

## February 07-09, Lisboa (Portugal)

### **TENTATIVE PROGRAM (as of 30/01/2018)**

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



# WEDNESDAY (07/02/2018)

08:00 – 09:00: Registration

09:00 – 09:15: Opening Ceremony- Welcome and Introduction.	
09:15 – 09:45: Rogério Gaspar (University of Lisbon, Portugal)	Κ
Integrative healthcare challenges and the emergence of convergence in Nanomedicine: from health sciences to health care	ı
09:45 – 10:15: Bruno Sarmento (University of Porto, Portugal)	Κ
Functional nanomedicines for modulation the interaction with mucosal barriers	
10:15– 11:00: Coffee Break / Poster Session & Exhibition	
11:00 – 11:30: Ana Grenha (University of Algarve, Portugal)	K
Polysaccharide nanoparticles: Unveiling applications in mucosal drug delivery	
11:30 – 12:00: <b>Lluis F. Marsal</b> (Universitat Rovira i Virgili, Spain)	K
Recent advances in nanoporous anodic alumina for sensing and drug delivery applications 12:00 – 12:30: Maria Cristina Bonferoni (University of Pavia, Italy)	K
Nanoparticle systems based on hydrophobically modified chitosan	N
12:30 – 13:00: <b>Catarina Silva</b> (Universidade Lusófona, Portugal)	K
Advances and current approaches of photoactivated functionalized nanoparticles in cancer targeting treatment	
13:00 – 13:15: Ana Gomez Varela (International Iberian Nanotechnology Laboratory, Portugal)	0
New lipoplex formulation to efficiently transfect human fibroblast: Fluorescence Cross Correlation Spectroscopy tool for lipoplex characterization	ı as
13:15 – 14:15: Cocktail Lunch / Poster Session & Exhibition 14:15 – 14:45: Poster Session & Exhibition	
14:45 – 15:15: José Crecente (University of Santiago de Compostela, Spain)	K
Modulating the immune system through nanotechnology	
15:15 – 15:45: <b>Hanne Mørck Nielsen</b> (University of Copenhagen, Denmark)	K
Conjugation to cell-penetrating peptides influences their membrane interaction and safety	
15:45 – 16:15: <b>Jose Guilherme Vilhena Albuquerque d'Orey</b> (Universidad Autónoma de Madrid, Spain) <i>Atomistic understanding of the mechanical properties of bio-molecules</i>	ļ

#### 16:15–16:45: Coffee Break / Poster Session & Exhibition

16:45 – 17:15: <b>Lifeng Liu</b> (INL, Portugal)	K
Development of Earth-Abundant Electrocatalysts for Efficient and Durable Water Splitting	
17:15 – 17:30: Isilda Amorim (International Iberian Nanotechonlogy Laboratory, Portugal)	0
Ternary cobalt-nickel phosphide nanowire catalysts for electrochemical oxygen and hydrogen evolution in	
alkaline media	
17:30 – 17:45: Xuecheng Chen (West Pomeranian University of Technology, Poland)	0
Synthesis of Nanocarbon from waste Polymer and Potential Application in Electrochemical Energy Storage	

17:45– 18:00: Shrabani Panigrahi (CENIMAT/i3N, Portugal)	0
Imaging the Charge Carrier Distribution Inside Solar Cell Using Kelvin Probe Force Microscopy	
18:00 – 18:15: Francisco Gontad (University of Vigo, Spain)	0
Development of new coatings from marine bioceramics and silver nanoparticles by pulsed laser deposition	
18:15 – 18:45: Raquel Verdejo (CSIC, Spain)	K
Polymer nanocomposites: from thermosets to elastomeric matrices	

