

SCIENCE • INDUSTRY • SOCIETY

2018
IMAGINE NANO

MARCH 13-15 • BILBAO • SPAIN

www.imaginenano.com

PROGRAM & POSTER LIST

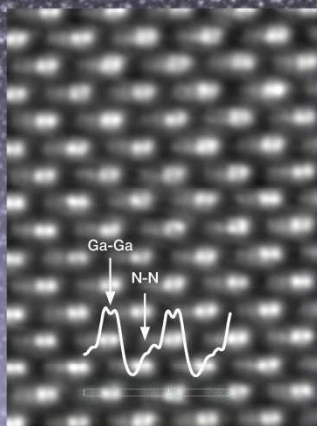
• ORGANISERS

PHANTOMS
foundation

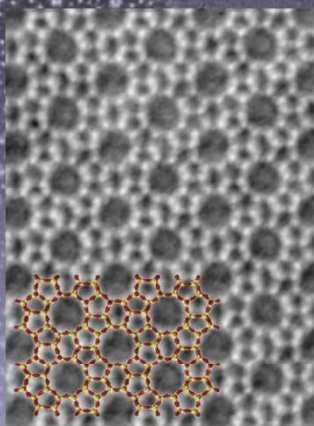
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BILBAO
EXHIBITION
CENTRE

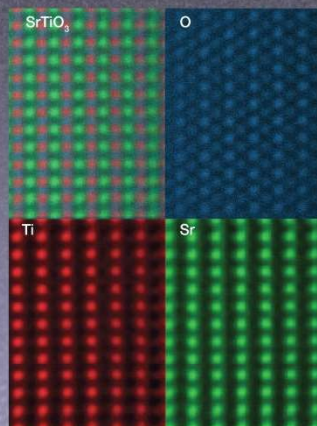
EXPOSSIBLE!



iDPC image showing simultaneous 63 pm splitting of Ga-Ga and N-N columns in GaN [211].



Atomic resolution image of ZSM-5 Zeolite showing the complicated arrangement of the Si (yellow) and O (red) atoms in the structure (1). 1. J. Su et al, *Microporous and Mesoporous Materials* 189 (2014) 115–125.



Atomic resolution EDS Mapping of [110] oriented SrTiO_3 at 200kV using the Thermo Scientific Dual-X detector configuration.

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On behalf of the International, Scientific and Technical Committees we take great pleasure in welcoming you to Bilbao for the fourth edition of **ImagineNano**. Back in 2015, **ImagineNano** event has strengthened its position as one of the main events dedicated to Nanoscience and Nanotechnology (N&N) in Europe. The outstanding results of participation that have been reached and the interest created by the discussions, have laid the foundations for the upcoming edition.

ImagineNano 2018 is now an established event and is an excellent platform for communication between science and business, bringing together Nanoscience and Nanotechnology in the same place.

Internationally renowned speakers will be presenting the latest trends and discoveries in Nanoscience and Nanotechnology.

Under the same roof will be held 4 International Conferences (graphIn, NanoSpain, IC2 and 3PM), a vast exhibition showcasing cutting-edge advances in nanotechnology research and development, an industrial forum and a brokerage event (one-to-one meetings).

ImagineNano will gather the global nanotechnology community, including researchers, industry, policymakers and investors. The latest trends and discoveries in N&N from some of the world's leading players in the field will be discussed.

We would like to thank all participants, sponsors and exhibitors that joined us this year.

The Basque Country demonstrates its strengths in nanoscience, micro and nanotechnology, and positions itself as a major player in the "nano" world, reason why **ImagineNano** is organized for the 4th time in Bilbao.

There's no doubt that **ImagineNano 2018** is the right place to see and be seen.

Hope to see you again in the next edition of **ImagineNano** (2020).

● ORGANISERS



Committees	<u>Page 5</u>
Sponsors	<u>Page 6</u>
General info	<u>Page 8</u>
Agenda & location	<u>Page 9</u>
Exhibitors	<u>Page 10</u>
Programs	<u>Page 12</u>
Poster list	<u>Page 28</u>

IMAGINENANO 2018 MAIN ORGANISERS

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The Regional Government is the executive body that, within its area of competence, assumes the government and administration of Bizkaia. The historical figure of the Deputy General heads the Regional Government. The latter is elected by the Provincial Parliament of Bizkaia. The Deputy General elects, in turn, the Regional Deputies, who head the various departments that make up the Regional Government. Currently, this is formed by the following Regional Departments: Agriculture / Culture / Economic Promotion / Environment / General Deputy / Presidency / Public Works and Transport / Social Action / Treasury and Finance



Donostia International Physics Center (DIPC) is a singular research center devoted to research at the cutting edge in the fields of Condensed Matter Physics and Materials Science. Born in 2000, its board enjoys the participation of public bodies as well as private entities.

Since its conception DIPC has stood for the promotion of excellence in research, which demands a flexible space where creativity is stimulated by diversity of perspectives. The most remarkable characteristic of the center is its dynamic research community, integrated by local host scientists and a large number of international visiting researchers.



ICEX Spain Trade and Investment is a public business organization which works worldwide with the objective of promoting the internationalization of Spanish companies in order to improve their competitiveness, as well as boosting foreign investment in Spain. ICEX offers its services through 31 Provincial and Territorial Trade Offices in Spain, 98 Economic and Commercial Offices worldwide, the largest foreign network, and 19 Business Centres abroad. Every year, ICEX organizes around 1,200 promotional activities in foreign markets and answers over 90,000 queries on internationalization.

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The Center for Cooperative Research in Biomaterials - CIC biomaGUNE, located in San Sebastian (Spain), was officially opened in December 2006. CIC biomaGUNE is a non-profit research organization created to promote scientific research and technological innovation at the highest levels in the Basque Country following the BioBasque policy, in order to create a new business sector based on biosciences. Established by the Government of the Basque Country, CIC biomaGUNE constitutes one of the Centers of the CIC network, the largest Basque Country research network on specific strategic areas, having the mission to contribute to the economical and social development of the country through the generation of knowledge and speeding up the process that leads to technological innovation.

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Wireless network: Imaginenano2018 (no password is required)

EXHIBITION & POSTER AREA

LUXUA – exhibition and poster area, 3rd floor

DATES & TIMES OF THE CONFERENCES

Check programs for conference and parallel activities exact hours

COFFEE BREAKS

LUXUA – exhibition and poster area, 3rd floor.
See conference programs for timetables

IMAGINENANO 2018 DINNER*

Tuesday March 13, 21:00

Sociedad Bilbaina

Nafarroa Kalea 1, 48001 Bilbao

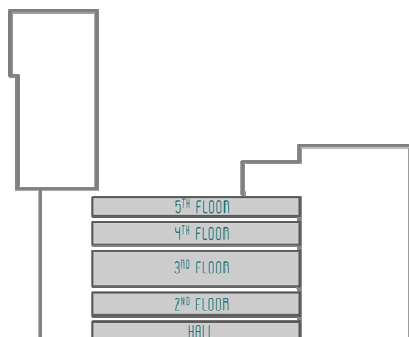
*Conference dinner only included for the following passes: Global, NanoSpain2018 and 3PM 2018.
If you wish to attend, contact the organisers at the registration desks.

