

February 01-03, Porto (Portugal)

TENTATIVE PROGRAM (as of 26/01/2017)

K: Keynote lecture / I: Invited Lecture / O: Oral contribution



10:00 – 11:00: Registration

11:00 – 11:15: Opening Ceremony- Welcome and Introduction.

11:15 – 11:45: João Rocha (CICECO - University of Aveiro, Portugal) Nanomaterials for Temperature Sensing	K
11:45 – 12:00: Eulalia Pereira (REQUIMTE/UCiBIO, University of Porto, Portugal)	0
Synthesis of non-spherical metal nanoparticles for ultra-sensitive SERS 12:00 – 12:15: Cláudia Gomes Silva (Associate Laboratory LSRE-LCM, Portugal) Challenging fine chemical synthesis: a photocatalytic approach	0
12:15 – 12:30: Paul Grey (CENIMAT/I3N, Portugal) Design of tungsten oxide nanoparticles and application to electrochemical devices	0
12:30 – 12:45: Nagamalai Vasimalai (INL, Portugal)	0
Facile and room temperature synthesis of highly red emittive gold nanodots for the application in par chemosensor of toxic anions	_
12:45 – 14:15: Cocktail Lunch / Poster Session & Exhibition	
14:15 – 14:45: Helena F. Florindo (Universidade de Lisboa, Portugal)	ı
Multicomponent Nanoscale Systems for Immune Modulation against solid tumors	
14:45 – 15:15: Chris Whiteley (National Taiwan University Science & Technology, Taiwan) Interaction of human immune-deficiency virus (HIV) aspartic protease with spherical gold nanoparticles: Computer simulations	I
15:15 – 15:30: Bruno Silva (INL, Portugal)	0
Soft self-assembled nanostructured nanoparticles for gene and drug delivery	
15:30 – 15:45: Oihane Ibarrola Moreno (BioPraxis Research AIE, Spain)	0
NOCANTHER: GMP scale up for Drug Delivery nanosystems	
15:45 – 16:00: Teodora Miclaus (International Iberian Nanotechnology Laboratory (INL), Portugal) Protein coronas modulate silver nanoparticle sulphidation in vitro with impact on cell toxicity	0
16:00 – 16:15: Andrea Zille (Universidade do Minho, Portugal)	0
Size Effects on Antimicrobial Efficiency of DBD Plasma Coated Silver Nanoparticles on Textiles	_
16:15 – 16:30: Sara Fateixa (University of Aveiro, Portugal)	0
SERS imaging and chemisorption studies of methylene blue dyeing of antimicrobial textile fibers 16:30 – 16:45: Mónica Faria (CeFEMA and Universidade de Lisboa, Portugal)	0
Hemocompatible Membranes for Blood Oxygenators	O
16:45 – 17:00: Fernando Cruz (Universidade NOVA de Lisboa, Portugal)	0
Thermodynamics and kinetics of DNA in hydrophilic nanopores	
17:00– 17:30: Coffee Break / Poster Session & Exhibition	
17:30 – 18:00: André Chaves (University of Minho, Portugal)	1
Signatures of A, B, and C excitons in the optical properties of monolayer transition-metal dichalcogen	ides
18:00 – 18:15: Lluis Marsal (University Rovira i Virgili, Spain)	0