# THURSDAY (08/02/2018)

09:00 – 09:30: <b>Jose Hugo Garcia</b> (ICN2, Spain)  Tailoring Spin Dynamics through Proximity Effects in Graphene/Transition Metal Dichalcogenide Heterostruct 09:30 – 10:00: <b>Fèlix Casanova</b> (CIC nanoGUNE, Spain)  Graphene-based heterostructures as spintronic devices	l tures K
10:00– 10:15: Eduardo Castro (Instituto Superior Tecnico, Portugal)	0
Dilute Magnetism in Graphene 10:15 – 10:30: <b>Bruno Amorim</b> (CeFEMA, Instituto Superior Técnico, Universidade de Lisboa, Portugal) General theoretical description of photoemission spectroscopy of van der Waals heterostructures	0
10:30 – 11:00: Coffee Break / Poster Session & Exhibition	
11:00 – 11:30: <b>Artur Moreira Pinto</b> (Eindhoven University of Technology, The Netherlands)  Graphene-based materials and their polymer composites for flexible electronics and biomedical applications	I
11:30 – 11:45: <b>Pedro Costa</b> (King Abdullah University of Science and Technology, Saudi Arabia)  Rational design of graphene-based adsorbents for carbon dioxide uptake	0
11:45 – 12:00: <b>Javier Martinez-Rodrigo</b> (Universidad Politécnica de Madrid / ISOM, Spain) <i>Graphene Silicon-Heterojunction Solar Cells</i>	0
12:00 – 12:15: Marcus Worsley (Lawrence Livermore National Laboratory, United States)	0
3D-Printed Graphene-Based Aerogel Electrodes for Energy-Related Applications 12:15 – 12:30: <b>Nicolas F. Martinez</b> (ScienTec Iberica, Spain)	0
Advanced nano-electrical characterization of solar cells and 2-d materials with atomic force microcopy 12:30 – 12:45: <b>Jérôme Cayssol</b> (Université de Bordeaux, LOMA, France)	0
Ballistic transport in irradiated graphene	
12:45 – 13:00: <b>Gabino Rubio-Bollinger</b> (UAM and IFIMAC, Spain)  Electronic transport and photoresponse of single- and few-layer MoS2 vertical devices	0
13:00 – 14:30. <i>Lunch</i>	
14:30 – 14:50: <b>Antonio Correia</b> (Phantoms Foundation, Spain)	ı
"Graphene and 2D Materials" EUREKA Cluster: Fostering European Competitiveness 14:50 – 15:20: Cristina Freire (University of Porto, Portugal)	
Graphene nanocomposites in chemical, energy related electrocatalysis and sensing	ı
15:20 – 15:50: <b>André Godinho Luz</b> (Infinite Foundry, Portugal)  Cloud based supercomputing for realistic nanotech simulations	I
15:50 – 16:20: <b>Pedro Alpuim</b> (INL, Portugal)	1
Highly target-specific graphene devices for biomedical applications	
16:20 – 17:00: Coffee Break / Poster Session & Exhibition	
17:00 – 17:30: <b>Mario G. Silveirinha</b> (University of Lisbon, Portugal)  Topological photonic systems	K
17:30 – 18:00: Aires Ferreira (University of York, UK)	K
Charge-spin conversion in atomically-thin van der Waals heterostructures 18:00 – 18:15: <b>Ana G. Silva</b> (International Iberian Nanotechnology Laboratory, Portugal) Bioimaging of exo - or endocytosis with interference microscopic imaging	0

0

20:30: Conference Dinner (Restaurante Varanda de Lisboa / Praça Martim Moniz, nº 2; 100-341 Lisboa)

# FRID

### FRIDAY (09/02/2018)

09:00 – 09:15: <b>João Braz</b> (CeFEMA, Instituto Superior Técnico, Universidade de Lisboa, Portugal)	0
Valley polarized magnetic state in hole-doped mono layers of transition metal dichalcogenides	
09:15 – 09:30: <b>David Botequim</b> (Instituto Superior Técnico, Portugal)	0
Fluorescence Enhancement of Labeled Oligonucleotides Using Plasmonic Gold Nanorods Toward Biosensing	
Applications	
09:30 – 09:45: <b>Rute Nunes</b> (I3S, Portugal)	0
Efavirenz-loaded poly (ethylene oxide)-modified nanoparticles as potential rectal anti-HIV microbicides	
09:45– 10:00: Laura Pol (Universitat Rovira i Virgili, Spain)	0
Engineered Nanoporous Anodic Alumina Micro and Nanoparticles for Biomedical Applications	
10:00 – 10:15: Osiris Redondo Herrero (Universidad Rey Juan Carlos, Spain)	0
Anti-icing and de-icing graphene nanoparticles reinforced epoxy coatings	
10:15 – 10:30: Virginia Carnevali (University of Trieste, Italy)	0
Evolution of moire' structures of graphene adlayers on Ni(100) surface	
10:30 – 11:15: Coffee Break / Poster Session & Exhibition	
11:15 – 11:30: Miguel Vitorino (Universidade de Lisboa, Portugal)	0
Direct measurement of the nucleation time of a water nanobridge	
11:30 – 11:45: Nitinkumar Batra (King Abdullah University of Science and Technology, Saudi Arabia)	0
Current-induced structural changes in stressed silver nanowires	
11:45 – 12:00: Soraia Fernandes (INL, Portugal)	0
Covalent Organic Frameworks as a New Tool for the Capture of Hazardous Compounds from Water	
12:00 – 12:15: Isaac Montoya Baños (University of the Basque Country, Spain)	0
Temperature evolution of antiferromagnetic domains in patterned exchange bias systems	
12:15 – 12:30: Fatema Yahya Mohamed Saeed (University of Trieste, Italy)	0
Self-assembled monolayer films of Iron phthalocyanines on thin alumina films: characterization and properties	25
12:30 – 12:45: Paula Parreira (INEB/i3S- Instituto de Engenharia Biomédica/Instituto de Investigação e Inova	
em Saúde; Universidade do Porto, Portugal)	, 0
Bactericidal nanostructured surfaces with high impact against Helicobacter pylori	-
12:45 – 13:15: <b>Paulo Ferreira</b> (INL, Portugal)	Κ
Understanding the Surface Structure of Li1-x[Mn2]O4 by Aberration-Corrected STEM and EELS	

13:15: Closing and nanoPT2019 announcement