TAXIS

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● AGENDA & LOCATION

TUESDAY – MARCH 13	ROOM	FLOOR	TIME
ImagineNano2018 Plenary session	Auditorium 1	4	09:00-10:45
GraphIn2018 Plenary session	Room 1A	5	11:30-18:30
nanoSpain2018 Plenary session	Auditorium 1	4	11:30-16:15
nanoSpain2018 Parallel Session 1 - Seniors	Auditorium 1	4	16:45-19:15
nanoSpain2018 Parallel Session 2 - Seniors	Room 3	5	16:45-19:15
3PM 2018 Plenary session	Room 2	5	11:30-18:15
Industrial Forum Session 1: "Strategies on technology transfer and patents commercialization for nanotechnology: successful stories" <i>Organized by CSIC</i>	Luxua	3	11:30-12:15
Industrial Forum Session 2: "Funding NANO to Market and Society" <i>Organized by CDTI</i>	Luxua	3	14:00-15:30
Industrial Forum Session 3: "Nanofabrication with RAITH EBL and FIB equipment" <i>Organized by Raith</i>	Luxua	3	16:30-19:00
WEDNESDAY – MARCH 14	ROOM	FLOOR	TIME
GraphIn2018 Parallel Session Characterization	Room 3	5	09:00-11:00
GraphIn2018 Parallel Session Standardization & Production	Room 3	5	11:30-12:55
GraphIn2018 Parallel Session Applications	Room 1A	5	09:00-13:05
GraphIn2018 Plenary Session	Room 1A	5	14:30-18:30
nanoSpain2018 Plenary Session	Auditorium 1	4	09:00-13:00
nanoSpain2018 Parallel Session 1 - PhD Students	Auditorium 1	4	14:30-16:45
nanoSpain2018 Parallel Session 2 - PhD Students	Room 3	5	14:30-16:30
nanoSpain2018 Plenary Session	Auditorium 1	4	17:00-19:30
3PM 2018 Plenary session	Room 2	5	09:00-18:30
IC2 – COMPOSITE 2018: Plenary session	Room 4	5	09:00-19:15
Industrial Forum Session 4: "Showcasing industrial multi-sectorial applications of pilot infrastructures for the development of new nano-enabled materials and components" <i>Organized by TECNALIA</i>	Luxua	3	09:00-13:00
Industrial Forum Session 5: "Safe by Design Implementation: Industrial experiences from European Initiatives" <i>Organized by Gaiker & TEMAS</i>	Luxua	3	14:00-16:30
Industrial Forum Session 6: "NanoDesk: Advanced web tools to promote the implementation of nanotechnologies and a safe use of nanomaterials in the plastic industry" <i>Organized by ITENE</i>	Luxua	3	17:00-19:00
B2B Brokerage Event	Luxua	3	09:30-18:00
THURSDAY – MARCH 15	ROOM	FLOOR	TIME
nanoSpain2018 Plenary session	Auditorium 1	4	09:00-18:30
3PM 2018 Plenary session	Room 2	5	09:00-18:30
IC2 – COMPOSITE 2018	Room 4	5	09:00-13:00
Industrial Forum Session 7: "Graphene and 2D Materials" EUREKA Cluster <i>Organized by Graphene & 2DM EUREKA cluster</i>	Luxua	3	09:30-11:15
Industrial Forum Session 8: "SIESTA: professional open source code ready for industry" <i>Organized by SIMUNE</i>	Luxua	3	11:30-13:00



5TH FLOOR

Room 1A
Room 2
Room 3
Room 4

4TH FLOOR

Auditorium 1

3RD FLOOR

LUXUA
Exhibition & poster area
Industrial Forum
B2B – Brokerage Event

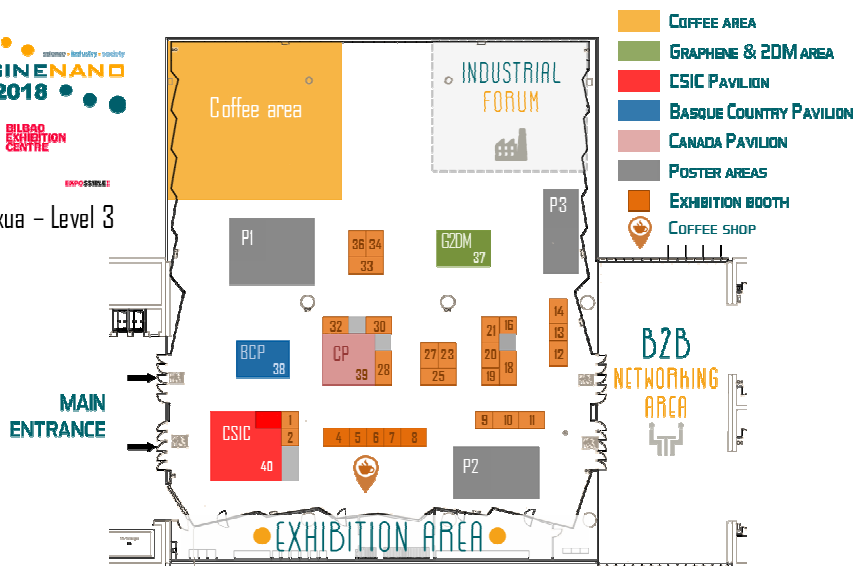
2ND FLOOR

Registration area

IMAGENANO
2018

BILBAO EXHIBITION
CENTRE

Luxua – Level 3



1 SolenTec Ibérica

2 nano tech 2019

4 NanoScan

5 TECNASA

6 Ixaso Scientific

7 Nanoscribe

8 neaspec

9 Das-Nano

10 NANOMED Spain

11 ICN2

12 CDTI

13 Jagomex

14 SPECS Surface Nano

Analysis GmbH

16 Nanotechnology

Industrial Association

18 ITENE

19 Schaefer techniques

20 Solmeigas S.L.

21 ANTARES

INSTRUMENTACION S.L.

23 HORBAS Scientific

25 Carl Zeiss Iberia S.L.

27 ACS Publications

28 AI MPLAS

30 Alaya Ingenieros

Grupo Alaya

32 LEYBOLD

33 Lasing S.A.

MOPI AG

Nanomaterials

36 Railth

37 Graphene & 2DM

area

Oxford Instruments

Plasma Technology

Oxford University of

Technology

"Graphene & 2DM"

EUREKA Cluster

Abalonyx

Graphene Batteries AS

Graphenea

38 Basque Country

Pavilion

TECNALIA

University of the

Basque Country

Simune Atomistics S.L.

