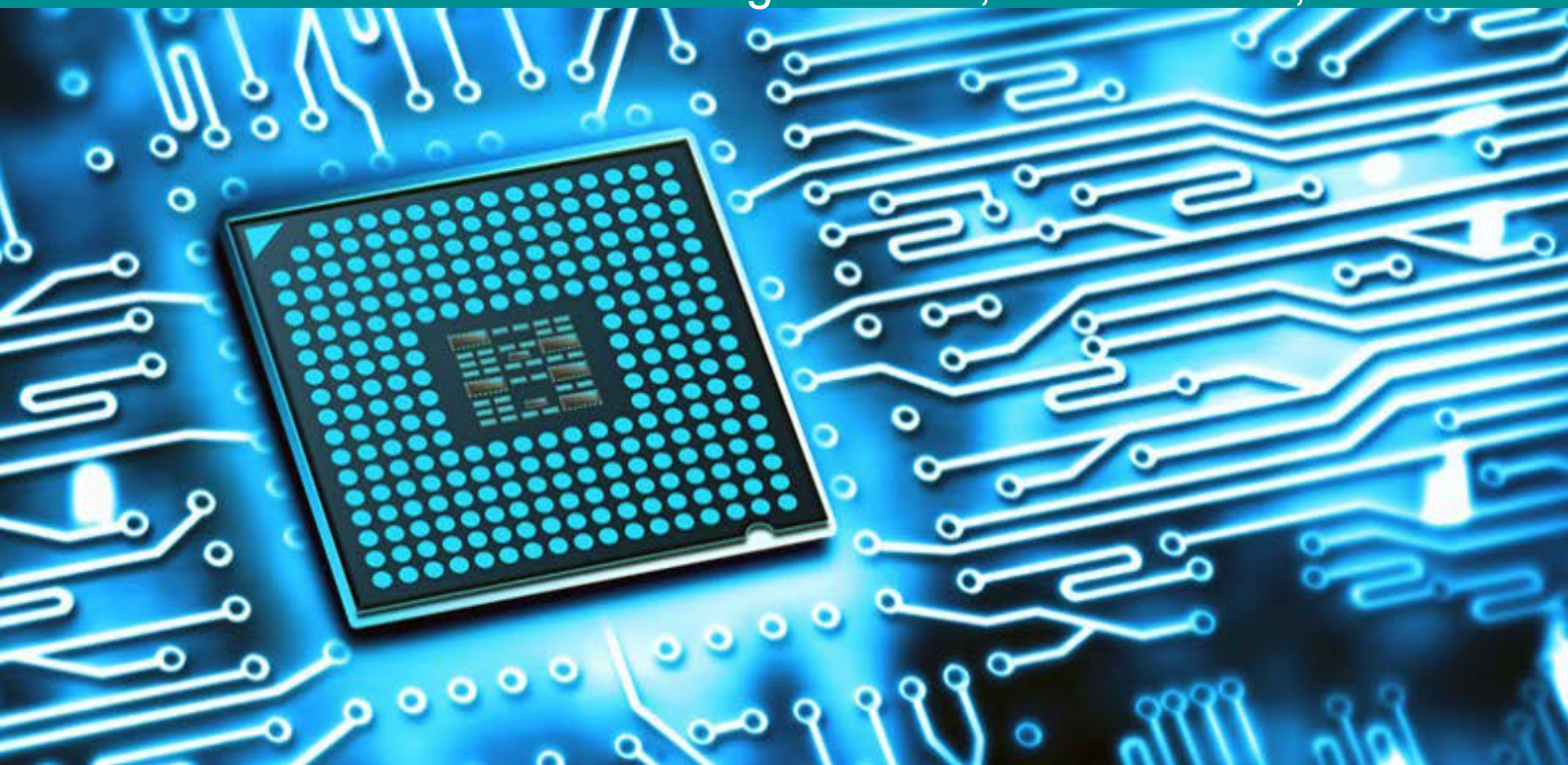


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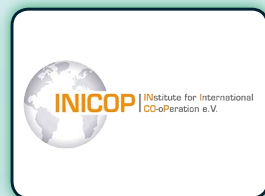
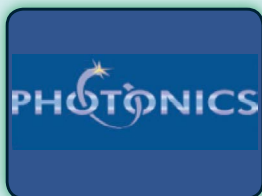
International Conference on

