



European Materials Research Society

2024 Spring Meeting

May 27 - 31 / Strasbourg Convention Centre

SYMPOSIUM J

Chemical functionalization of 2D materials

Symposium Organizers:

Nazario MARTIN, Universidad Complutense de Madrid,
Organic Chemistry Department, Chemistry Faculty, Spain

Nikos TAGMATARCHIS, National Hellenic Research Foundation,
Theoretical and Physical Chemistry Institute, Athens 11635 Greece

Xiaoyan ZHANG (Main organizer), Department of Chemistry and Chemical Engineering,
Chalmers University of Technology, Sweden

Zhong-Shuai WU, CAS, Dalian, P. R. China

WILEY

NANO · MICRO
small

Monday May 27

J01_Preparation and Characterization of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : ZHANG Xiaoyan

08:45	224	45	Exploration of New 2D Materials and Their New Properties	CHENG Hui-Ming
09:30	1032	INV	Flexing and Bending in Carbon and Boron Nitride	EWELS Christopher

Monday May 27

J02_Chemical functionalization of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : EWELS Christopher

10:30	2726	INV	Production and chemical processing of 2D materials towards applications	QUINTANA Mildred
11:00	1793		Organic Functionalization of 2D Materials with Redox- and Photo-active Organic Systems	PENG Cheng
11:15	1561		Electronic Properties of Electroactive Ferrocene-functionalized MoS ₂	NGUYÊN LÊ Trung Nghia
11:30	454		Sustainable Photocatalytic Acylation of Transition Metal Dichalcogenides with Atom Economy	SIDERI Ioanna
11:45	2607		Innovative graphene-modified nonwoven materials for wastewater treatment	CLASSEN Edith

Monday May 27

J03_Applications of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : BACKES Claudia

13:45	293	INV	Graphene materials and their application studies for energy conversion and storage	CHEN Yongsheng
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14:15	745		Microscopic Characterisation of Sodium Ion Intercalation into Functionalized Graphene by Imaging Ellipsometry	THIESEN Peter H.
14:30	2809	INV	Micro-Origami Assembled MXene Roll for Microscale Energy Storage	ZHU Minshen
15:00	1257		Discovery of Two-dimensional Hexagonal MBene HfBO and Exploration on its Potential for Lithium-Ion Storage	MIAO Nanxi
15:15	1547		Efficient Synthesis of Mo ₂ AIB ₂ : A Key Precursor in the Production of 2D MoB as a Promising Material for Catalytic Applications	YILMAZ Tugser
15:30	309	INV	Low-Dimensional Materials for Enhanced Performance and Longevity in Perovskite Photovoltaics	AMERI Tayebeh

Monday May 27

J04_Preparation and Characterization of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : SCHNEIDER Gregory

16:30	686	INV	Local Chemical & Structural Studies of Functionalized 1D & 2D Materials probed via TEM	ARENAL Raul
17:00	1454		Optimizing the Structure, Optical, and Scintillation Properties in Two-Dimensional Perovskite Crystals through Organic ligands, Ion Doping, and Halides Exchange	KUDDUS SHEIKH Md Abdul
17:15	2331		Investigating the Role of Single Tin Atom Doping and Proton Exchange on Layered Tantalum Perovskite for Photocatalytic Hydrogen Evolution	AVCU M. Tugrul
17:30	160	INV	Electron Microscopy and Spectroscopy of Low-Dimensional Functionalized Materials	SUENAGA Kazu
18:00	303		Topochemical Synthesis of Oriented Layered Hydroxide Thin Films	SUDARE Tomohito

Tuesday May 28
J05_Engineering of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : CHEN Yongsheng

08:45	109	45	Phase Engineering of 2D Nanomaterials	ZHANG Hua
09:30	1052	INV	From polycyclic aromatic hydrocarbons to two dimensional nanopore, nanogap and energy devices	SCHNEIDER Gregory

Tuesday May 28
J06_Engineering of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : ARENAL Raul

10:30	355	45	Chemical Patterning of Graphene and Inorganic 2D-Materials	HIRSCH Andreas
11:15	1093		Electronic structure of bilayer Pt clusters stabilized on 2D MoS ₂	KUN Péter
11:30	2243	INV	Covalent Patterning of Graphene: from Sophistication to simplicity	MARTÍN SABANÉS Natalia

Tuesday May 28
J07_Applications of 2D Materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : QUINTANA Mildred