CIC biomAGUNE

K4 RESEARCH

ALLIANCE

39 Canada Pavilion

Celluforce

NanoCanada

National Research

Council Canada

40 CSIC Pavilion

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EXHIBITORS



● INDEX PROGRAMS









ImagineNano 2018 **Page 13**

NanoSpain 2018 **Page 14**

3PM 2018 **Page 19**

graphIn 2018 **Page 22**

IC2 – Composites 2018 **Page 26**

	TUESDAY MARCH 13	WEDNESDAY MARCH 14	THURSDAY MARCH 15
2018 IMAGINENANO	FACE ENTRANCE		
	 NANOSPAIN 2018		
	 3PM 2018		
	 GRAPHIN 2018		
		 International Composites Conference IC2 2018	
		 B2B BROKERAGE EVENT	
		 POSTER SESSION	
		 INDUSTRIAL FORUM	
		IMAGINENANO EXHIBITION	

P: PLENARY / K: KEYNOTE / I: INVITED / O: ORAL

IMAGINENANO 2018 PLENARY program



TUESDAY MARCH 13, 2018

08:00	Registration	
09:00	Imaginenano2018 Opening Ceremony - Welcome and Introduction	
09:15	Pedro Miguel Echenique (DIPC, Spain) Surface Attophysics	P
10:00	Avelino Corma (ITQ – CSIC / UPV, Spain) Nanopores such as molecular sieves, catalysts and containers	P
10:45	Coffee Break - Poster Session & Exhibition	

TUESDAY MARCH 13, 2018

11:30	Robert Westervelt (Harvard University, USA) STC for Integrated Quantum Materials Quantum Information Science & Technology	K
12:00	Elad Gross (The Hebrew University of Jerusalem, Israel) High spatial resolution mapping of catalytic reactions on single nanoparticles	K
12:30	Pascal Larregaray (CNRS / Université Bordeaux-ISM, France) Elementary reactivity at the nanometer scale: the abstraction of atoms from metal surfaces	K
13:00	Lunch	
14:30	Liraz Chai (The Hebrew University of Jerusalem, Israel) A bottom-up view at the aggregation of a bacterial functional amyloid protein	K
15:00	Mihaela Delcea (University of Greifswald, Germany) Nanotools to understand why proteins and nanoparticles induce an immune response	K
15:30	Monica Carril (CIC biomaGUNE, Spain) In situ detection of the protein corona in complex	O
15:45	Oihane Ibarrola (Praxis Pharmaceutical, Spain) NoCanTher: Nanomedicine Upscaling for Early Clinical Phases of Multimodal Cancer Therapy	O
16:00	Roberto de la Rica (Universitat de les Illes Balears, Spain) Reconfigurable Assemblies of Plasmonic Nanoparticles and Proteins for Biosensing	O
16:15	Coffee Break - Poster Session & Exhibition	
16:45	Parallel Session 1 - Seniors	
16:45	Parallel Session 2 - Seniors	

TUESDAY MARCH 13, 2018

Parallel Session 1 - Seniors

16:45	Angel Del Pozo (Biopraxis Research AIE, Spain) Smart multifunctional GLA-nanoformulation for treating Fabry disease	○
17:00	Joan Josep Carvajal Marfí (Universitat Rovira i Virgili, Spain) SWIR luminescence nanothermometry for biomedical applications	○
17:15	Rameez Ahmad (Nanoscribe GmbH, Germany) Spectrum of applications of world's highest resolution micro 3D printer: from research to industry	○
17:30	Roberto D'Agosta (Ikerbasque and UPV/EHU, Spain) Magnetism in Pt nanoclusters	○
17:45	Montserrat Rivas (Universidad de Oviedo, Spain) Designing and reading magnetic lateral flow strips for point-of-use food and clinical applications	○
18:00	Gerald Kada (Keysight Technologies, Austria) Monitoring Electrochemical Processes in a Safe Environment – from Metal Layers to Batteries	○
18:15	Ana Gomez (International Iberian Nanotechnology Laboratory, Portugal) Simultaneous advanced microscopies for cellular dynamics	○
18:30	Andres Gomez Rodriguez (ICMAB-CSIC, Spain) Disclosing piezogeneration at the nanoscale with Direct Piezoelectric Force Microscopy	○
18:45	Edmund Leary (University of Liverpool, UK) Detecting mechanochemical atropisomerization within an STM breakjunction using porphyrins	○
19:00	Maria Dolores Romero (IMNR, Romania) Sol-Gel Microencapsulation of NaNO_3 as Phase Change Material for Thermal Energy Storage	○

Parallel Session 2 - Seniors

16:45	Amir Gheisi (SpringerNature, Germany) How Nature Indexing Helps You Find Nanotechnology Literatures and Data Efficiently	○
17:00	Leire Gartzia-Rivero (University of the Basque Country (UPV/EHU), Spain) Anisotropic Photo-Patterning of Fluorescent Nano-Fibers on Isotropic Surfaces: Control of Orientation, Position and Color	○
17:15	Begoña Galindo (AIMPLAS, Spain) Low energy heating system based on Joule effect for electric vehicles	○
17:30	Juan Francisco Gonzalez Martinez (Malmö University, Sweden) Humidity can induce phase transitions of surfactants embedded in latex coatings which can drastically decrease their performance	○
17:45	Dietmar Leinen (University of Malaga, Spain) Ag-ZrO ₂ cermet coatings sprayed onto steel sheet	○
18:00	Leire Ruiz Rubio (University of The Basque Country, Spain) Polyoxometalate-chitosan nanogels for breast cancer therapies	○
18:15	Rebeca Sola-Llano (University of the Basque Country, Spain) MgAPO-based nanostructured materials: in the search of one-directional antenna systems	○
18:30	Cristina Vicente Manzano (EMPA, Switzerland) Controlling Colour and Effective Refractive Index of Metal-Anodic Aluminium Oxide-Al Nanostructures: Morphology of AAO	○
18:45	Javier Junquera (Universidad de Cantabria, Spain) Second-Principles Density Functional Theory: A systematically improvable multi-scale method including electrons and lattice degrees of freedom	○
19:00	Kaddeche Mourad (Université de Djilali Bounaâma- Khemis miliana, Algeria) Simulation of nanoscale AlGaIn/GaN high -electron mobility transistors employing field-plate structure	○

