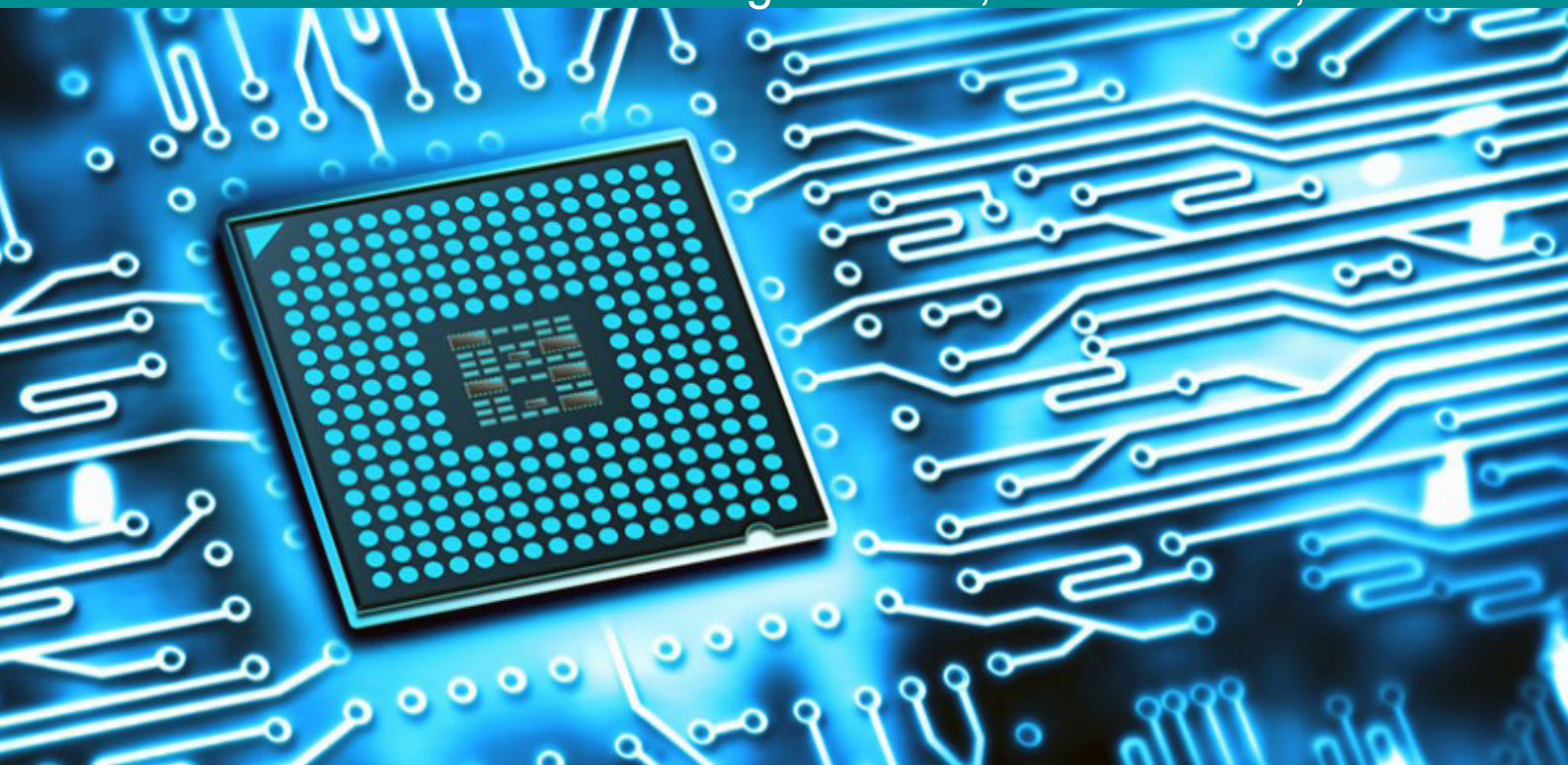


# Final Scientific Program

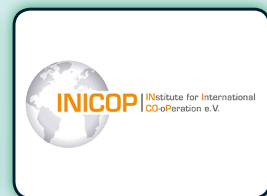
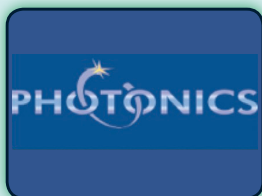
International Conference on

