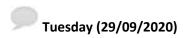


TENTATIVE PROGRAM (as of 29/09/2020)

P: Plenary / K: Keynote lecture / I: Invited Lecture



Conference Time Zone – Madrid, Spain (GMT+2)



09:00 – 09:20: Opening - Welcome and Introduction

Rosa Menedez - President (Spanish National Research Council (CSIC), Spain)

Antonio Correia – President (Phantoms foundation, Spain)

09:20 – 09:50: Andrea Ferrari (Cambridge Graphene Centre, University of Cambridge, UK) Title to be defined	K
09:50 – 10:20: Manish Chhowalla (University of Cambridge, UK) Van der Waals Contacts on 2D Semiconductors	К
10:20– 10:40: Break	
10:40 – 11:00: Amaia Zurutuza (Graphenea, Spain)	1
Graphene Commercialisation Status 11:00 – 11:20: Rune Wendelbo (Abalonyx, Norway)	1
Graphene Oxide for Functional Coatings	•
11:20 – 11:40: Pedro Alpuim (INL, Portugal)	1
Graphene devices for biosensing applications	
11:40 – 11:50: Artur Pinto (LEPABE, Faculty of Engineering, University of Porto, Portugal)	0
Nanographene production scale-up and its biomedical applications with focus on cancer phototherapy	
11:50 – 12:00: Jakub Kierdaszuk (University of Warsaw, Poland) Highly effective gating of graphene on GaN nanopillars and epilayers	0
12:00 – 12:10: Nerea Bilbao (KU Leuven, Belgium)	0
On-Surface Boroxine 2D Covalent Organic Frameworks: a Comprehensive Analysis	J
12:10 – 12:20: Anya Grushina (Heidelberg Instruments Nano, Switzerland)	0
NanoFrazor lithography for precise shaping and non-invasive contacting of 1D & 2D materials	
12:20 – 12:30: Ozge Saglam (Izmir University of Economics, Turkey)	0
Algorithmic Detection of Oxide Nanosheets	0
12:30 – 12:40: Svetlana Ponomareva (University Grenoble Alpes, France) Graphene nanosheets produced by a green liquid phase exfoliation process	U
Graphene nanosneets produced by a green inquita phase extonation process	
12:40 – 13:30: Lunch Break	
13:30 – 14:00: Daniel Neumaier (AMO GmbH, Germany)	K
Graphene based Electronic Devices and Integrated Circuits - Applications and Manufacturing	
14:00 – 14:30: Gianluca Fiori (University of Pisa, Italy)	K
Networks of two-dimensional materials for electronic applications	
14:30 – 14:50: Julio Gomez (Avanzare, Spain)	I
Graphene based composites becomes a reality in 2020 14:50 – 15:20: Arben Merkoci (ICREA-ICN2, Spain)	K
Graphene-based biosensors	IX.
15:20 – 16:00: Walt A de Heer (Georgia Tech, USA)	Р
Graphene nanoelectronics at the edge	