WEDNESDAY MARCH 14, 2018

09:00	Luis Sanz Tejedor (OEPM, Spain) Nanotechnology and the Patent System	I
09:30	Maria Jadraque (PONS IP, Spain) Patent protection of nanomaterials and nanotechnology related inventions	I
10:00	Iain Alisdair McGeoch (ABG Patentes S.L., Spain) Patenting Nanotechnology	O
10:15	Miren P. Cajaraville (University of the Basque Country, Spain) Exploring the potential of graphene nanomaterials as carriers for oil compounds: an in vitro toxicity approach	O
10:30	Celina Vaquero (TECNALIA, Spain) Ensuring safety when scaling-up nano-based processes: the case of printed electronics	O
10:45	Arantxa Ballesteros (ITENE, Spain) Toxicological profile assessment of ENMS for polymer industry in the context of NanoDesk SUDOE project	O
11:00	Coffee Break - Poster Session & Exhibition	
11:30	Pablo Ordejón (ICN2, Spain) Layered and 2D materials: electronic properties and structural instabilities from first principles	K
12:00	Stephan Roche (ICREA/ICN2, Spain) 2D materials for Spin/Valleytronics: Theoretical Perspective	K
12:30	Jean-Christophe Charlier (UCL, Belgium) Electronic and optical properties of strained graphene and borophene	K
13:00	Lunch	
Parallel Session 1 - PhD Students		
Parallel Session 2 - PhD Students		
16:30	Coffee Break - Poster Session & Exhibition	
17:00	Victor Puentes (ICN2, Spain) CeO ₂ nanoparticles as safe CT X-ray contrast imaging agents	K
17:30	Danny Porath (The Hebrew University of Jerusalem, Israel) Novel DNA-Based Molecules and Their Charge Transport Properties	K
18:00	Silvia Hernández Ainsa (University of Zaragoza, Spain) Controlling photoacoustics enhancement with DNA nanostructures	O
18:15	Pablo Botella Asuncion (Instituto de Tecnología Química (UPV-CSIC), Spain) Mastering Contrast Agents in a Single Structure for T ₁ -T ₂ Dual Magnetic Resonance Imaging	O
18:30	Juan Gallo (INL, Portugal) Tunable performance of manganese oxide nanostructures as MRI contrast agents	O
18:45	Ana García Sanz (Vall d'hebron Research Institute, Spain) CeO ₂ nanoparticles as safe CT X-ray contrast imaging agents	O
19:00	Gunther Van Kerckhove (OCSiAl Europe Sarl, Luxembourg) Health, safety & environmental issues	O
19:15	Carlos Fito (ITENE, Spain) NanoMONITOR- A new real-time monitoring system to support the risk assessment of ENMs under REACH	O

WEDNESDAY MARCH 14, 2018

Parallel Session 1 - PhD Students

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

Parallel Session 2 - PhD Students

14:30	Anibal Pacheco (Technische Universitaet Dresden, Germany) Device design parameters for carbon nanotube field-effect transistors	○
14:45	Carlos Doñate Buendía (Universidad Jaume I (UJI), Spain) Carbon Quantum Dots Fluorescent Labels Generated by Continuous Laser Fragmentation	○
15:00	Sandra Ruiz-Gomez (Universidad Complutense de Madrid, Spain) 3D magnetometry in ultrathin magnetite using XMCD-PEEM	○
15:15	Roberto María Hormigos (Universidad de Alcalá, Spain) Surfactant-free β -galactosidase micromotors for "on-the-move" lactose hydrolysis	○
15:30	Berta Díez Odriozola (Alcalá University, Spain) Anti-(bio)fouling Thin-Film Composite Membranes by Polyacrylic acid/Poly(vinyl alcohol) Layer	○
15:45	Honorio Salmerón Valdivieso (Universidad de Granada, Spain) Interpretation and applicability of parallel superposition rheology techniques on liquid like flocculated hard sphere dispersions	○
16:00	Gunnar Klös (Aarhus University, Denmark) Chiral gold nano-hooks for increased LSPR sensitivity	○
16:15	Chen Chen (UC Berkeley, USA) Local Electronic Structure of a Single-Layer Porphyrin-Containing Covalent Organic Framework	○

THURSDAY MARCH 15, 2018

09:00	Joaquín Fernández-Rossier (INL, Portugal) Van der Waals spintronics with magnetic 2D crystals	K
09:30	Rodolfo Miranda (IMDEA-Nanociencia, Spain) Emergent Spin-Orbit Related Phenomena in Intercalated Graphene	K
10:00	Andres Ayuela (DIPC, CFM, Spain) Layertronics – the layer localization control of topological states in bilayer graphene with a gate voltage s	O
10:15	Nerea Bilbao (KU Leuven, Belgium) New approaches towards surface-supported two-dimensional covalent organic frameworks	O
10:30	Coffee Break - Poster Session & Exhibition	
11:00	JingCheng Li (nanoGUNE, Spain) Elementary Phenomena in Hybrid Graphene Nanoribbons on Surfaces	K
11:30	Ariel Ismach (Tel Aviv University, Israel) Graphene and Beyond: Synthesis and Characterization of Atomic-Films	K
12:00	Alain Pénicaud (CNRS / Université Bordeaux-I, France) Sustainable carbon: graphene water, nanotube water and ecofriendly conducting rubbers, electrocatalysts and supercapacitors	K
12:30	Eric Anglaret (Université Montpellier, France) Optical spectroscopy signatures of single walled carbon nanotubes dispersed in degassed water without additives	O
12:45	Antonio Cid Samamed (Universidad de Vigo, Spain) Redispersion and Self-Assembly of C ₆₀ Fullerene in Water and Toluene	O
13:00	Lunch	
14:30	Marc Chaigneau (HORIBA Scientific, France) Nanoscale Chemical and Electronic Mapping of Carboxyl Graphene Oxide using TERS	K
15:00	Haldun Sevincli (Izmir Institute of Technology, Turkey) Tuning phonon thermal transport through graphene by using ensembles of molecular antiresonances	O
15:15	Aran García-Lekue (DIPC, Spain) Novel Electronic States in Graphene Nanostructures	I
15:45	Mads Brandbydge (Technical University Denmark, Denmark) Transport in and into graphene: Insights from transport calculations	K
16:15	Coffee Break - Poster Session & Exhibition	
17:00	Teófilo Rojo (CIC energiGUNE, Spain) Nanomaterials for Energy Storage	K
17:30	Antonio Ladron de Guevara (ISOM-UPM, Spain) Laser-reduced graphene for energy storage devices	O
17:45	Zeynep Karahaliloglu (Aksaray University, Turkey) Nano/Microlayer Hemostatic Agents in Diabetic Injury Wound Model in Rat	O
18:00	Carmen Mijangos (CSIC/ICTP, Spain) Challenges in polymer nanotechnology applications: patterning strategies and polymer confinement effects	K
18:30	Closing	

