson: <b>Ersin Kayahan</b>  <b>POSTER SESSION</b> <b>(INTERPHOTONICS 2018 –INTERCOLM 2018)</b>
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<b>PROGRAM</b> <b>THURSDAY, OCTOBER 11, 2018</b>				
<b>PARALLEL SESSIONS 09:30-12:30</b> <b>THURSDAY, OCTOBER 11</b>	<b>INTERPHOTONICS</b>			<b>INTERCOLM/ INTERPHOTONICS</b>
	<b>Aspendos II</b>	<b>Aspendos III</b>	<b>Aspendos IV</b>	<b>Aspendos V</b>
	Chairperson: <b>Katsuaki Konishi</b>  (09:30-10:00) <b>Katsuaki Konishi</b> Hokkaido University, Japan  <b>(Invited Speaker)</b>  "Unprecedented Effects of Aggregation on the Photoluminescence of Small Gold Clusters"  (10:00-10:30) <b>Mehmet Alp Ilgaz* and Bostjan Batagelj</b> University of Ljubljana, Slovenia <b>(Invited speaker)</b>  "Application of an Opto-Electronic Oscillator in Radio Access Networks"  (10:30-11:00) <b>Gerhard Liedl</b> TU Wien, Austria  <b>(Invited speaker)</b>  "Laser assisted joining of aluminum-copper"  (11:00-11:30) <b>Sawsan Abdul-Majid</b> EECS Faculty of Engineering, University of Ottawa, Canada	Chairperson: <b>Lucia Labrador-Paez</b>  (09:30-10:00) <b>Lucia Labrador-Paez</b> Universidad Autónoma de Madrid, Spain  <b>(Invited Speaker)</b>  "Experimental limitations of rare-earth-doped luminescent nanosensors"  (10:00-10:30) <b>Anna Jusza</b> Warsaw University of Technology, Poland <b>(Invited speaker)</b>  "Photonic integrated circuits for application in telecommunication and sensing networks"  (10:30-11:00) <b>Toygar Akgün* and Metin Aktaş</b> ASELSAN, Turkey  <b>(Invited Speaker)</b>  "Threat Detection and Classification with Phase-OTDR based Distributed Acoustic Sensing Systems"  (11:00-11:30) <b>Lyudmila Kokhanchik</b> Institute of Microelectronics Technology and High Purity Materials RAS, Russian Federation	Chairperson: <b>Alois Lugstein</b>  (09:30-10:00) <b>Alois Lugstein</b> Technical University Vienna, Austria  <b>(Invited speaker)</b>  "Monolithic metal-semiconductor nanowire heterostructures for electrical and optical application"  (10:00-10:30) <b>Sinem Coleri Ergen</b> Koc University, Turkey <b>(Invited Speaker)</b>  "Visible Light Communication based Vehicular Communications"  (10:30-11:00) <b>Onur Tokel</b> Bilkent University, Turkey  <b>(Invited speaker)</b>  "In-chip photonics and microstructures enabled by 3D nonlinear laser lithography"  (11:00-11:30) <b>Xingjun Wang</b> Chinese Academy of Sciences, China	Chairperson: <b>Jiming Hu</b>  (09:30-10:00) <b>Jiming Hu</b> Wuhan University, China  <b>(Invited Speaker)</b>  "Medical application of SERS cellular imaging"  (10:00-10:30) <b>Nadezhda Kudryasheva</b> Siberian Federal University, Russian Federation <b>(Invited Speaker)</b>  "Luminescence bioassays of different complexity: bacterial cells, enzyme reactions, and fluorescent proteins"  (10:30-11:00) <b>Kazuko Fujii</b> National Institute for Materials Science, Japan  <b>(Invited Speaker)</b>  "Preparation of novel solid-state materials immobilizing dyes and their photochemical behavior"  (11:00-11:30) <b>Raja Kamarulzaman Ibrahim</b> Universiti Teknologi Malaysia, Malaysia

	<p><b>(Invited Speaker)</b> "Photonics integrated interferometer circuit based on silicon-on-insulator"</p> <p>(11:30-12:00) <b>Ishak Musa</b> Palestine Technical University, Palestinian Territory</p> <p><b>(Invited speaker)</b> "Synthesis, characterization and optical properties of ZnO nanostructures: from nanoparticles to nanorods"</p>	<p><b>(Invited speaker)</b> "Periodic domain structures recorded by an electron beam for the nonlinear conversion of laser radiation in optical waveguides on nonpolar cuts of LiNbO3"</p>	<p><b>(Invited speaker)</b> "Effect of Bismuth-induced control Phase of GaAs Nanowires on Optical Polarization"</p> <p>(11:30-12:00) <b>Vera Kuznetsova</b> Trinity College Dublin</p> <p><b>(Invited speaker)</b> "Chiral Quantum Dots"</p> <p>(12:00-12:30) <b>R. VENKATESH BABU</b> Bharath University, India</p> <p><b>(Invited Speaker)</b> "Photoluminescent Properties of Materials"</p>	<p><b>(Invited speaker)</b> "PLASMA ACTUATOR STABILITY MONITORING USING FIBER BRAGG GRATING SENSOR"</p> <p>(11:30-12:00) <b>Jie Chen</b> Indiana University-Purdue University Indianapolis, United States</p> <p><b>(Invited speaker)</b> "Low-energy Photobiomodulation Therapy in Dentistry"</p> <p>(12:00-12:30) <b>Hatice Selen Kanar</b> Fatih Sultan Mehmet Training and Research Hospital, Turkey</p> <p><b>(Invited Speaker)</b> Subthreshold Laser Treatment in Ophthalmology: A New Era</p>
12:30-13:30	<b>LUNCH</b>			
13:30-18:00 THURSDAY	<p><b>SOCIAL PROGRAM-3</b> <b>ANTALYA OLD TOWN AND KURSUNLU WATERFALL</b> <i>(Gathering at Congress registration desk)</i></p>			