16:00 – 16:15: *Break*

16:15 - 16:45: *ePoster Session*

16:45 – 17:15: Pablo Alonso Gonzalez (University of Oviedo, Spain) Nano-optics in 2D materials	K
17:15 – 17:35: Ion Errea (CFM-UPV, CSIC, Spain)	ı
Mechanically stable graphene with quadratic out-of-plane acoustic modes	
17:35 – 17:45: Alejandro Criado Fernández (CICbiomaGUNE, Spain)	0
A nanotechnological entry to fine carbohydrate-protein detection through CVD graphene	
17:45: Closing Day 1	
Wednesday (30/09/2020)	
09:00 – 09:30: Vincenzo Giannini (CSIC, Spain)	K
Extraordinarily transparent compact metallic metamaterials	14
09:30 – 10:00: Lluis F. Marsal (URV, Spain) Fine-tuning of the nanoporous alumina photonic stopbands by using non-conventional pulse anodization	K
10:00 – 10:30: Luis M. Liz-Marzan (CIC biomaGUNE, Spain)	K
Self-Assembly of Plasmonic Nanoparticles Under Confinement	
10:30 – 10:50: Manuel Marques (UAM, Spain)	I
Magneto-optical Stren-Gerlach forces and non-reciprocal torques on small particles	
10:50— 11:05: Break	
11:05 – 11:15: Daniel García-Lojo (CINBIO - Universidade de Vigo, Spain)	0
Plasmonic supercrystals integrated in microfuldics for ultrasensitive and selective SERS detection	_
11:15 – 11:25: Rebeca Sola-Llano (University of the Basque Country, Spain)	Ο
Promising artificial one-directional antenna system based on cyanine-doped hybrid material 11:25 – 11:35: Gonzalo Álvarez Pérez (Universidad de Oviedo, Spain)	0
Infrared permittivity of the biaxial van der Waals semiconductor alpha-MoO3 from near- and far-field correlative stud	
11:35 – 11:45: Leire Gartzia-Rivero (University of the Basque Country (UPV/EHU), Spain)	0
Photoluminescent Organic Materials with Tuneable Emission-Colour and Polarization	
11:45 – 11:55: Eduardo Gil Santos (Instituto de Micro y Nanotecnología, IMN-CNM (CSIC), Spain)	0
Optomechanical detection of single bacterium mechanical modes	
11:55 – 12:05: Javier Martín Sánchez (University of Oviedo, Spain)	0
Strain-tunable Quantum Optical Emission in WSe2 Monolayers	
12:05 – 13:00: <i>ePoster Session</i>	
13:00 – 13:45: Lunch Break	
13:45 – 14:15: Otto L. Muskens (University of Southampton, UK)	K
Shaping light using ultrafast and programmable nano-optics	K
14:15 – 14:45: Javier García de Abajo (ICREA - ICFO, Spain)	K
Control of Light at the Atomic Scale: Fundamentals and Applications	
14:45 – 15:15: Niek van Hulst (ICREA - ICFO , Spain)	Κ
Near-field Interference for Local Field Shaping	
15:15 – 15:45: Remi Carminati (ESPCI Paris / PSL University, France)	K
Blind ghost imaging through scattering media	
15:45 – 16:00: <i>Break</i>	
16:00 – 16:20: Posthumous tribute to Juan Jose Saenz "Mole"	
16:20 – 17:00: Uzi Landman (Georgia Tech, USA)	Р
Small is different; old questions, new paradigms	

17:00: Closing Day 2

Small is different: old questions, new paradigms



09:00 – 09:30: Lorenzo Moroni (Maastricht University, The Netherlands)	K	
Biofabrication to control cell fate		
09:30 – 10:00: Giuseppe Battaglia (IBEC, Spain)	K	
4D transmission electron microscopy: imaging soft materials and biologicals in liquid phase		
10:00 – 10:10: Teresa Sanchis (IBEC / NanomedSpain, Spain)	0	
Nanomed Spain, the Spanish Technological Platform for Nanomedicine: promoting public-private colla	boration,	
innovation and clinical translation of nanomedicine in Spain		
40.40		
10:10– 10:45: Break		
10:45 – 11:15: Javier Ramón Azcón (IBEC, Spain)	K	
Integration of Microphysiological Systems with Organ-on-a-Chip technology for Disease Modeling		
11:15 – 11:45: Danny Porath (The Hebrew University of Jerusalem, Israel)	K	
Backbone charge transport in double-stranded DNA		
11:45 – 12:05: Lucía Gutiérrez (UNIZAR, Spain)	1	
Magnetic hyperthermia for cancer treatment: past problems, ongoing work and future possibilities		
12:05 – 12:35: Iraida Loinaz (CIDETEC, Spain)	K	
Is it worth collapsing a polymer chain? In vitro biocompatibility and in vivo distribution studies of Dext	ran based	
SCPNs and non-crosslinked polymer		
12:35 – 12:45: Sebastian Thompson (IMDEA, Spain)	0	
Nano-scale temperature measurements using anisotropy-based nanothermometers for cancer theran	ostics	
12:45 – 12:55: Ruth Prieto (University of Basque Country, Spain)	0	
Fluorescence dye-silica nanoparticle for detection of cancer cells		
12:55 – 13:05: Jagoba Iturri (BOKU University for Natural Resources and Life Sciences, Austria)	0	
Single-Cell Probe Force studies to identify Sox2 overexpression-promoted Cell adhesion variations in MCF7 Breast		
Cancer Cells		