THURSDAY MARCH 15, 2018

11:30	Remi Carminati (Langevin Institute - ESPCI, France) Probing mode connectivity in photonics using two classical or quantum nanosources	K
12:00	Martin Lopez Garcia (International Iberian Nanotechnology Laboratory, Portugal) Photosynthetic photonic crystals: photonic aspects of the ultimate light harvesting process in nature	O
12:15	Nicolas Ubrig (University of Geneva, Switzerland) Microscopic Origin of the Valley Hall Effect in Transition Metal Dichalcogenides	O
12:30	Camilla Dore (ICMAB, Spain) Cellulose based photonic architectures	O
12:45	María Ujué González (Instituto de Micro y Nanotecnología, IMN-CNM, CSIC, Spain) Photonic applications of nanocolumnar Au films obtained by glancing angle deposition with magnetron sputtering	O
13:00	Lunch	
14:30	Javier Aizpurua (CSIC-UPV/EHU, Spain) Driving Plasmon-Enhanced Molecular Spectroscopy to the Atomic Scale	K
15:00	Peter Kovac (DIPC, Spain) Insights into nanoplasmonics from first-principles time-dependent density functional simulations	K
15:30	Tânia Ribeiro (Instituto Superior Técnico, Portugal) Incorporation of plasmonic nanoparticles in organic photovoltaic solar cells	O
15:45	Nerea Zabala (UPV/EHU, Spain) Plasmonic nanoantennas for nanometer, picosecond control of VO ₂ phase-transition	O
16:00	Jon Lafuente-Bartolome (University of the Basque Country (UPV/EHU), Spain) Spin plasmons at surfaces with strong spin-orbit coupling	O
16:15	Coffee Break - Poster Session & Exhibition	
17:15	Jean-Jacques Greffet (Institut d'Optique Graduate School, France) Quantum plasmonics	K
17:45	Priscila Kosaka (IMM-CNM-CSIC, Spain) Hybrid optoplasmonic and nanomechanical sensor for proteomics	I

WEDNESDAY MARCH 14, 2018

09:00	Jouni Ahopelto (VTT, Finland) Nanostructures for Phononics	K
09:30	Daniel Lanzillotti Kimura (C2N-CNRS, France) Ultrahigh Frequency Phononics and Mechanics	K
10:00	Omar Ortiz (C2N, France) Nanophononic Potentials Based on Band Engineering	O
10:15	Jeremie Maire (ICN2, CSIC and BIST, Spain) Nanocrystalline silicon optomechanical cavities	O
10:30	Soren Stobbe (Niels Bohr Institute, University of Copenhagen, Denmark) Exciton-phonon interaction in coupled quantum wells: optical refrigeration and optomechanics	K
10:45	Coffee Break - Poster Session & Exhibition	
11:30	Ewold Verhagen (AMOLF, The Netherlands) Nonlinear and pulsed optomechanical measurement in sliced photonic crystal nanobeams	K
12:00	Daniel Navarro-Urrios (ICN2, Spain) Nonlinear dynamics and chaos in Optomechanical nanobeams	K
12:30	Clivia Sotomayor Torres (ICREA/ICN2, Spain) Phonon-mediated Nanoscale Thermal Transport	K
13:00	Lunch	
14:30	Alessandro Pifanti (NEST, CNR-Nano, France) Silicon nitride membranes: jack of all electromechanical trades	K
15:00	Daniel Torrent (Universitat Jaume I, Spain) Control of Lamb Waves by Phononic Plates	O
15:15	Alvaro Blanco (Instituto de Ciencia de Materiales de Madrid, Spain) Tunable Fano Resonances in Colloidal Photonic Structures	O
15:30	Pau Molet (ICMAB, Spain) Ultrathin Semiconductor Superabsorbers from the Visible to the Near Infrared	O
15:45	Guillermo Arregui Bravo (ICN2, Spain) Anderson co-localization in GaAs/AlAs superlattices	O
16:00	Coffee Break - Poster Session & Exhibition	
16:30	Luis Liz-Marzan (CIC Biomagune, Spain) Sharpening Plasmon Resonances in Gold Nanorods	K
17:00	Alessandro Principi (School of Physics and Astronomy, UK) Low-loss bulk and edge plasmons in graphene heterostructures – a theoretical study	O
17:15	Cristiano Matricardi (Instituto de Ciencia de Materiales de Barcelona, Spain) Gold Nanoparticle-based supercrystals as Surface Enhanced Raman Scattering (SERS) substrates	O
17:30	Liberato Manna (IIT, Italy) Halide Perovskites Nanocrystals: Synthesis, Transformations and their Application in Devices	K
18:00	Adi Salomon (Bar-Ilan University, Israel) Nanoporous Metallic Networks: A New Class of Materials	K

THURSDAY MARCH 15, 2018

	Alexander Kotlyar (Tel Aviv University, Israel)	
09:00	Selective Photoinduced Eradication of Cancer Cells by DARPIn-Gold Nanoparticle Conjugates	K
	Uri Sivan (Technion - Israel Institute of Technology, Israel)	
09:30	The Last Nanometer – Deep Look into the Hydration Structure of DNA and Solid Surfaces Using Ultra-High Resolution AFM	K
	Raffaele Caroselli (Nanophotonics Technology Center, UPV, Spain)	
10:00	In-flow and in-continuum refractive index sensing using a highly sensitive porous silicon ring resonator	O
	David Martín-Sánchez (NTC-UPV, Spain)	
10:15	Development and experimental study of a porous silicon fiber-optic temperature sensing probe	O
	Ángela Ruiz Tórtola (Nanophotonics Technology Center, UPV, Spain)	
10:30	Photonic Bandgap Biosensing Structures Biofunctionalized with Molecular Beacon Probes	O
10:45	Coffee Break - Poster Session & Exhibition	
	Maya Bar-Sadan (Ben-Gurion university of the Negev, Israel)	
11:30	Correlating the Structure of 2D Materials with Their Catalytic Activity	K
	Juan Carlos Cuevas Rodríguez (UAM, Spain)	
12:00	Super-Planckian Far-Field Radiative Heat Transfer	K
	Francisco J. García Vidal (UAM, Spain)	
12:30	Polaritons for Chemistry and Materials Science	K
13:00	Closing	

TUESDAY MARCH 13, 2018

11:30	Antonio Castro-Neto (NUS, Singapore) 2D Materials: science and technology	K
12:00	Xinliang Feng (TU-Dresden, Germany) Organic 2D Materials: Grand Challenges and Opportunities	K
12:30	Stijn Goossens (ICFO, Spain) Graphene as enabler for broadband image sensors integrated with CMOS and flexible platforms	I
12:50	Maria Paiva (University of Minho, Portugal) Flexible conductive adhesives based on PDMS	O
13:05	Lunch	
14:30	Francesco Bonaccorso (IIT-Graphene Labs / BeDimensional, Italy) Scaling up prospective for the production of graphene and other 2D crystals	K
15:00	Paolo Bondavalli (Thales Research & Technology, France) Graphene and related materials deposition by spray-gun deposition method. A versatile technique for a large panel of applications	K
15:30	Max Lemme (AMO GmbH, Germany) Towards Wafer Scale Integration of CVD Graphene and 2D Materials	K
16:00	Benjamin Huet (Université Catholique de Louvain, Belgium) Controlling the size, number of layers and planarity of CVD graphene single-crystals	O
16:15	Coffee Break - Poster Session & Exhibition	
17:15	Lucia Delogu (University of Trieste, Italy) Transcriptomic and single cell interaction properties of graphene in human primary immune cells	O
17:30	Alexander Botin (Institute of Chemical Physics, Russian Acad. of Sciences, Russia) PolyGraphene - Perspective Enterosorbent for Medical Toxicology. Preclinical Tests and Safety Assessment	O
17:45	Alicia de Andrés (CSIC, Spain) Biosensing and imaging with graphene-based platforms	O
18:00	Jérôme Borme (INL-International Iberian Nanotechnology Laboratory, Portugal) Lab-on-a-chip DNA sensor based on graphene electrolyte-gated field-effect transistors	O
18:15	Marina Ramal Sánchez (University of Teramo, Italy) Graphene oxide induces sperm release from bovine oviductal epithelial cells by modifying sperm membrane fluidity and binding proteins expression	O

