



# Scientific Program

2<sup>nd</sup> International Conference on

# Semiconductors, Optoelectronics and Nanostructures

August 19-20, 2019 | Barcelona, Spain



**Scientific Federation**  
Panjagutta, Hyderabad, Telangana-500082, India

## Day 1 August 19, 2019

### Ashton 3

- 08:00-09:00 Registrations  
09:00-09:15 Introduction & Opening Words

### Plenary Forum

- 09:15-10:00 **Title: Design, Analyses, and Optimization of Silicon Photonic Devices**  
Azizur Rahman, University of London, UK
- 10:00-10:45 **Title: Pressure Changes Electronic Structures and Luminescence Characteristics of Phosphor Materials**  
Setsuhisa Tanabe, Kyoto University, Japan

### Keynote Forum

- 10:45-11:15 **Title: Molecularly Imprinted Polymers based on Conductive Polymers: Useful Materials for Chemical Sensing**  
Marc Debliquy, University of Mons, Belgium

Refreshments Break 11:15-11:30 @ Foyer

- 11:30-12:00 **Title: Diamond SAW Resonator**  
Satoshi Fujii, N.I.T, Okinawa College, Japan
- 12:00-12:30 **Title: Targeted Imaging for Cancer Cells and Selective Optosensing of Biochemical Molecules using Novel Nanomaterials**  
Yong-Il Lee, Changwon National University, Republic of Korea

### Invited Talks

- Sessions** Wide Bandgap Semiconductor | Condensed Matter Theory | Nanocomposites and Multifunctional Materials | Nanodevices & Nanosensors | Nitride Semiconductors
- Session Chair** Alejandro Perez-Rodriguez, University of Barcelona, Spain
- Session Co-chair** Atsuko Sekiguchi, National Institute of Advanced Industrial Science and Technology, Japan

- 12:30-12:55 **Title: Influence of He-Cd laser Irradiation in Water on the State of CdS Crystal Surfaces**  
Rustem A. Bisengaliev, Kalmyk State University, Russia

12:55-13:00 **Group Photo**  
Lunch Break 13:00-14:00 @ Restaurant

- 14:00-14:25 **Title: Using the Unique Magneto-Optical Properties of Spin Color Centers in Silicon Carbide in Spintronics, Sensorics and Quantum Processing**  
Pavel G. Baranov, Ioffe Institute, Russia
- 14:25-14:50 **Title: Theoretical Study on Anisotropic Magnetoresistance Effects for Various Ferromagnets**  
Satoshi Kokado, Shizuoka University, Japan
- 14:50-15:15 **Title: Highly Conductive, Lightweight and Thermally Stable Cu/CNT Composites Toward Future Wiring and Interconnect**  
Atsuko Sekiguchi, National Institute of Advanced Industrial Science and Technology, Japan
- 15:15-15:40 **Title: Electric and Dielectric of Materials Studies by Impedance Spectroscopy**  
Fathy Salman, Banha University, Egypt
- 15:40-16:05 **Title: Methods Increasing Sensitivities of SOI FET-Sensors**  
Olga V. Naumova, Siberian Branch of Russian Academy of Science, Russia

Refreshments Break 16:05-16:20 @ Foyer

- 16:20-16:45 **Title: Advanced Raman Scattering Methodologies for the Non-Destructive Assessment of Electronic Defects in Chalcogenide Compound Semiconductors**  
Alejandro Perez-Rodriguez, University of Barcelona, Spain
- 16:45-17:10 **Title: Topological Insulator in InGaN-based Quantum Wells**  
Slawomir P. Lepkowski, Polish Academy of Sciences, Poland

**Closing the Conference for the Day 1**

## Day 2 August 20, 2019

### Ashton 3

#### Plenary Forum

- 10:00-10:45**    **Title: Photonic Data Processing Nano-Circuitry**  
Nisan Ozana, Bar-Ilan University, Israel  
Zeev Zalevsky, Bar-Ilan University, Israel

#### Keynote Forum

- 10:45-11:15**    **Title: Nanostructure for Near Infrared Luminescence for Biomedical Application**  
Kohei Soga, Tokyo University of Science, Japan

Refreshments Break 11:15-11:30 @ Foyer

- 11:30-12:00**    **Title: Morphology-Dependent Optical Properties of Gold Particles**  
Bin Chen, Xian Jiaotong University, China

#### Invited Talks

#### Sessions

#### Nanophotonics and Optics | Nanotechnology for Energy and the Environment | Biomedical Photonics

#### Session Chair

**Olga V.Naumova, Siberian Branch of Russian Academy of Science, Russia**

- 12:00-12:25**    **Title: Characterization of Thin Films Near Interfaces**  
Olga V. Naumova, Siberian Branch of Russian Academy of Science, Russia
- 12:25-12:50**    **Title: Design Semiconductor Nanomaterials for Solar Fuel**  
Asif Ali Tahir, University of Exeter, United Kingdom

**12:50-13:00**

Group Photo

Lunch Break 13:00-14:00 @ Restaurant

- 14:00-14:25**    **Title: Study of Vitreous Part of the System  $x\text{Al}_2\text{O}_3\text{-(40-x)}\text{CaO}$  - $10\text{Na}_2\text{O}$  - $50\text{P}_2\text{O}_5$  by Chemical Durability, Infrared Spectroscopy and X-Ray Diffraction**  
Zineb Chabbou, Hassan II Ain Chock, Morocco
- 14:25-14:50**    **Title: The Advanced Analytical Approach to Selection the Optimum Structure of Avalanche Heterophotodiodes based on Direct Bandgap Semiconductors**  
Artem K. Ilyasov, Russian Academy of Science, Russia

Refreshments Break 16:05-16:20 @ Foyer

#### Poster Presentations

- P-001**    **Title: Green Synthesis of Silver Nanoparticles Using Vaccinium Myrtillus L. Leaves Extract and their Effect on Antioxidative Enzymes on Environmental Microorganisms**  
Lacramioara Oprica, Alexandru Ioan Cuza University, Romania
- P-002**    **Title: Modulation of Some Functional Biomolecules Activities in Crop Plant Cells After Graphene Oxide Application**  
Gabriela Vochita, NIRDDBS, Romania
- P-003**    **Title: The Non-Linear Current-Dependent Low Frequency Noise in InGaAs Two Dimensional Electron Gas Hall Sensors**  
Chii-Bin Wu, Chung Yuan Christian University, Taiwan
- P-004**    **Title: Optical Properties of the Polystyrene/Graphene Oxide Composites**  
Malvina-Simona Stroe, Bucharest University, Romania
- P-005**    **Title: Microbial Battery by using Au Nanoparticle for High Efficiency Organic Semiconductor Devices**  
S. An, Dankook University, Korea  
Young Song, Dankook University, Korea

#### End of the Conference

**Bookmark Your Dates**

**3<sup>rd</sup> International Conference on**

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**August 20-21, 2020 | Venice, Italy**