## **Semiconductors, Optoelectronics and Nanostructures**

August 20-21, 2018 at Paris, France



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## Day 1 August 20, 2018

Loft 2

08:00-09:00 Registrations

09:00-09:10 Introduction

09:10-09:30 Opening Ceremony

### Plenary Forum

09:30-10:20 **Title: On-Fiber Electro-Optic Devices for High Speed Telecom Networks up to 100Gbps and More**

Mahmoud A. El-Sherif, Photonics Laboratories, Inc., USA

10:20-11:10 **Title: Resonant Tunnelling (RTD) and Asymmetric Spacer Tunnel Layer (ASPAT) Diodes Detectors for High-Frequency Applications**

Mohamed Missous, University of Manchester, UK

### 11:10-11:25 Networking & Refreshments Break @ Foyer

### Keynote Forum

11:25-12:05 **Title: New Generation of Compact Laser Sources for Imaging, Diagnostics and Treatment in Biomedicine**

Edik U. Rafailov, Aston University, UK

12:05-12:45 **Title: Development of Long Persistent Near-infrared Phosphors for the Second and Third bio-imaging Windows**

Setsumi Tanabe, Kyoto University, Japan

Panel Discussion 12:45-12:55

Group Photo 12:55-13:00

13:00-14:00 Lunch Break @ Restaurant

### Invited Talks

**Session Chair: Mineo Hiramatsu**, Meijo University, Japan

**Session Co-Chair: Mohamed Benyoucef**, University of Kassel, Germany

14:00-14:30 **Title: Plasma Processing for Graphene-based Materials**

Mineo Hiramatsu, Meijo University, Japan

14:30-15:00 **Title: InP-based Single Quantum Dots and Microcavity for Telecom Wavelengths**

Mohamed Benyoucef, University of Kassel, Germany

15:00-15:30 **Title: High Resolution Second Harmonic Generation with Femtosecond Laser Pulses on Excitons in Semiconductor Materials**

Johannes Mund, Technical University of Dortmund, Germany

15:30-16:00 **Title: Towards Photo-Rechargeable Lithium-Ion Batteries**

Olivier Nguyen, Sorbonne University and College, France

### 16:00-16:15 Networking & Refreshments Break @ Foyer

16:15-16:45 **Title: Transport and Superconducting Proximity Effect in Topological Insulators (Narrow Gap Semiconductors with "Twist")**

Ewelina Hankiewicz, Wurzburg University, Germany

16:45-17:15 **Title: A Moving Conceptual Revolution: Two Liquid Phases in Glass-Forming Melts Instead of One!**

Robert F. Tournier, CNRS, France

17:15-17:45 **Title: The Surface Potentials Formation and its Influence on the Silicon Microelectronics Device Characteristics**

Ravil Yafarov, Russian Academy of Sciences Saratov, Russia

17:45-18:15 **Title: Thin-film Vapor-liquid-solid Growth of InP for III-V Photovoltaics**

Christopher G. Bailey, Old Dominion University, USA

18:15-18:45 **Title: New Method of Control of the Duration of Output Pulses in Solid-state Lasers**

Valery I. Donin, Institute of Automation and Electrometry, Russia

### 19:00-20:00 Cocktails @ Cosy Bar

## Day 2 August 21, 2018

Loft 2

### Plenary Session

09:00-09:50 **Title: Radiation Processes in Solid-State Nanostructures for Nanoelectronics and Radiophotonics**

Nikolay N. Gerasimenko, National Research University of Electronic Technology, Russia