PROGRAM				
FRIDAY, OCTOBER 12, 2018				
PARALLEL SESSIONS 09:30-12:00 FRIDAY, OCTOBER 12	INTERPHOTONICS			INTERCOLM/ INTERPHOTONICS
	Aspendos II	Aspendos III	Aspendos IV	Aspendos V
	Chairperson: <b>Shiro Ryu</b>	Chairperson: <b>Zoltan Tibai</b>	Chairperson: <b>Sattar Al-Kabi</b>	
	<p>(09:30-10:00) <b>Shiro Ryu</b> Meiji University, Japan</p> <p><b>(Invited speaker)</b> "Application of Angle Diversity Technique to Optical Wireless Communication Systems for Smartphones"</p> <p>(10:00-10:30) <b>Gyorgy Toth</b> University of Pecs Hungary</p> <p><b>(Invited speaker)</b> "Generation of single-cycle CEP-stable attosecond pulses based on radiation of ultrashort"</p>	<p>(09:30-10:00) <b>Zoltan Tibai</b> University of Pecs, Hungary</p> <p><b>(Invited speaker)</b> "Ultrathin electron layer generation based on laser-driven energy modulation"</p> <p>(10:00-10:30) <b>Petro Demianenko</b> National Technical University of Ukraine, Ukraine</p> <p><b>(Invited Speaker)</b> "PRECISION MEASUREMENTS OF PHYSICAL VALUES BASED ON FIBER-OPTICAL SENSORS WITH IMPULSIVE"</p>	<p>(09:30-10:00) <b>Sattar Al-Kabi</b> University of Wasit, Iraq</p> <p><b>(Invited Speaker)</b> "Investigation of the optical properties of GeSn QWs for laser applications"</p> <p>(10:00-10:20) <b>Ifa Jlassi</b> Faculty of Sciences of Tunis, Tunisia</p> <p><b>(ID 46)</b> "Optical response and luminescence properties of Sm<sup>3+</sup>-doped sodium-fluoro-phosphate glasses for reddish-</p>	

	<p>electronbunches”</p> <p>(10:30-11:00) <b>Vladimir Kochereshko and Lyubov Kotova*</b> Ioffe Institute, Russian Federation <b>(Invited Speaker)</b></p> <p>“Effects of spatial dispersion in symmetric and asymmetric semiconductor quantum wells”</p> <p>(11:00-11:30) <b>Ahmed Nassim Mahammedi</b> Ecole Normale Supérieure de Laghouat, Algeria <b>(Invited speaker)</b></p> <p>“Direct bandgap silicon clathrate for future solar cells: exploration and bandgap engineering through first-principles”</p> <p>(11:30-12:00) <b>Martin Kyselak</b> University of Defence, Czech Republic <b>(Invited speaker)</b></p> <p>“The Two Polarization Planes of Light and its use at the Fiber Optic Sensors”</p>	<p>MODULATION OF OPTICAL STREAM INTENSITY”</p> <p>(10:30-11:00) <b>Angelo Angelini</b> Politecnico di Torino, Italy <b>(Invited speaker)</b></p> <p>“ Bloch Surface Waves on one dimensional photonic crystals: fundamentals and applications”</p> <p>(11:00-11:30) <b>Jyotsna Panwar</b> Delhi Technological University India <b>(Invited speaker)</b></p> <p>“Study of high power tunable radiation using free electron laser”</p> <p>(11:30-12:00) <b>Muhammed Nur ÖGÜN</b> Abant İzzet Baysal Üniversitesi, Turkey <b>(Invited speaker)</b></p> <p>Use of Optical Coherence Tomography in the Diagnosis and Prognosis of Neurodegenerative Diseases</p>	<p>orange lighting applications”</p> <p>(10:20-10:40) <b>Horacio Soto</b> CICESE, Mexico <b>(ID-068)</b></p> <p>“Ultrafast All-Optical Feed-Forward Delay Line Buffer Based on Two-Photon Absorption and the Quadratic Stark Effect in an Unbiased SOA”</p> <p>(10:40-11:00) <b>Uraib Sharaha</b> Ben Gurion University, Israel <b>(ID 103)</b></p> <p>“Detection of extended spectrum <math>\beta</math> lactamases enzymes producing bacteria Escherichia coli using infrared microscopy in tandem with machine learning algorithms”</p> <p>(11:00-11:30) <b>Malgorzata Sopicka-Lizer</b> Silesian University of Technology Poland <b>(Invited Speaker)</b></p> <p>“Eu<sup>2+</sup> activated oxonitridosilicate phosphors for highly efficient white diodes via the modified solid state reaction method”</p>	
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<p><b>PROGRAM</b></p> <p><b>FRIDAY, OCTOBER 12, 2018</b></p>	
<p>12:00</p> <p><b>FRIDAY, OCTOBER 12</b></p>	<p><b>Hotel Check Out</b></p>