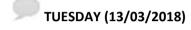




TENTATIVE PROGRAM (as of 09/03/2018)

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



08:00 – 09:00: Registration

09:00 – 09:15: Imaginenano2018 Opening Ceremony- Welcome and Introduction.

Imaginenano2018 Plenary Session

09:15 – 10:00: Pedro Miguel Echenique (DIPC, Spain)	Р
Surface Attophysics	
10:00 – 10:45: Avelino Corma (ITQ – CSIC / UPV, Spain)	Ρ
Nanopores such as molecular sieves, catalysts and containers	

10:45–11:30: Coffee Break / Poster Session & Exhibition

nanoSpain2018 tentative program

11:30 – 12:00: Robert Westervelt (Harvard University, USA)KSTC for Integrated Quantum Materials Quantum Information Science & Technology12:00 – 12:30: Elad Gross (The Hebrew University of Jerusalem, Israel)KHigh spatial resolution mapping of catalytic reactions on single nanoparticles12:30 – 13:00: Pascal Larregaray (CNRS / Université Bordeaux · ISM, France)KElementary reactivity at the nanometer scale: the abstraction of atoms from metal surfacesK

13:00 – 14:30: Lunch

14:30 – 15:00: Liraz Chai (The Hebrew University of Jerusalem, Israel)KA bottom-up view at the aggregation of a bacterial functional amyloid protein15:00 – 15:30: Mihaela Delcea (University of Greifswald, Germany)KNanotools to understand why proteins and nanoparticles induce an immune response5:30 – 15:45: Monica Carril (CIC biomaGUNE, Spain)OIn situ detection of the protein corona in complex15:45 – 16:00: Oihane Ibarrola (Praxis Pharmaceutical, Spain)ONoCanTher: Nanomedicine Upscaling for Early Clinical Phases of Multimodal Cancer Therapy016:00 – 16:15: Roberto de la Rica (Universitat de les Illes Balears, Spain)OReconfigurable Assemblies of Plasmonic Nanoparticles and Proteins for BiosensingO

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

Parallel Session 1 - Seniors

16:45 – 17:00: Angel Del Pozo (Biopraxis Research AIE, Spain)	0
Smart multifunctional GLA-nanoformulation for treating Fabry disease	
17:00 – 17:15: Joan Josep Carvajal Martí (Universitat Rovira i Virgili, Spain)	0
SWIR luminescence nanothermometry for biomedical applications	
17:15 – 17:30: Rameez Ahmad (Nanoscribe GmbH, Germany)	0
Spectrum of applications of world's highest resolution micro 3D printer: from research to industry	
17:30 – 17:45: Montserrat Rivas (Universidad de Oviedo, Spain)	0
Designing and reading magnetic lateral flow strips for point-of-use food and clinical applications	
17:45 – 18:00: Gerald Kada (Keysight Technologies, Austria)	0
Monitoring Electrochemical Processes in a Safe Environment – from Metal Layers to Batteries	
18:00 – 18:15: Ana Gomez (International Iberian Nanotechnology Laboratory, Portugal)	0
Simultaneous advanced microscopies for cellular dynamics	
18:15 – 18:30: Andres Gomez Rodriguez (ICMAB-CSIC, Spain)	0
Disclosing piezogeneration at the nanoscale with Direct Piezoelectric Force Microscopy	
18:30 – 18:45: Edmund Leary (University of Liverpool, UK)	0
Detecting mechanochemical atropisomerization within an STM breakjunction using porphyrins	
18:45 – 19:00: Jose San Juan (Universidad del País Vasco, Spain)	0
Size-Effect on Superelasticity at Nano-Scale in Shape Memory Alloys for Potential Applications in MEMS	
19:00 – 19:15: Maria Dolores Romero (IMNR, Romania)	0
Sol-Gel Microencapsulation of NaNO3 as Phase Change Material for Thermal Energy Storage	

Parallel Session 2 - Seniors

16:45 – 17:00: Amir Gheisi (SpringerNature, Germany)	0
How Nature Indexing Helps You Find Nanotechnology Literatures and Data Efficiently	
17:00 – 17:15: Leire Gartzia-Rivero (University of the Basque Country (UPV/EHU), Spain)	0
Anisotropic Photo-Patterning of Fluorescent Nano-Fibers on Isotropic Surfaces: Control of Orientation, Positio	n
and Color	
17:15 – 17:30: Begoña Galindo (AIMPLAS, Spain)	0
Low energy heating system based on Joule effect for electric vehicles	
17:30 – 17:45: Juan Francisco Gonzalez Martinez (Malmö University, Sweden)	0
Humidity can induce phase transitions of surfactants embedded in latex coatings which can drastically decrea	ise
their performance	
17:45 – 18:00: Dietmar Leinen (University of Malaga, Spain)	0
Ag-ZrO2 cermet coatings sprayed onto steel sheet	
18:00 – 18:15: Leire Ruiz Rubio (University of The Basque Country, Spain)	0
Polyoxometalate-chitosan nanogels for breast cancer therapies	
18:15 – 18:30: Rebeca Sola-Llano (University of the Basque Country, Spain)	0
MgAPO-based nanostructured materials: in the search of one-directional antenna systems.	
18:30 – 18:45: Cristina Vicente Manzano (EMPA, Switzerland)	0
Controlling Colour and Effective Refractive Index of Metal-Anodic Aluminium Oxide-Al Nanostructures:	
Morphology of AAO	
18:45 – 19:00: Javier Junquera (Universidad de Cantabria, Spain)	0
Second-Principles Density Functional Theory: A systematically improvable multi-scale method including	
electrons and lattice degrees of freedom	
19:00 – 19:15: Kaddeche Mourad (Université de Djilali Bounaâma- Khemis miliana, Algeria)	0
Simulation of nanoscale AlGaN/GaN high -electron mobility transistors employing field-plate structure	