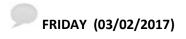
Engineered Nanoporous anodic alumina photonic structures 18:15 – 18:30: Joana Guerreiro (INL/Life Sciences, Portugal) Surface imprinting of complex matrices for plasmonic screening of global polyphenols and proteins interaction 18:30 – 18:45: Carola Kryschi (University of Erlangen, Germany) Gold-Nanorod Based SPASER	0
THURSDAY (02/02/2017)	
09:00 – 09:30: Pablo Alonso Gonzalez (Universidad de Oviedo, Spain) Nano-optics on flatland	К
09:30 – 10:00: Rainer Hillenbrand (CIC nanoGUNE, Spain) Nanoimaging and control of polaritons in 2D materials	K
10:00–10:15: Olívia Salomé Soares (Universidade do Porto, Portugal) Easy method to prepare highly active N-doped carbon nanotube catalysts for advanced oxidation produced oxidation	0
10:15 – 10:30: César González (University of Granada, Spain)	0
Molecular dissociation in a defected MoS2 monolayer	•
10:30 – 10:45: Marcus Worsley (Lawrence Livermore National Laboratory, USA) <i>Graphene-based aerogels for high performance sensing and catalytic applications</i>	0
10:45 – 11:15: Pedro M. Da Costa (KAUST, Saudi Arabia)	K
Rational design of graphene-based electrodes for energy storage systems	
11:15 – 11:45: Coffee Break / Poster Session & Exhibition	
11:45 – 12:45: Poster Session	
12:45 – 14:15. Lunch	
14:15 – 14:45: João Gaspar (INL, Portugal)	K
Hybrid Spintronic-MEMS Devices 14:45 – 15:15: Pedro Miguel Cândido Barquinha (Universidade Nova de Lisboa, Portugal)	
Sustainable, multifunctional and flexible electronics platform based on oxides	•
15:15 – 15:30: Jordi Llobet (Institut de Microelectrònica de Barcelona (IMB-CNM, CSIC), Spain)	0
Focused ion beam implantation as a tool for the fabrication of nanoelectromechanical devices 15:30 – 16:00: Fernando Langa (Universidad de Castilla-La Mancha, Spain)	ı
Highly Efficient Porphyrin-Based Bulk Heterojunction Organic Photovoltaics	•
16:00 – 16:30: Bruno Amorim (Instituto Superior Técnico - IST, Portugal)	I
Waveguide QED quantum computing with graphene nanoribbon plasmons 16:30 – 16:45: Wei Li (International Iberian Nanotechnology Laboratory, Portugal)	0
Monolithic Co3Se4 Nanowire Electrodes for Highly Efficient and Stable Oxygen Evolution and Overall Water Splitting	
16:45 – 17:30: Coffee Break / Poster Session & Exhibition	
17:30 – 18:00: Joaquin Fernández-Rossier (INL, Portugal)	K
Atomic scale electronics: from classical kilobytes to quantum bits	
18:00 – 18:30: Christian Joachim (CEMES-CNRS, France)	K

Κ

Super tunneling and molecular wires

18:30 – 19:00: Marek Kolmer (Jagiellonian University, Poland)

Electronic properties of atomic-scale wires from direct two-probe STM experiments



PARALLEL SESSION TRACK A (PhD Students)

