

SUNDAY 9TH		
16h00	REGISTRATION & OPENING	
17h30	Nazario Martín (Universidad Complutense, IMDEA Nanociencia)	OPENING
Chair: Nazario Martín		
18h00	EMILIO PÉREZ (IMDEA Nanociencia)	Mechanically Interlocked SWNTs for Superior Composites
19h00	MARÍA NIEVES LÓPEZ (Paderborn University)	New highly doped carbonaceous materials for electrochemical energy storage and electrocatalysis
20h00	Reception cocktail PALACIO CONDES DE VALDEPARAÍSO	

MONDAY 10TH		
Chair: Emilio Pérez		
9h00	MICHELE PAVONE (Università degli Studi di Napoli Federico II)	Multiscale Modelling of Heterogeneous Functional Materials for Energy Conversion and Storage: Challenges and Perspectives
10h00	Enrique Ortí Guillén (Universitat de València, Instituto de Ciencia Molecular-ICMol)	Hole-Transporting Materials for Perovskite Solar Cells. A Theoretical insight into Chemical Design and Charge Transport
10h30	Thomas M. Hermans (IMDEA Nanociencia)	Fluidics without solid walls
11h00	Coffee break	
Chair: Enrique Ortí		
11h30	José Luis Jorcano (Universidad Carlos III de Madrid)	Skin bioengineering: from laboratory to clinic to industry
12h00	Mónica Giménez Marqués (Universitat de València, Instituto de Ciencia Molecular-ICMol)	Engineering hybrid porous structures at the nanoscale for advanced functionalities
12h30	María Ángeles Herranz (Universidad Complutense)	Chemical approaches to nanoscale carbon materials for electronic and biomedical applications
13h00	Aran García-Lekue (Donostia International Physics Center-DIPC)	Engineering quantum electronic transport in carbon-based nanoarchitectures
14h00	Lunch PALACIO CONDES DE VALDEPARAÍSO	
Chair: Michele Pavone		
16h00	JOSÉ SÁNCHEZ COSTA (IMDEA Nanociencia)	Switchable Materials: The Versatility of Spin Crossover Compounds
17h00	Emigdio Chávez-Ángel (Instituto Catalán de Nanociencia y Nanotecnología-ICN2)	Thermal Properties Across 2D-Layered Materials
17h30	Imán Mattar (Instituto de Nanociencia y Materiales de Aragón-INMA)	Antimicrobial eluting 3D printed wound dressings for treating topical bacterial infections
	Lorenzo Capone (IMDEA Nanociencia)	Design and synthesis of a molecular nanographene exhibiting sharp aggregation-induced emission
	Sergio Ruiz Gamarra (Instituto de Ciencia Molecular (ICMol), Universitat de València)	Rational use of supermolecular building layer approach (SBL) for unravel new topologies
18h00	Coffee break	
Chair: Antonio M. Rodríguez		
18h30	Fernando Carrascosa (Universidad de Castilla-La Mancha)	Supercritical Technology for the Fabrication of Reinforced Biocompatible Scaffolds Designed for Next-Generation Bone Regeneration
	Elena Vicente (Instituto de Tecnología Química-ITQ-UPV-CSIC)	SAXS/WAXS as an innovative tool for the in-situ study of Ni nanoparticle growth in perovskites

	Paula Novella-Rodríguez (Instituto de Nanociencia y Materiales de Aragón-INMA)	Chemical approaches for modulating the antimicrobial activity of polyoxometalate-polypeptide hybrids
	Dounia Elbasyouni (Universidad de Castilla-La Mancha)	Shape-Stabilized Phase Change Materials incorporated in building materials for Thermal Conductivity enhancement
	Irene Lamata-Bermejo (Paderborn University)	Green synthesis of nitrogen-doped carbon materials for energy storage
	María Dolores Seva (Instituto de Tecnología Química-ITQ-UPV-CSIC)	Transition metal nanoparticle-based catalysts for ammonia synthesis
	Alicia Morcillo (Universidad de Castilla-La Mancha, IRICA)	Autonomous Self-Healing Hydrogel with Recycling Capability for Sustainable Soft Robotics
	Carlos Martín (Universidad de Castilla-La Mancha)	Perovskites as Catalytic Precursor for Hydrogen Production from Ammonia
	Jorge Gómez (IMDEA Nanociencia, Universidad Complutense)	Tailored design of new chalcogen-based spiro hole-transporting materials for Perovskite solar cells
	José Manuel Moreno del Río (Universidad de Castilla-La Mancha, IRICA)	Synthesis of 2D metallic hybrid nanomaterials
	Álvaro García (Universidad de Castilla-La Mancha, ETSII)	Scalable Fabrication of Graphene-Reinforced Cordierites for Aerospace Applications
20h30	Guided city tour (Dep. Palace C. Valdeparaiso)	
21h30	Dinner Castillo Gastro Bar	