WEDNESDAY (14/03/2018)

09:00 – 09:30: Luis Sanz Tejedor (OEPM, Spain) L Nanotechnology and the Patent System 09:30 – 10:00: Maria Jadraque (PONS IP, Spain) L Patent protection of nanomaterials and nanotechnology related inventions 10:00 – 10:15: Iain Alisdair McGeoch (ABG Patentes S.L., Spain) 0 Patenting Nanotechnology 10:15 – 10:30: Miren P. Cajaraville (University of the Basque Country, Spain) 0 Exploring the potential of graphene nanomaterials as carriers for oil compounds: an in vitro toxicity approach 10:30 – 10:45: Celina Vaquero (TECNALIA, Spain) 0 Ensuring safety when scaling-up nano-based processes: the case of printed electronics 10:45 – 11:00: Arantxa Ballesteros (ITENE, Spain) 0 Toxicological profile assessment of ENMS for polymer industry in the context of NanoDesk SUDOE project

11:00–11:30: Coffee Break / Poster Session & Exhibition

11:30 – 12:00: Pablo Ordejón (ICN2, Spain)	К
Layered and 2D materials: electronic properties and structural instabilities from first principles	
12:00 – 12:30: Stephan Roche (ICREA/ICN2, Spain)	К
2D materials for Spin/Valleytronics: Theoretical Perspective	
12:30 – 13:00: Jean-Christophe Charlier (UCL, Belgium)	К
Electronic and optical properties of strained graphene and borophene	

13:00 – 14:30: Lunch (offered by the organization)

Parallel session 1 - PhD Students

14:30 – 14:45: Marc Vila Tusell (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain)	0
Quantum transport simulations of graphene non-local spin valves	
14:45 – 15:00: Ursula Ludacka (University of Vienna, Austria)	0
Measuring and controlling free-standing 2D materials	
15:00 – 15:15: Eduarda Fernandes (Centre of Physics of University of Minho and Porto (CFUM), Portugal)	0
Nanosystems as biomimetic interfaces: a new strategy to predict drug candidate biophysical profile	
15:15 – 15:30: Telma Soares (CFUM - Physics Center of Minho and Porto Universities, Portugal)	0
An innovative nanocarrier for neuroprotection	
15:30 – 15:45: Anastasia Visheratina (ITMO University, Russia)	0
Optically active hybrid nanostructures based on semiconductor quantum dots and chiral molecules for	
biomedicine	
15:45 – 16:00: Monu Ojha (IIT Delhi, India)	0
Use of biological nanoparticles for degradation of Non-degradable polymers	
16:00 – 16:15: Georgiana Amariei (University of Alcala, Spain)	0
Electrospun Nanofibers Containing Antimicrobial Peptides for Bio-film Prevention	
16:15 – 16:30: Ruth Prieto Montero (University of Basque Country, Spain)	0
Silica nanoparticles for bioimaging and Photodynamic Therapy	
16:30 – 16:45: Domenico Cassano (NEST - Scuola Normale Superiore, Italy)	0
Passion fruit-like nano-architectures: enabling the clinical translation of metal nanomaterials	
Parallel session 2 - PhD Students	

Parallel session 2 - PhD Students

14:30 – 14:45: Anibal Pacheco (Technische Universitaet Dresden, Germany)	0
Device design parameters for carbon nanotube field-effect transistors	
14:45 – 15:00: Carlos Doñate Buendía (Universidad Jaume I (UJI), Spain)	0
Carbon Quantum Dots Fluorescent Labels Generated by Continuous Laser Fragmentation	
15:00 – 15:15: Sandra Ruiz-Gomez (Universidad Complutense de Madrid, Spain)	0
3D magnetometry in ultrathin magnetite using XMCD-PEEM	

