

Spotlight
POLYMAT

San Sebastián, 11th-14th June 2024

Tuesday 11 th June 2024		
14:00 - 15:30	Registration	
15:30 - 16:00	Opening	
Chair	David González-Rodríguez	
16:00 - 17:00	Hanadi Sleiman <i>Plenary Lecture</i>	<i>DNA self-assembly: From pathway complexity to drug delivery</i>
17:00 - 18:00	Takuzo Aida <i>Plenary Lecture</i>	<i>Dynamic Materials by Supramolecular Polymerization</i>
18:00	Welcome Cocktail	

Wednesday 12 th June 2024		
Chair	Diego Peña	
09:00 - 10:00	Luisa De Cola <i>Plenary Lecture</i>	<i>From small molecules to aggregates. Emerging properties and functions</i>
10:00 - 10:15	José Sánchez Costa <i>Contributing Lecture</i>	<i>Designing Optical Air Quality Sensors based on Lanthanide Luminescent Metal-Organic Frameworks</i>
10:15 - 10:30	David Curiel <i>Contributing Lecture</i>	<i>Supramolecular Bottom-Up Approach to 2D and 3D Hydrogen-Bonded Organic Frameworks.</i>
10:30 - 11:00	Hiroyuki Isoe <i>Keynote Lecture</i>	<i>Phenine Nanocarbon Molecules</i>
11:00 - 11:45	Coffee Break	
Chair	Emilio Pérez	
11:45 - 12:15	Chunyan Chi <i>Keynote Lecture</i>	<i>π-Structures with Different Topologies: Synthesis, Aromaticity and Electronic Properties</i>
12:15 - 12:30	Diego Peña <i>Contributing Lecture</i>	<i>Exploring challenges and opportunities in on-surface synthesis of nanographenes</i>
12:30 - 12:45	Wojtek Stawski <i>Contributing Lecture</i>	<i>Facts, Myths and Sandwiches: Anions of [18]Annulene</i>
12:45 - 13:00	Jordi Poater <i>Contributing Lecture</i>	<i>Boron Extension Drives to the Facile Construction of New Hybrid Conjugated Materials</i>
13:00 - 13:30	Qian Miao <i>Keynote Lecture</i>	<i>N-Heteroacene Based Electronic Materials and Molecular Architectures</i>
13:30 - 15:30	Lunch	
Chair	Manuel Mellé-Franco	
15:30 - 16:00	Yan Xia <i>Keynote Lecture</i>	<i>May the Force Be With the Molecules: Designing Force-Induced Molecular Reactivities and Materials</i>
16:00 - 16:15	Kunal Mali <i>Contributing Lecture</i>	<i>To bind or not to bind: Donor-acceptor complexation through bivalent design</i>
16:15 - 16:30	Marta Ximenis <i>Contributing Lecture</i>	<i>Oxime metathesis: tuneable and versatile chemistry for dynamic networks</i>
16:30 - 17:00	Luis Campos <i>Keynote Lecture</i>	<i>Molecules and Macromolecules that Harness and Amplify Light Energy</i>

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17:00-18:00		
Flash Session/Poster Session		
Chair	Tomás Torroba	
P01	Karol Strutynski	<i>Importance of π-stacking on COF structure, theoretical insights.</i>
P02	Marina González Sánchez	<i>Columnar supramolecular donor-acceptor copolymers</i>
P03	Brecht Koek	<i>On-surface synthesis of large-area 2D boroxine polymers</i>
P04	Giulia Vozzolo	<i>Controlling Associative Transcarbamoylation Reactions by Light in Dynamic Polyurethane Networks Using Reversible Spiropyran Photoswitches</i>
P05	Daniel Villar Castro	<i>Synthesis of sulfur-doped polycyclic conjugated systems via Pd-annulation</i>
P06	Marcin Majewski	<i>Getting Into Shape: Covalent Template-Directed Synthesis of Aromatic Macrocycle(s)</i>
P07	Jesús Janeiro-Rodríguez	<i>Novel Aryne-Based Synthesis of Cyclobutadiene-Containing Polycyclic Conjugated Hydrocarbons</i>
P08	Marco Caliarì	<i>CO₂-derived Dissociative Networks with High Mechanical Properties for Isotropic 3D printing</i>
P09	Mateo del Río Clar	<i>MIL-100(Fe)@PES composite polymer beads for organic pollutants extraction from water</i>
18:00-19:00		
Poster Session		
P10	Miao Fu	<i>Tailoring fluorescence properties of new N-doped carbon nanodots for biological applications</i>
P11	Elisa Sturabotti	<i>Fluorescent Carbon Nanodots Doped With Copper For Cells Imaging and Photothermal Treatment Under NIR Irradiation</i>
P12	Micaela Macchione	<i>Hybrid Magnetic Thermo-Responsive Microgels</i>
P13	Sefora Scibetta	<i>Functionalized Naphthalene Diimides as Light-Harvesting Molecules in Water Splitting</i>
P14	Brandhon Flores	<i>One-Step Synthesis of Electrically Conductive Gelatin-Based Hydrogels for Targeted Divalent Ion Delivery</i>
P15	Pedro Ximenis	<i>Synthesis and self-assembly studies of π-conjugated dipyrrolidones</i>
P16	Miriam Mas	<i>A self-assembled dual interfacial hole transporting material for hybrid photovoltaics</i>
P17	Valentina Malavé-Fernández	<i>Towards the synthesis of new nonacene structural isomers</i>
P18	Sharon Monaci	<i>Novel coumarate based Ionic Liquids and coatings as corrosion inhibitors</i>
P19	Alba Millán	<i>Single-Molecule Conductance of Neutral Closed-Shell and Open-Shell Diradical Indenofluorenes</i>