TUESDAY 11TH		
Chair: María Ángeles Herranz		
9h00	JOSÉ RAMÓN GALÁN (Instituto Catalán de Investigación Química-ICIQ- CERCA, ICREA)	Advanced materials for the energy transition: Renewable fuels and chemicals
10h00	Carlos Martí-Gastaldo (Universitat de València, Instituto de Ciencia Molecular-ICMol)	Adaptive Frameworks: Controlling Response in Porous Crystals
10h30	María Pilar Pina (Instituto de Nanociencia y Materiales de Aragón-INMA)	Nanostructured Materials for SERS based Gas Sensing
11h00	Coffee break	
Chair: Carlos Martí-Gastaldo		
11h30	María Balaguer Ramírez (Instituto de Tecnología Química-ITQ-UPV-CSIC)	Modulation of the redox properties of solid state materials for energy storage: low temperature electrodeless reactions in a microwave reactor
12h00	Mario Gutiérrez Tovar (Universidad de Castilla-La Mancha)	Luminescent Metal-Organic Frameworks for Photonic Applications
12h30	Alba Garzón Manjón (Instituto Catalán de Nanociencia y Nanotecnología-ICN2)	In-situ analysis of Energy Materials by (Scanning) Transmission Electron Microscopy
13h00	Juan Fco. Sánchez Royo (Instituto de Ciencia de Materiales -ICMUV, Universitat de València)	Challenges & Perspectives of 2D Perovskites for optoelectronic applications
14h00	Lunch PALACIO CONDES DE VALDEPARAÍSO	
Chair: Marco Pelin		
16h00	MARÍA JESÚS VICENT (Centro de Investigación Príncipe Felipe - CIPF)	Rational design of Polypeptide-based Nanomedicines

17h00	Isabel Torrejón (Universidad de Castilla-La Mancha)	<i>The influence of air-cathode microbial fuel cells on electrogenic bacteria from wastewater sludge</i>
	Esther Cañadilla (Universidad de Castilla-La Mancha)	<i>Isolation of bacteria with electrogenic activity from wastewater sludge</i>
	Carol Ramos-Vera (Instituto de Nanociencia y Materiales de Aragón-INMA)	<i>Hydrothermal synthesis of silver nanoparticles and their application as a functionalizing agent for chitosan-vanillin packaging</i>
	David Tilve-Martinez (IMDEA Materiales)	<i>Liquid Crystal route for Silicon Nanowires: Stabilization and Self-Assembly of Oriented Macrostructures</i>
	Carlos Martín Andreu (Universidad de Castilla-La Mancha, IRICA)	<i>Enhancing Thermogalvanic Efficiency through Electrostatic Interaction in Cationic Hydrogels</i>
	Yasmina Berruga (Universidad de Castilla-La Mancha)	<i>Development of Supramolecular Materials from Aromatic Dipeptides for 5G Optical Waveguide Applications</i>