15:15 – 15:30: Roberto María Hormigos (Universidad de Alcalá, Spain) Surfactant-free β-galactosidase micromotors for "on-the-move" lactose hydrolysis	0
15:30 – 15:45: Berta Díez Odriozola (Alcala University, Spain)	0
Anti-(bio)fouling Composite Membranes by Polyacrylic acid/Poly(vinyl alcohol) Layer	0
15:45 – 16:00: Honorio Salmerón Valdivieso (Universidad de Granada, Spain)	0
Interpretation and applicability of parallel superposition rheology techniques on liquid like flocculated hard s	phere
dispersions	
16:00 – 16:15: Gunnar Klös (Aarhus University, Denmark)	0
Chiral gold nano-hooks for increased LSPR sensitivity	
16:15 – 16:30: Chen Chen (UC Berkeley, USA)	0
Local Electronic Structure of a Single-Layer Porphyrin-Containing Covalent Organic Framework	
16:30– 17:00: Coffee Break / Poster Session & Exhibition	
17:00 – 17:30: Victor Puntes (ICN2, Spain)	К
CeO2 nanoparticles as safe CT X-ray contrast imaging agents	
17:30 – 18:00: Danny Porath (The Hebrew University of Jerusalem, Israel)	К
Novel DNA-Based Molecules and Their Charge Transport Properties	
18:00 – 18:15: Silvia Hernández Ainsa (University of Zaragoza, Spain)	0
Controlling photoacoustics enhancement with DNA nanostructures	
18:15 – 18:30: Pablo Botella Asuncion (Instituto de Tecnología Química (UPV-CSIC), Spain)	0
Mastering Contrast Agents in a Single Structure for T1-T2 Dual Magnetic Resonance Imaging	
18:30 – 18:45: Juan Gallo (INL, Portugal)	0
Tunable performance of manganese oxide nanostructures as MRI contrast agents	-
18:45 – 19:00: Ana García Sanz (Vall d'hebron Research Institute, Spain)	0
CeO2 nanoparticles as safe CT X-ray contrast imaging agents	•
19:00 – 19:15: Gunther Van Kerckhove (OCSiAl Europe Sarl, Luxembourg)	0
Health, safety & environmental issues	~
19:15 – 19:30: Carlos Fito (ITENE, Spain)	0
NanoMONITOR- A new real-time monitoring system to support the risk assessment of ENMs under REACH	

THURSDAY (15/03/2018)

09:00 – 09:30: Joaquín Fernández-Rossier (INL, Portugal)	К
Van der Waals spintronics with magnetic 2D crystals	
09:30 – 10:00: Rodolfo Miranda (IMDEA-Nanociencia, Spain)	К
Emergent Spin-Orbit Related Phenomena in Intercalated Graphene	
10:00 – 10:15: Andres Ayuela (DIPC, CFM, Spain)	0
Layertronics – the layer localization control of topological states in bilayer graphene with a gate voltage	
10:15 – 10:30: Nerea Bilbao (KU Leuven, Belgium)	0
New approaches towards surface-supported two-dimensional covalent organic frameworks	

10:30 – 11:00: Coffee Break / Poster Session & Exhibition

11:00 – 11:30: JingCheng Li (NanoGUNE, Spain)	I
Elementary Phenomena in Hybrid Graphene Nanoribbons on Surfaces	
11:30 – 12:00: Ariel Ismach (Tel Aviv University, Israel)	К
Graphene and Beyond: Synthesis and Characterization of Atomic-Films	
12:00 – 12:30: Alain Pénicaud (CNRS / Université Bordeaux-I, France)	Κ
Sustainable carbon: graphene water, nanotube water and ecofriendly conducting rubbers, electrocatalysts and supercapacitors	1
12:30 – 12:45: Eric Anglaret (Université Montpellier, France)	0
Optical spectroscopy signatures of single walled carbon nanotubes dispersed in degassed water without additives	
12:45 – 13:00: Antonio Cid Samamed (Universidad de Vigo, Spain)	0
Redispersion and Self-Assembly of C60 Fullerene in Water and Toluene	

13:00 – 14:30 Lunch

14:30 – 15:00: Marc Chaigneau (HORIBA Scientific, France)	Ι
Nanoscale Chemical and Electronic Mapping of Carboxyl Graphene Oxide using TERS	
15:00 – 15:15: Haldun Sevincli (Izmir Institute of Technology, Turkey)	0
Tuning phonon thermal transport through graphene by using ensembles of molecular antiresonances	
15:15 – 15:45: Aran García-Lekue (DIPC, Spain)	L
Novel Electronic States in Graphene Nanostructures	
15:45 – 16:15: Mads Brandbydge (Technical University Denmark, Denmark)	К
Transport in and into graphene: Insights from transport calculations	
16:15 – 17:00: Coffee Break / Poster Session & Exhibition	
17:00 – 17:30: Teófilo Rojo (CIC energiGUNE, Spain)	К
Nanomaterials for Energy Storage	
17:30 – 17:45: Antonio Ladron de Guevara (Instituto de Sistemas Optoelectrónicos y Microtecnología, Spain)	0
Laser-reduced graphene for energy storage devices	
17:45 – 18:00: Zeynep Karahaliloglu (Aksaray University, Turkey)	0
Nano/Microbilayer Hemostatic Agents in Diabetic Injury Wound Model in Rat	
18:00 – 18:30: Carmen Mijangos (CSIC/ICTP, Spain)	Κ
Challenges in polymer nanotechnology applications: patterning strategies and polymer confinement effects	

18:30: Closing