Thursday 13 th June 2024		
Chair	Araceli Campaña	
09:00 - 10:00	Laura Lechuga <i>Plenary Lecture</i>	Nanophotonic sensors for ultrasensitive and label-free diagnostics at the Point-of-Need
10:00 - 10:15	Tomás Torroba <i>Contributing Lecture</i>	<i>From hidden explosive sensors to environmental plastic degradation: opportunities of the locally directed supramolecular events on surfaces</i>
10:15 - 10:30	Lara Troncoso <i>Contributing Lecture</i>	<i>Engineering plasmonic bioinks for SERS sensing in 3D breast cancer models</i>
10:30 - 10:45	Laura Confalonieri <i>Contributing Lecture</i>	<i>Sugar-coated PBIs: Perylenebisimides derivatives for catalytic applications</i>
10:45 - 11:00	Alberto de Juan <i>Contributing Lecture</i>	<i>Porphyrin Cages for Host-Guest Chemistry</i>
11:00 - 11:45		
Coffee Break		

Chair	José Sánchez-Costa	
11:45 - 12:15	Emilio Pérez <i>Keynote Lecture</i>	<i>Nanoscience around the mechanical bond</i>
12:15 - 12:30	Manuel Mellé-Franco <i>Contributing Lecture</i>	<i>Computing your way out of experimental problems, from nanocarbon to covalent organic frameworks and beyond</i>
12:30 - 12:45	Sara Ruiz <i>Contributing Lecture</i>	<i>Clip-off Chemistry for the synthesis of unprecedented reticular and molecular materials</i>
12:45 - 13:00	Joaquin Almarza <i>Contributing Lecture</i>	<i>Advances in mesoporous covalent organic frameworks with twisted molecules</i>
13:00 - 13:30	Wei Zhang <i>Keynote Lecture</i>	<i>Unlocking Innovative Crystalline Polymer Architectures with Dynamic Borate Chemistry</i>
13:30 - 15:30	Lunch	
Chair	Jordi Poater	
15:30 - 16:00	David González-Rodríguez <i>Keynote Lecture</i>	<i>Molecular Encapsulation within Tubular Supramolecular Polymers</i>
16:00 - 16:15	Lucia Cardo <i>Contributing Lecture</i>	<i>Low dimensional carbon-materials doped with metals as safe nanoparticles for medical imaging and sensing</i>
16:15 - 16:45	Takashi Nakanishi <i>Keynote Lecture</i>	<i>Alkyl-π Functional Molecular Liquids/Gels</i>
16:45 - 20:30	Time to Visit San Sebastian	
20:30	Gala Dinner (Muka, Avenida Zurriola 1, 20002 San Sebastian)	

Friday 14 th June 2024		
Chair	David Curiel	
09:00 - 09:30	Uwe Bunz <i>Keynote Lecture</i>	<i>How Can One Protect Large (Aza)acenes?</i>
09:30 - 09:45	Javier Besteiro-Saéz <i>Contributing Lecture</i>	<i>[19]Starphene: Combined In-Solution and On-Surface Synthesis Towards the Largest Starphene</i>
09:45 - 10:00	Marta Bauza <i>Contributing Lecture</i>	<i>MOF-based 3D-printed devices for the extraction of different pollutants from water</i>
10:00 - 10:15	Vipin Mishra <i>Contributing Lecture</i>	<i>On-Surface Synthesis of a Prochiral 2D Covalent Organic Framework at the Solution-Graphite Interface</i>
10:15 - 10:30	Anna Sinelshchikova <i>Contributing Lecture</i>	<i>Platform strategy to reconstruct non-covalent interactions in enzymes within metal-organic frameworks</i>
10:30 - 11:00	Araceli Campaña <i>Keynote Lecture</i>	<i>Synthesis, optical and supramolecular properties of curved nanographenes</i>
11:00 - 11:45	Coffee Break	
Chair	Wei Zhang	
11:45 - 12:00	Lucas Fonseca <i>Contributing Lecture</i>	<i>Symmetric and Asymmetric Reversible-deactivation Polyaddition (RDPa): Tuning Polyurethane Architecture, Molar mass, and Đ "à la carte"</i>
12:00 - 12:15	Denis Ari <i>Contributing Lecture</i>	<i>[8]CPP incorporating electron donor and acceptor fragments by bridging phenylene units</i>
12:15 - 12:30	Yueze Gao <i>Contributing Lecture</i>	<i>Synthesis of cyclocarbon catenanes</i>
12:30 - 13:30	Jishan Wu <i>Plenary Lecture</i>	<i>Fully π-Conjugated Molecular Cages, Belts and Catenanes: Aromaticity and Chirality</i>
13:30	Prizes and Closing Remarks	

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