<b>Session 1</b>		<b>Invited Talks</b>
<b>Session Chair: Masaharu Oshima, University of Tokyo, Japan</b>		
<b>Session Co-Chair: Satoshi Fujii, Okinawa College, Japan</b>		
09:50-10:20	<b>Title: Local Electronic Structures in FETs Revealed by Scanning Photoelectron Microscopy</b> Masaharu Oshima, University of Tokyo, Japan	
10:20-10:50	<b>Title: Diamond SAW Resonators Fabricated by Minimal-fab</b> Satoshi Fujii, Okinawa College, Japan	
<b>10:50-11:05 Networking &amp; Refreshments Break @ Foyer</b>		
11:05-11:35	<b>Title: Optically Coupled Small Signal Generation for the Admittance Spectroscopy of Photovoltaic Modules</b> Viktor Schlosser, University of Vienna, Austria	
11:35-12:05	<b>Title: 28 nm FD-SOI CMOS Technology Towards Cryogenic Temperature and Preliminary Silicon Results for Quantum Applications</b> Philippe Galy, STmicroelectronics, France	
12:05-12:35	<b>Title: Influence of the Inhomogeneity on the Properties of the Metal-Conductor Contact</b> Askerov Shahlar Gachay oglu, Baku State University, Azerbaijan	
12:35-13:05	<b>Title: The Use of Photonic Crystals to Control the Electromagnetic Wave Propagation</b> Evrin Colak, Ankara University, Turkey	
<b>13:05-14:00 Lunch Break @ Restaurant</b>		
<b>Featured Talks</b>		
<b>Session 2: Nanostructures; Optoelectronics; Semiconductors</b>		
<b>Session Chair: Rosaria A. Puglisi, CNR-IMM, Italy</b>		
<b>Session Co-Chair: Kohei Soga, Tokyo University of Science, Japan</b>		
14:00-14:20	<b>Title: Silicon Nanowires Functionalized with Organic Molecules</b> Rosaria A. Puglisi, CNR-IMM, Italy	
14:20-14:40	<b>Title: Application of Rare-Earth Doped Ceramic Nanomaterials for OTN-NIR Biomedical Photonics</b> Kohei Soga, Tokyo University of Science, Japan	
14:40-15:00	<b>Title: Suspended Silicon Devices for Long-wave Infrared Wavelengths</b> Jordi Soler Penades, University of Southampton, United Kingdom	
15:00-15:20	<b>Title: Polymeric Transparent Electrodes Obtained by In-solution Doping of PEDOT:PSS</b> Valentina Lombardo, University of Catania, Italy	
15:20-15:40	<b>Title: Molecular Doping for Semiconductors: Role of the Surface Treatments on the Morphological and Electrical Properties</b> Rosaria A. Puglisi, CNR-IMM, Italy	
15:40-16:00	<b>Title: Self-assembled Monolayers of Molecular Precursors for Silicon Doping</b> Daniele Spucches, University of Messina, Italy	
<b>16:00-16:15 Networking &amp; Refreshments Break @ Foyer</b>		
16:15-16:35	<b>Title: Carbon Nanotube Based Electronic and Optoelectronic Devices</b> Lian-Mao Peng, Peking University, China	
16:35-16:55	<b>Title: The Nonlinear Bipolar and Unipolar Switching Behavior of a Memristor</b> Faten Rziga Ouaja, Monastir University of Monastir, Tunisia	
16:55-17:15	<b>Title: Elaboration and Grafting of Gold Nanoparticles Functionalized for a Better Sensibility of the Biosensors of Cancer with Multiple Detection</b> Ali H. Adabo-kako, The University of Franche-Comté, France	
17:15-17:35	<b>Title: Optoelectronic Study of the System TiO<sub>2</sub>: Cr/Si(p) by the Laser Beem Induced Current (LBIC)</b> Kasmi Mounir, Center for Research and Technologies of Energy, Tunisia	
<b>Poster Presentations on Day 2 August 21, 2018</b>		
P-001	<b>Title: Enhanced Growth of Gallium Oxide Nanowires for UV Detection</b> Badriyah Alhalaili, University of California, USA	
P-002	<b>Title: Phenomena Accompanying the Field Emission of Electrons from Carbon Nanotubes</b> Sergey Bulyarskiy, Institute of Nanotechnology of Microelectronics, Russia	
P-003	<b>Title: The Surface Potentials Formation and its Influence on the Silicon Microelectronics Device Characteristics</b> Valeri Timoshenkov, National Research University of Electronic Technology, Russia	
P-004	<b>Title: Thermodynamical Conditions for the Synthesis of 5 nm Sized Silicon Nanowires by Vapor-liquid-solid Growth</b> Daniele Spucches, University of Messina, Italy	

P-005 **Title: High-Performance All-optical Regeneration Based on Self-similar Spectral Broadening for High Bit Rates OTDM System Applications**

Leila. Graini, Badji Mokhtar University, Algeria

P-006

**Title: Effects of In Doping on the Optoelectronic Properties of CdSe Films for Solar Cells**

Suthan Kissinger. N. J, Jubail University College, Saudi Arabia

Certificate Felicitacion @ Closing Ceremony

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

# Semiconductors, Optoelectronics and Nanostructures

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