18h00 Coffee break

Chair: Daniel Iglesias

18h30	Marta María González-Barrios (Universidad Complutense)	<i>Towards rapid and sustainable preparation of SnQ (Q = S, Se) for thermoelectric and electrochemical applications</i>
	Juan Alcaide (Universidad de Castilla-La Mancha, IRICA)	<i>Rheological study and 3D printability of graphene-enhanced hydrogels</i>
	José Troya (Universitat de València, Instituto de Ciencia Molecular-ICMo)	<i>Tuning Magnetic and Quantum Properties in Oxalate- and Anilate-Based Coordination Networks</i>
	Alejandro Gómez-González (Universidad de Zaragoza, INMA, LMA)	<i>Co-based deposits grown by Cryo-FEBID for large-area molecular electronic devices</i>
	Alberto Lafuente (Universidad de Zaragoza, INMA)	<i>Advanced Carbon Paste Engineering for Next-Generation Perovskite Solar Cells</i>
	Laura López (Universidad de Castilla-La Mancha, IRICA)	<i>Innovative Hydrogel Scaffolds for New Possibilities in Reproductive Biotechnology</i>
	Isabel Vidal Barreiro (Universidad de Castilla-La Mancha)	<i>New Bifunctional Graphene-based Catalyst as Cathode in Biomass Electrolysis: Development and Optimization</i>
	Kateryna Domina (Donostia International Physics Center-DIPC)	<i>Graphene-based room-temperature IR detector for phonon-enhanced near-field molecular sensing</i>
	María Paz García (Universidad de Castilla-La Mancha)	<i>Carbon nanohorns with unique Raman fingerprints towards imaging and security applications</i>
	Ying Pan (Paderborn University)	<i>Efficient piezocatalytic hydrogen and hydrogen peroxide production from water over Tin doped carbon nitride</i>
	Yessenia Falconi (Universidad de Zaragoza, INMA, LMA)	<i>Nanoarchitectonics for applications in molecular electronic devices</i>

21h00 Dinner Castillo Gastro Bar

WEDNESDAY 12TH

Chair: Eugenio Coronado

9h00	MARISOL MARTÍN GONZÁLEZ (Instituto de Micro y Nanotecnología-CSIC)	<i>Exploring the optics, magnetism and energy harvesting applications of metamaterials prepared with three-dimensional porous alumina</i>
10h00	SAMUEL MAÑAS-VALERO (Delft University of Technology)	<i>Tailoring spins in low-dimensional systems</i>

11h00 Coffee break

Chair: María Jesús Vicent		
11h30	Carlos Romero Nieto (Universidad de Castilla-La Mancha, IRICA)	Advanced Phosphorus Heterocycles for Controlling 3D Nanomaterials
12h00	Alejandro Criado (Universidade da Coruña)	Empowering detection in graphene field effect transistors: the key role of chemistry
12h30	María del Carmen Ruiz Delgado (Universidad de Málaga)	Evaluating the Structural and Electronic Properties of 1D and 2D Conjugated Polymers
13h00	Juan Pedro Fernández-Blázquez (IMDEA Materiales)	The role of the Advanced Characterization in the Polymer Composite Development
14h00 Lunch PALACIO CONDES DE VALDEPARAÍSO		

Chair: Juan Pedro Fernández-Blázquez		
16h00	JUAN JOSÉ VILATELA (IMDEA Materiales)	Assembly and large-scale application of nanomaterials as the polymers of the 21st century
17h00	Abelardo Sánchez-Oliva (Universidad de Castilla-La Mancha, IRICA)	$T_hC_2T_x$ MXenes Functionalization with a Silanol Derivative for Energy Storage Applications
	Fanni Fekacs (Center for Research in Biological Chemistry and Molecular Materials - CiQUS)	Temperature-dependent photoluminescence of trioxoazatriangulenes
	Dayra Riaño-Núñez (Instituto mixto CSIC-UNIZAR de Nanociencia y Materiales de Aragón, LMA)	Thin films of dipyrindines with potential use in molecular thermoelectrics
	Gerliz M. Gutiérrez-Finol (Instituto de Ciencia Molecular-ICMol, Universitat de València)	A scalable kinetic Monte Carlo platform enabling comprehensive simulations of charge transport dynamics in polymer-based memristive systems
	Pablo Ruiz-Bozal (Universidad de Zaragoza, INMA)	Synthesis and characterization of Antimicrobial Materials Based on Copper Sulphides
Iván Gómez-Muñoz (Universitat de València, Instituto de Ciencia Molecular-ICMol)	Implementing magnetic properties on demand with a dynamic Lanthanoid- Organic Framework	
18h00 Coffee break		