09:00 – 09:15: Abderrazzaq Essaghraoui (ICETA/ UCIBIO/ REQUIMTE, University of Porto, Portugal) <i>Cyclosporine A-loaded solid lipid nanoparticles versus nanostructured lipid carriers for dermal application</i> 09:15 – 09:30: Ana Pinto (UCIBIO/REQUIMTE, Portugal) <i>Amoxicillin-loaded lipid nanoparticles: a novel approach to treat Helicobacter pylori infections</i> 09:30 – 09:45: Rita Rodrigues (University of Minho, Portugal) <i>Solid and Aqueous Magnetic Liposomes as Nanocarriers for a New Potential Drug Active Against Breas</i> 09:45 – 10:00: Rita S. Santos (Ghent University, Belgium) <i>Delivery of nucleic acid mimics as a novel treatment of infections - the Helicobacter pylori case</i> 10:00–10:15: Alexandra Plácido (REQUIMTE/LAQV, Portugal) <i>Acetylated Cashew Gum-Based Nanoparticles: Drug Delivery of the Alkaloid Epiisopiloturine</i> 10:15–10:30: Vânia Serrão Sousa (University of Algarve / CENSE, Portugal) <i>Application of TiO2 nanoparticles in conventional water treatment</i> 10:30 – 10:45: Andreia Cardoso (i3N/CENIMAT, CEMOP/UNINOVA, Portugal) <i>Direct growth of plasmonic nanorod forests on paper substrate for low-cost flexible 3D SERS platforms</i> 10:45 – 11:00: Jennifer Teixeira (I3N - Universidade de Aveiro, Portugal) <i>Effect of Varying the Cu Content on Cu(In,Ga)Se2 Solar Cells</i>	O O t Cancer O O O
PARALLEL SESSION TRACK B (PhD Students)	
09:00 – 09:15: Luis Miguel Arellano Castellanos (University of Castilla-La Mancha, Spain) <i>Modifying the properties of graphene & carbon nanotubes through chemical modification</i> 09:15 – 09:30: Quentin Arnoux (UPMC/LCPMR, France) <i>DIP interfacial layer in PV heterostructures using ITO as an electrode: impact of coating ratio and evaporation conditions on molecular orientation studied by STXM.</i>	o o
09:30 – 09:45: Edgar Fernandes (Ecole Polytechnique Fédérale de Lausanne (EPFL) / Institut de Physique (IPHYS), Switzerland) Adsorption Sites of Individual Metal Atoms on Ionic Surface with Use of Scanning Tunneling Microscopy	O
09:45 – 10:00: Paul Grey (CENIMAT i3N, Portugal) Draw Your Electronics: Semiconducting Devices by Hand-Writing ZnO Nanoparticles on Paper	O
10:00 – 10:15: Julian Kalb (University of Konstanz, Germany) Positions-controlled growth of rutile TiO2 nanorods and their optical and electronic properties	0
10:15 – 10:30: Sangik Lee (Konkuk University, Korea) The study on electrical properties of black phosphorus	0
10:30 – 10:45: Ana Lúcia Pires (University of Porto, Portugal) Influence of Annealing Temperature in Thermoelectric Materials for Thermal Energy Harvesting	0
10:45 – 11:00: Raquel Rocha (Universidade do Porto, Portugal) Novel solvent-free method for the synthesis of cryptomelane-type manganese oxide nanorods	0
11:00 – 11:15: Chansoo Yoon (Konkuk University, Korea) Synaptic plasticity, learning and memory function in ferroelectric tunnel junction.	0
11:15 – 11:45: Coffee Break / Poster Session & Exhibition	
11:45 – 12:00: Iola Duarte (CICECO - University of Aveiro, Portugal) Integrating metabolic profiling into the toxicological assessment of nanomaterials: the case of silver nanoparticles	0
12:00 – 12:15: Lino Ferreira (Center of Neurosciences and Cell Biology, Portugal) Prolonged intracellular accumulation of light-activatable nanoparticles in leukemic cells allows remote activation	0
12:15 – 12:30: Alexandre Magalhães (UCIBIO/Requimte/University of Porto, Portugal) <i>Modeling a Menshutkin SN2 chemical reaction Inside Carbon Nanotubes</i>	0

12:30 – 12:45: Boris Fainberg (Holon Institute of Technology, Israel)	0
"Plasmonic" properties of organic materials induced by light: bistability, surface polaritons and switch	ing waves
12:45 – 13:00: Shrabani Panigrahi (Universidade Nova de Lisboa and CEMOP, Portugal)	0
Direct Observation of Space Charge Dynamics in an Oxide Based Solar Cell Using Kelvin Probe	
Force Microscopy	
13:00 – 13:15: Paco Martinez (CSInstruments, France)	0
Advanced nano-electrical characterization of bidimensional materials and solar cells with atomic	
force microscopy	
13:15 – 13:30: Jordi Suñe (Universitat Autònoma de Barcelona, Spain)	0
Nonlinear memristive approach for the reset characteristics of thin LSMO films	
13:30 – 13:45: Gabriel Bernardo (University of Sheffield, United Kingdom)	0
Probing nanostructures using neutrons	

13:45: Closing and nanoPT2018 announcement