TUESDAY MARCH 13, 2018

Parallel Session Characterization		
09:00	Peter Boggild (Technical University of Denmark, Denmark) Non-contact conductivity mapping of graphene: setting new standards	
09:20	Albert Redo-Sanchez (das Nano S.L., Spain) Onyx: A new Standard for 2D materials characterization	
09:40	Anil O. Yalcin (Thermo Fisher Scientific, The Netherlands) Damage free imaging of graphene: low kV, narrow energy spread and iDPC STEM	
10:00	Philip Schaefer (neaspec GmbH, Germany) Infrared nano-imaging and spectroscopy on graphene using scattering-type SNOM	○
10:15	Nicolas F. Martinez (Concept Scientific Instruments, Spain) Resistance and surface potential characterization of 2-d materials with atomic force microscopy	○
10:30	Holger Graef (Laboratoire Pierre Aigrain, France) Dirac Fermion Reflector as a Scattering Length Meter	○
10:45	Daena Madhi (DTU Fotonik, Denmark) Simulation and experimental investigation of 2D materials with far and near-field THz spectroscopy	○
11:00	Coffee Break - Poster Session & Exhibition	
Parallel Session Standardization & Production		
11:30	Felicien Schopfer (LNE, France) Graphene for quantum electrical metrology and the revised International System of units SI	
11:50	Andrew J. Pollard (National Physical Laboratory, UK) Standardisation of terminology and measurement for graphene and related 2D materials	
12:10	Félix Raso Alonso (Centro Español de Metrología, Spain) Towards the Standardization of Graphene: The Project GRACE	○
12:25	David Mackenzie (DTU Nanotech, Denmark) Quality Assessment of 2D Materials: continuity, uniformity and accuracy of mobility measurements	○
12:40	Siamak Eqtessadi (Abalonyx, Norway) Production of Nitrogen Doped Graphene Oxide	○
12:55	Lunch	

TUESDAY MARCH 13, 2018

Parallel Session Applications		
09:00	Amaia Zurutuza (Graphenea, Spain) Towards graphene applications in electronics	I
09:20	Valentino Libero Pio Guerra (UFCH JH, CAS, Czech Republic) Graphene as substrate for selective self-assembly of 2-D materials for optoelectronic applications	O
09:35	Neetu Prasad (Indian Institute of Technology Bombay, India) Bandgap tailoring of graphene oxide by electric field induced reduction: Applications to photonic micro devices	O
09:50	Alina Lyuleeva (Technical University of Munich, Germany) Functionalized and Oxidized Silicon Nanosheets for Sensors and Optoelectronics	O
10:05	Ibrahim Fakih (McGill University, Canada) pH Measurement with Large-Area Graphene Field-Effect Transistors at the Quantum Capacitance Limit	O
10:20	Juan Antonio Delgado Notario (University of Salamanca, Spain) Asymmetric dual grating gate graphene FETs for direct detection of Terahertz radiation	O
10:35	Sathya Narayanan Mathivanan (City, University of London, UK) Bilayer graphene electrooptic modulator with rib dielectric enhancing TE mode confinement	O
10:50	Aida Hichri (Faculté des Sciences de Bizerte, Tunisia) Binding energies of exciton complexes in two-dimensional transition metal dichalcogenide	
11:05	Coffee Break - Poster Session & Exhibition	
11:30	Julio Gomez (Avanzare, Spain) Relevance of an adequate selection of the graphene materials and processing conditions in the preparation of GRM composites	I
11:50	Cesar Merino Sanchez (Grupo Antolin Ingenieria, Spain) Prepreg formulation with graphene related materials	I
12:10	Silvia Gentiluomo (Istituto Italiano di Tecnologia - IIT, Italy) Unravelling the boron nitride flakes morphology to enhance polycarbonate performances	O
12:25	Adolfo Benedito (AIMPLAS, Spain) I Innovative solid sorbents based on modified graphene and MOF materials for CO ₂ capture	I
12:45	Helge Weman (NTNU & CrayoNano AS, Norway) Using graphene as epitaxial substrate and transparent electrode for AlGaIn UV LEDs	I
13:05	Lunch	

TUESDAY MARCH 13, 2018

Plenary Session		
14:30	Pedro Gomez-Romero (ICN2, Spain) Graphene Nanofluids- From Thermal to Electrochemical Applications	I
14:50	Francisco José Fernández-Carretero (Tecnalia, Spain) Hybrid 3D graphene materials for energy applications	I
15:10	Rune Wendelbo (Abalonyx, Norway) Upcoming applications of graphene oxide and graphene oxide derivatives	I
15:30	Andrea Ferrari (Cambridge Graphene Centre, University of Cambridge, UK) Title to be defined	K
16:00	Coffee Break - Poster Session & Exhibition	
	Nersik Margaryan (Armenian State Pedagogical University after Khachatur Abovyan, Armenia)	
16:30	Mathematical Calculation of Screened Coulomb Interaction Potential in Graphene	O
16:45	Daniel A. Solis (CEA/SPINTEC, France) Proximity Magnetoresistance on Graphene Induced by Magnetic Insulators	O
17:00	Elisseos Verveniotis (WPI-MANA, NIMS, Japan) Room temperature electronic localization in a single graphene layer on sapphire by He-ion irradiation	O
17:15	Mauricio Terrones (The Pennsylvania State University, USA) Defects in Metal Dichalcogenides: Effects in Catalysis & Optical Emission	K
17:45	Kostya Novoselov (NGI - The University of Manchester, UK) van der Waals Heterostructures	P
18:30	Closing	