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

Session 1		Invited Talks
Session Chair: Masaharu Oshima, University of Tokyo, Japan		
Session Co-Chair: Satoshi Fujii, Okinawa College, Japan		
09:50-10:20	Title: Local Electronic Structures in FETs Revealed by Scanning Photoelectron Microscopy	Masaharu Oshima, University of Tokyo, Japan
10:20-10:50	Title: Diamond SAW Resonators Fabricated by Minimal-fab	Satoshi Fujii, Okinawa College, Japan
10:50-11:05 Networking & Refreshments Break @ Foyer		
11:05-11:35	Title: Optically Coupled Small Signal Generation for the Admittance Spectroscopy of Photovoltaic Modules	Viktor Schlosser, University of Vienna, Austria
11:35-12:05	Title: 28 nm FD-SOI CMOS Technology Towards Cryogenic Temperature and Preliminary Silicon Results for Quantum Applications	Philippe Galy, STmicroelectronics, France
12:05-12:35	Title: Influence of the Inhomogeneity on the Properties of the Metal-Conductor Contact	Askerov Shahlar Gachay oglu, Baku State University, Azerbaijan
12:35-13:05	Title: The Use of Photonic Crystals to Control the Electromagnetic Wave Propagation	Evrin Colak, Ankara University, Turkey
13:05-14:00 Lunch Break @ Restaurant		
14:00-14:30	Title: Silicon Nanowires functionalized with Organic Molecules	Rosaria A. Puglisi, CNR-IMM, Italy
		Featured Talks
Session 2: Nanostructures; Optoelectronics; Semiconductors		
Session Chair: Rosaria A. Puglisi, CNR-IMM, Italy		
Session Co-Chair: Kohei Soga Tokyo University of Science, Japan		
14:30-14:50	Title: Application of Rare-Earth Doped Ceramic Nanomaterials for OTN-NIR Biomedical Photonics	Kohei Soga, Tokyo University of Science, Japan
14:50-15:10	Title: Suspended Silicon Devices for Long-wave Infrared Wavelengths	Jordi Soler Penades, University of Southampton, United Kingdom
15:10-15:30	Title: Polymeric Transparent Electrodes obtained by in-solution Doping of PEDOT:PSS	Valentina Lombardo, University of Catania, Italy
15:30-15:50	Title: Molecular Doping for semiconductors: Role of the Surface Treatments on the Morphological and Electrical Properties	Rosaria A. Puglisi, CNR-IMM, Italy
15:50-16:10	Title: Self-assembled Monolayers of Molecular Precursors for Silicon Doping	Daniele Spucches, Università degli Studi di Messina, Italy
16:10-16:25 Networking & Refreshments Break @ Foyer		
16:25-16:45	Title: Carbon Nanotube based Electronic and Optoelectronic Devices	Lian-Mao Peng, Peking University, China
16:45-17:05	Title: The Nonlinear Bipolar and Unipolar Switching Behavior of a Memristor	Faten Rziga Ouaja, Monastir University of Monastir, Tunisia
17:05-17:25	Title: Elaboration and Grafting of Gold Nanoparticles functionalized for a Better Sensibility of the Biosensors of Cancer with Multiple Detection	Ali H. Adabo-kako, Université de Franche-Comté, France
17:25-17:45	Title: Optoelectronic Study of the System TiO₂:Cr/Si(p) by the Laser Beam Induced Current (LBIC)	Kassmi Mounir, Center for Research and Technologies of Energy, Tunisia
Poster Presentations on Day 2 August 21, 2018		
P-001	Title: Enhanced Growth of Gallium Oxide Nanowires for UV Detection	Badriyah Alhalaili, University of California, USA
P-002	Title: Phenomena Accompanying the Field Emission of Electrons from Carbon Nanotubes	Sergey Bulyarskiy, Institute of Nanotechnology of Microelectronics, Russia
P-003	Title: The Surface Potentials Formation and its Influence on the Silicon Microelectronics Device Characteristics	Valeri Timoshenkov, National Research University of Electronic Technology, Russia

- P-004 **Title: Thermodynamical Conditions for the Synthesis of 5 nm Sized Silicon Nanowires by Vapor-liquid-solid Growth**
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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