13:05 – 13:15: David Rodriguez-Larrea (Instituto Biofísika UPV/EHU-CSIC, Spain)

Nanopores as single-molecule tools in nanobiotechnology

13:15 – 14:00: ePoster Session 14:00 – 14:30: Lunch Break

14:30 - 15:30: Oral Parallel Sessions

Oral Parallel Session I

14:30 – 14:40: Verónica Montes García (Université de Strasbourg & CNRS, France)	0
Gold Nanoparticles Chemiresistors: towards e-tongues for Ions Sensing	
14:40 – 14:50: Pankaj Kapruwan (Universitat Rovira i Virgili, Spain)	0
Analyzing the loading and release of Rhodamine 6G dye from Nanoporous anodic alumina rugates filters usin	g
optical methods	
14:50 – 15:00: Dean J. Miller (ZeppelinMet, Spain)	0
Taking multimodal materials characterization further with plasma FIB-SEM	
15:00 – 15:10: Mónica Reigía-Blanco (University of Santiago de Compostela, Spain)	0
Electrochemical synthesis and characterization of silver atomic quantum clusters of three atoms	
15:10 – 15:20: Nerea Borja Gonzalez (University of Santiago de Compostela, Spain)	0
Tuning titanium dioxide with cu5-atomic quantum clusters for hydrogen photoproduction	
15:20 – 15:30: Shahana Huseyinova (University of Santiago de Compostela, Spain)	0
Surfactant-Free Sub-nanometric Copper Clusters. Synthesis, Characterization and Properties	

Oral Parallel Session II

0

Nanolayered MoS2-Based Catalysts: A Convenient Choice for the Synthesis of Fine Chemicals 14:40 – 14:50: Rita Tilmann (Universität der Bundeswehr München, Germany) Highly Selective, Non-Covalent Functionalization of MoS2 - Inorganic-Organic Heterostructures 14:50 – 15:00: Iria Rodríguez Arias (University of Santaigo de Compostela, Spain) Atomic quantum clusters as catalyst of antirradical reactions 15:00 – 15:10: Jose Manuel Blanco Trillo (University of Santaigo de Compostela, Spain) Synthesis, Characterization and Properties of Silver Clusters	0 0 0
15:10 – 15:20: Alfonsina Abat Amelenan Torimtubun (Universitat Rovira i Virgili, Spain)	0
High-Performance Organic Photovoltaic Cells for Indoor Light Energy Harvesting 15:20 – 15:30: Enas Moustafa (University of Rovira i Virgili, Spain) Spray Pyrolysis Technique Utilized for the Fabrication of Inverted Polymer Solar Cells	0
15:30 – 15:45: <i>Break</i>	
15:45 – 16:15: Josetxo Pomposo (CFM-UPV, CSIC, Spain) Single-Chain Nanotechnology: Current Status and Opportunities	K
16:15 – 16:45: Monica Lira-Cantú (ICN2, Spain)	K
Nanomaterials for Emerging Photovoltaics: Halide Perovskite Solar Cells	14
16:45 – 17:15: Jérôme Cornil (Université de Mons, Belgium) Pinning Effects at Hybrid Interfaces: A Theoretical Insight	K
17:15 – 17:45: Mikhail Otrokov (CFM-CSIC/UPV, Spain) Discovery of the intrinsic antiferromagnetic topological insulators: theory and experiment	K

17:45: IM2020 Online Closing