WEDNESDAY MARCH 14, 2018

09:00	Karl S. Coleman (Durham University, UK) Structure Evolution and Control in Graphene Polymer Composites	K
09:30	Costas Galiotis (FORTH/ ICE-HT and University of Patras, Greece) Multi-functional CVD graphene/polymer nanolaminates	K
10:00	Manuel Belmonte (Institute of Ceramics and Glass (CSIC), Spain) Multifunctional ceramic/graphene composites	O
10:15	Sandra Hernandez Aldave (Swansea University, UK) Fabrication and characterisation of Ion conductive polymer - graphene nanoplatelets composite thin films	O
10:30	Azadeh Motealleh (Abalonyx, Norway) The potential of graphene oxide and reduced graphene oxide in fabrication of 3D printed ceramic and polymeric composites	O
10:45	Coffee Break - Poster Session & Exhibition	
11:30	Vincenzo Palermo (ISOF-CNR, Italy) Graphene-based materials for large-scale applications: ideal graphene vs. real commercial products	K
12:00	Robert Young (The University of Manchester, UK) The Mechanics of Reinforcement of Nanocomposites by 2D Materials	K
12:30	Mallika Bohm (Talga Technologies Ltd, UK) Talga: Emerging high quality scalable graphene supply; path to high performance low eco impact multi-functional product applications	I
13:00	Lunch	
14:30	Alain Dufresne (Grenoble INP-Pagora, France) Nanoparticles from biological source and polymer nanocomposites	K
15:00	Ana Beloqui (ICChanoGUNE, Spain) New biocatalytic composites assembled by metal ion coordination	O
15:15	Gianvito Caputo (Italian Institute of Technology, Italy) Sustainable long chain polyester bioplastics from tomato peel waste sources	O
15:30	Susana Guzman Puyol (Istituto Italiano di Tecnologia (IIT), Italy) All natural bioplastics from cellulose and cellulose-rich agro-wastes	O
15:45	Hugo Mora Sánchez (Instituto IMDEA Materiales, Spain) Microstructure and mechanical characterization of thin bioactive PEO coatings fabricated on UFG CP Ti	O
16:00	Giacomo Tedeschi (Istituto Italiano di Tecnologia - IIT, Italy) Sustainable fabrication of hydrophobic composite films inspired by plant cuticles	O
16:15	Coffee Break - Poster Session & Exhibition	
17:00	Daniele Cangialosi (CFM-UPV/EHU-CSIC, Spain) Accessing low energy glasses by polymer nanostructuring	K
17:30	Roy Shenhar (The Hebrew University of Jerusalem, Israel) Block Copolymer-Based Nanocomposite Films: Hierarchical Structures by Chemical Design	K
18:00	Jannick Duchet-Rumeau (IMP@INSA, INSA Lyon-GDR CNRS, France) Ionic Liquids: versatility and potential as interfacial agents for designing physicochemical interactions and tailoring morphology and properties of nanofilled polymers	K
18:30	Alexander Bismarck (University of Vienna, Austria) Title to be defined	K
19:00	Jose Covas (University of Minho, Portugal) Manufacture of electrically conductive PEEK filaments for 3D printing	O

THURSDAY MARCH 15, 2018

09:00	Nassia Athanassiou (Istituto Italiano di Tecnologia, Italy) Biocomposites in food packaging, water remediation and wound management	I
09:30	Maria Jorda Beneyto (ITENE, Spain) Modified nanoadditives for food packaging applications	I
10:00	David Mecerreyes (POLYMAT - UPV/EHU, Spain) Electroactive polymer composites for bioelectronics	I
10:30	Coffee Break - Poster Session & Exhibition	
11:00	Jose Maria Lagaron (IATA-CSIC, Spain) High Throughput Electrospinning and Electrospaying for the Design of Innovative Nanomaterials and Structures of Application Interest	K
11:30	Cristina Monteserin (IK4-TEKNIKER, Spain) Effect of different types of electrospun polyamide 6 nanofibres on the mechanical properties of a carbon fibre/epoxy composites	O
11:45	Vanessa Garcia (FIDAMC, Spain) Carbon fiber/graphene doped epoxy demonstrator for aeronautic applications	O
12:00	Anna Roig (ICMAB-CSIC, Spain) Bacterial Nanocellulose: Surface Microstructuration and Composites	I
12:30	Tamara Calvo-Correas (University of the Basque Country, Spain) Synergic effect of magnetite nanoparticles and cellulose nanocrystals on shape-memory behaviour	O
12:45	Antoine Charbonneau (Celluforce, Canada) Cellulose nanocrystals: a biomaterial with great potential	O
13:00	Pablo González Miguel (ITAINNOVA Instituto Tecnológico de Aragón, Spain) Smart nanomaterials with cellulosic matrix and magnetic properties	O
13:15	Lunch	
14:45	Ahmed Elmarakbi (University of Sunderland, UK) Graphene for Vehicles Prototype	I
15:15	Laura Campagnolo (Istituto Italiano di Tecnologia, Italy) Silk fibroin/orange peel composite foam: an efficient adsorbent material for water remediation	O
15:30	Kizkitza González Munduate (University of the Basque Country, Spain) Starch based 'click' cross-linked conductive nanocomposite hydrogels	O
15:45	Aleandro Antidormi (University of Cagliari, Italy) On the Nature of Microscopic Heat Carriers in Nano-Porous Silicon	O
16:00	Coffee Break - Poster Session & Exhibition	
16:30	Juan Jose Vilatela (IMDEA, Spain) Nanostructured fibres and fabrics for structural supercapacitor composites	I
17:00	Yogendra Kumar Mishra (Kiel University, Germany) Functional applications ZnO tetrapod nanomaterials made by flame transport synthesis	K
17:30	Miguel Angel López Manchado (ICTP - CSIC, Spain) Multifunctional Properties of Rubber Nanocomposites	I
18:00	Oleg Figovsky (Polymate Ltd. Israel) Green Nanotechnology: aims and expedients	K
18:30	Closing	

Presenting Author			Topic	Poster Title	No.
Adarraga	Olatz	Spain	Nanomaterials	<i>Micro-nanotextured omniphobic surfaces on aluminum and polymer</i>	15
Angulo	Mercedes	Spain	Nanophononics	<i>Curved Laser Traps for Optical Manipulation of micro- and nanoparticles</i>	44
Aran Ais	Francisca	Spain	Nanomaterials	<i>Microencapsulated natural antioxidants as depollutant materials</i>	16
Aranburu	Nora	Spain	Synthesis and Characterisation - Ceramic (CMC)	<i>Modification of graphene with ionic liquid to reduce the electrical percolation threshold in bio-based TPU nanocomposites</i>	53
Arbelaziz	Aitor	Spain	Synthesis and Characterisation - Green and Bio composites	<i>Mechanical Properties of Gelatin Reinforced with Nanocellulose</i>	52
Avilés González	María Dolores	Spain	Nanomaterials	<i>Graphene as lubricant additive of ionic liquids</i>	17
Ballesteros	Arantxa	Spain	Nanotoxicology and Nanosafety	<i>Sudoe NanoDesk Observatory on Nanotechnology Applications and Safety in the Plastic Sector</i>	41
Bilbao	Leire	Spain	Graphene & 2D Materials	<i>Thermal behaviour of screen-printed graphene</i>	1
Calogero	Gaetano	Denmark	Other	<i>Atomistic large-scale simulations of transport in ballistic graphene</i>	35
Charconnet	Mathias	Spain	Plasmonics	<i>Cosolvent-assisted assembly of nanoparticles into highly regular plasmonic arrays</i>	45
Corte	Paula	Spain	Nanomagnetism	<i>Engineering of magnetic properties of Co-rich microwires by Joule heating</i>	13
Ducourtieux	Sebastien	France	Other	<i>Towards characterization of graphene using hybrid metrology approach at LNE</i>	36
Egizabal	Ainhoa	Spain	Nanomaterials	<i>Risks derived from the use of nanomaterials in 3D</i>	18
Feijoo	Pedro Carlos	Spain	Graphene & 2D Materials Applications	<i>Investigation of high frequency performance of hBN encapsulated Graphene Field-Effect Transistors</i>	28
Fernández Romero	Ana María	Spain	NanoBiotechnology Nanomedicine	<i>Curcumin-in-epiβcyclodextrin double-loaded liposomes: selection of size reduction methodology</i>	3
Galindo	Begoña	Spain	NanoMaterials	<i>European Project JOSPEL develops low energy passenger comfort systems based on the Joule and Peltier effects</i>	19
García-Arribas	Aritz	Spain	Scanning Probe Microscopies (SPM)	<i>Long-chain unsaturated sphingolipids: a glimpse into lipid complexity through AFM, DSC and fluorescence</i>	42
García-Hevia	Lorena	Portugal	NanoBiotechnology Nanomedicine	<i>New magnetic nanocomposites for theranostic applications</i>	4
Gatões	Daniel	Portugal	Metamaterials	<i>Optimization of Selective Laser Melting parameters to produce small copper parts</i>	43