Chair: Cristina Martín		
18h30	Eva Díaz-Hernández (Universidad de Castilla-La Mancha, IREC, IRICA)	Hyaluronic acid-alginate hydrogels preserve ram sperm motility at room temperature until 24 hours
	Victoria Axelrad (Universidad de Castilla-La Mancha)	3D-Printed Bone Implants and Their Susceptibility to Microbial Colonization
	Andrés Mora Martínez (Universitat de València, Instituto de Ciencia Molecular-ICMol)	Kinetic Montecarlo Simulation to study Chiral Induced Spin Selectivity (CISS) effect
	Jesús M. Fernández-García (Universidad Complutense)	Donor-Acceptor Bilayer Spironanographene: Electron-Transfer Driven by Structural Effects
	Juan Ignacio Ocaña-Parral (Universidad de Zaragoza, INMA)	Efficient Metallic Micro-Structures Fabrication Based on Focused Ga ⁺ Beam Irradiation of Silver Butyrate Spin-Coated Films
	Christian Rodríguez (Instituto de Ciencia Molecular (ICMol), Universitat de València)	Enhancing the structural robustness of metal-organic cages based on oxodimolybdenum clusters
19h30	THEATER CORRAL DE COMEDIAS DE ALMAGRO	
21h00	TAPAS AROUND ALMAGRO	

THURSDAY 13TH		
Chair: Marisol Martín		
9h00	INES C. GONÇALVES (Instituto de Engenharia Biomédica/ Instituto de Investigação e Inovação em Saúde- INEB/i3S)	Advanced biomaterials and medical devices for cardiovascular and antimicrobial applications

10h00	DULCE BELO (Technical University of Lisbon - UTL)	Molecular Materials: Pushing Boundaries in Magnetism and Electrical conductivity
11h00 Coffee break		
Chair: Alejandro Criado		
11h30	Gemma Herranz (Universidad de Castilla-La Mancha)	From powder to product: cutting edge advances in injection moulding and additive manufacturing for industry applications
12h00	Roberto Campana Prada (Centro Nacional del Hidrogeno- CNH2)	Hydrogen research activities at CNH2
12h30	Víctor de la Peña (IMDEA Energía)	Catalyzing Change: The Role of Solar-chemistry technologies in the sustainable energy development
13h00	Marc Coronado-Puchau (Universitat de València, Instituto de Ciencia Molecular-ICMol)	Hybrid Nanoparticles for Biomedical Applications
14h00 Lunch PALACIO CONDES DE VALDEPARAÍSO		
Chair: María Antonia Herrero		
16h00	MARCO PELIN (Università degli Studi di Trieste)	Nanosafety assessment: a focus on 2D materials
17h00	Alejandro Regueiro (Universitat de València, Instituto de Ciencia Molecular-ICMol)	Magnetic studies of chiral complexes on silver surfaces
	Patricia Jiménez-Hernández (IMDEA Nanociencia)	2D Lanthanide MOFs Composites
	José García-Delgado (Universidad de Castilla-La Mancha)	Design and Adaptive Control of a Low-Cost Flexible-Finger Robotic Gripper with Gel-Based Sensing for Grasping Fragile Object
	José Tomás Hernández-Rodríguez (Universidad de Castilla-La Mancha)	Development of compatible Polymer Particles for Improved Bilirubin Removal in Hyperbilirubinemia Treatment
	Alexandra Glass (Paderborn University)	CsCl-induced porosity tuning in porous carbonaceous materials for sustainable applications
	Antonio Largo-Barrientos (Universidad de Valladolid, CellMat)	
18h00 Coffee break		
Chair: Sonia Merino		
18h30	Ricardo Negrete Gallego (Universidad de Castilla-La Mancha)	How to customize hydrogel properties for a desired application? An interactive app for practitioners
	Abdenbi Cherkaoui (Universidad de Zaragoza, INMA)	Advances in sodium-ion batteries: INNaSYTE Project
	Alonso Arteaga (Universidad de Castilla-La Mancha, ETSII)	Challenges of material extrusion 3D printing technology for producing advanced meso-structured steels with improved properties
	Leticia Sánchez-Uriel (Universidad de Zaragoza, INMA, Instituto de Salud Carlos III)	Chalcopyrite as a safe heterogeneous catalyst in the tumor environment
19h30	Closing & Awards	
21h00 GALA DINNER at PARADOR Nacional de ALMAGRO & FIESTA		