Presenting Author			Topic	Poster Title	No.
Gonzalo	Beatriz	Spain	Graphene & 2D Materials Energy	Carbon Nanofibers: new additive for the Negative Active Material of Lead Acid Batteries	34
Gutierrez Monasterio	Bingen	Spain	Graphene & 2D Materials Bio and Health	Reducing Graphene Oxide cytotoxic effects via lipid coating	33
Hamham	El Mokhtar	Spain	Graphene & 2D Materials Other	A Monte Carlo study of electronic transport in silicene: importance of out-of-equilibrium phonons	37
Herrero	José	Spain	Nanomaterials	Copper oxide thin films with high transparency and p-type conductivity	20
Ibarrola	Oihane	Spain	NanoBiotechnology Nanomedicine	NoCanTher: Nanomedicine Upscaling for Early Clinical Phases of Multimodal Cancer Therapy	5
Jiménez	David	Spain	Graphene & 2D Materials Applications	Electrostatics of atomically thin lateral heterojunctions	29
Karimi	Somayeh	Iran	Plasmonics	Plasmonic of Ultra-Small Gold Nanoparticles in Quantum Regime	46
Kotzianová	Adéla	Czech Republic	Nanomaterials	Cross-sectioning nanofibers and detecting additives	21
Lopez Fanarraga	Monica	Spain	NanoBiotechnology Nanomedicine	Carbon nanotube-based targeting systems for cytoplasmic delivery	6
Lúcio	Marlene	Portugal	NanoBiotechnology Nanomedicine	Biophysical toolbox for nanotherapeutics characterization	7
Mateos Medina	María del Rocío	Spain	Graphene & 2D Materials	Graphene dispersions in diluted ionic and nonionic surfactant aqueous solutions	2
Mavredakis	Nikolaos	Spain	Graphene & 2D Materials Other	Low frequency noise modelling in single-layer graphene FETs	38
Montoya Baños	Isaac	Spain	Nanomagnetism	Magnetic properties of thermally oxidized Co patterns	14
Moradi	Tara	Iran	Plasmonics	Franson Interference from the cascade transition in a quantum-dot-metal-nanoparticle hybrid system	47
Morales-Florez	Victor	Spain	Synthesis and Characterisation - Ceramic (CMC)	Intragranular reinforcement of alumina-based composites with carbon nanotubes via sol-gel	50
Navarro	Elena	Spain	NanoBiotechnology Nanomedicine	Versatile silica nanoparticle coating for intracellular and in vivo targeting analysis	8
Navio	Jose Antonio	Spain	Nanochemistry	Exploring the photo-catalytic properties of Nb2O5 nanoparticles synthesized by different procedures	12
Oliden Sánchez	Ainhoa	Spain	Nanomaterials	Improvement of NIR photophysical properties of a hemicyanine dye by its encapsulation within 1D-AlPO nanochannels	22
Orue	Ander	Spain	Applications - Packaging	Office Waste Paper as Cellulose Nanocrystal Source	49
Ospina Carvajal	Evelyn Julieth	Spain	NanoBiotechnology Nanomedicine	An amperometric biosensor for determination of heavy metal ions, based on a Thiolated DAB dendrimer to form self-assembled monolayers with Gold nanoparticles and HRP.	9
Pacheco Jerez	Marta	Spain	Nanomaterials	Magneto-catalytic graphene quantum dots Janus micromotors for bacterial endotoxin detection	23

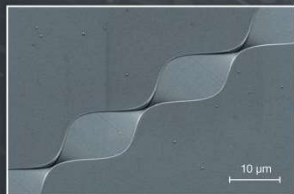
Presenting Author			Topic	Poster Title	No.
Palanco	Santiago	Spain	Nanomaterials	Open-atmosphere laser nanostructuring of silicon using a laser-induced plasma lens	24
Pasadas	Francisco	Spain	Graphene & 2D Materials Applications	Modeling of Metal-Insulator-Graphene-Metal diodes targeting RF applications	30
Piñero de los Ríos	Manuel	Spain	Synthesis and Characterisation - Ceramic (CMC)	Monolithic homogeneous silica-graphene oxide aerogels synthesised via pH-controlled rapid gelation	51
Popov	Michael	Russia	Nanomaterials	Self-organized dynamic ultradisperse structures on the interface in two-dimensional open system with first-order phase transition.	25
Rivero Buceta	Eva María	Spain	NanoBiotechnology Nanomedicine	Safety Delivery of Camptothecin: From Prodrugs to Nanomedicines	10
Romero	Maria Dolores	Romania	Graphene & 2D Materials Applications	MASTRO – Intelligent bulk Materials for a Smart Transport sector	31
Salvo	Ignacio	Spain	NanoBiotechnology Nanomedicine	Synthesis of cerium oxide nanoparticles for medical applications	11
Santamaria Echart	Arantzazu	Spain	Graphene & 2D Materials Other	Environmentally-friendly graphene-based waterborne polyurethane nanocomposites	39
Shivayogimath	Abhay	Denmark	Graphene & 2D Materials Production	Repeatable and non-destructive transfer of large-area graphene onto arbitrary substrates	40
Sierra Gómez	Tania	Spain	Nanomaterials	MWCNT scaffold films for total a1- acid glycoprotein determination in serum samples	26
Solís Cortés	Daniel	Spain	Nanomaterials	Influence of magnetron sputtering parameters on the properties of GIZO thin films.	27
Yedra	Angel	Spain	Composites Applications - Construction	Multifunctional nanocoating: hydrophobic and wear resistant properties	48
Zahid	Muhammad	Italy	Graphene & 2D Materials Applications	Enhancement of Gas Barrier and Mechanical Properties in Polymer Nanocomposites using 2D Materials	32

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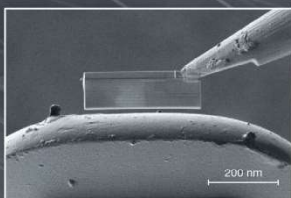
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