13:45	3081	45	Controlled Functionalization of 2D Graphitic Carbon Materials for Clean Energy and Environmental Remediation	DAI Liming
14:30	2013		Functionalized nanostructured hexagonal boron nitride for water-based drilling fluid	ANDRADE Ricardo
14:45	694		Intercalation & Exfoliation in 2D TMDs and Membrane Fabrication for Water Purification	ZENG Zhiyuan
15:00	2114		Thickness-Modulated semimetal-to-semiconductor transformation in low-temperature grown PtSe ₂ for high-performance flexible photodetector	LI Yaxuan

15:15	18		Molecular memory functions in two-dimensional ReS ₂ /WSe ₂ heterojunction for logic-in-memory nanodevices.	WAKAYAMA Yutaka
15:30	1079	INV	Graphene Oxide: A unique functional 2D macromolecular platform	MASER Wolfgang

Tuesday May 28
J08_Round-table discussions

ORCHESTRE - GROUND FLOOR

Chairperson(s) : ARENAL Raul - BACKES Claudia

16:30	1492	INV	Characterisation of solution-processed 2D nanosheets by MIR and FIR vibrational spectroscopy	BACKES Claudia
17:00	INT5	90	A few well-defined topics on 2D materials: featuring several keynote or invited speakers	

Wednesday May 29
J09_Chemical functionalization of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : ABELLÁN Gonzalo

08:45	3098	INV	Functionalized MoS2 Membranes	VOIRY Damien
09:15	409		Engineering electron density and exciton polarization in WSe2 monolayers via photochlorination	KATSIPOULAKI Eirini
09:30	210		Chiral two-dimensional MoS2 by molecular functionalization	WANG Ye
09:45	752		Continuous Detection of Bioaerosol Concentrations and Types Using Graphene Oxide/Aptamer/Fluorescent Material-DNA	KO Hyun Sik

Wednesday May 29
J10_Emerging 2D materials

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Chairperson(s) : VOIRY Damien

10:30	3080	45	Moiré polar topologies in twisted BaTiO3 membranes	Santamaria J.
11:15	1333		Hexagonal Antimonene: Understanding Structure, Photo-thermal Properties, and Oxidation Behavior	ALCARAZ MEGIAS Marta
11:30	3099	INV	Chemistry and Interface Control of Novel 2D-Pnictogen Nanomaterials	ABELLÁN Gonzalo

Wednesday May 29
J11_Emerging 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : MASER Wolfgang

13:45	2070	45	Advances in Organic 2D Crystals - From On-Water Surface Chemistry to Functional Applications	FENG Xinliang
14:30	2822		Chirality in colloidal two-dimensional transition metal dichalcogenides prepared via bottom-up synthesis	BRANZI Lorenzo
14:45	201		Development of p-n Heterostructure using Phosphorene and SnO ₂ : Its Efficacy towards the Adsorption Study of CO ₂ and Rose Bengal Dye	SULTANA Nasrin
15:00	771	INV	Low dimensional coordination polymers acting as porous as a versatile platform for reversible opto-electronic read-outs displays	SANCHEZ COSTA Jose

Thursday May 30
J12_Applications of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : HERSAM Mark c.

08:45	3095	45	Chemistry and Environmental Stability of MXenes	GOGOTSI Yury
09:30	281	INV	Chemistry of 2D Materials for Micro-electrochemical Energy Storage Devices	WU Zhong-Shuai

Thursday May 30
J13_Applications of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : WU Zhong-shuai

10:30	2168		2D MXenes for Electromagnetic Interference (EMI) Shielding	IQBAL Aamir
11:15	556		Design of Molecule-Programmable Inorganic 2D Materials for Logical Information Processing	MUÑOZ Jose
11:30	2487	INV	Chemically Tailored 2D Materials for Electronic and Energy Technologies	HERSAM Mark C.

Thursday May 30
J14_Applications of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : GOGOTSI Yury

13:45	534	INV	Dressing 2D materials with molecules: complex hybrid structures for sophisticated electronic functions	SAMORÌ Paolo
14:15	2939		Inflammatory biomarkers detection in saliva samples by printed graphene immunosensors	D'ANGELO Pasquale
14:30	3097	INV	Water-based and biocompatible 2D material inks based on supramolecular chemistry	CASIRAGHI Cinzia
15:00	251		Unleashing 2D Nanomaterials for Revolutionary Energy and Water Solutions	ANG Edison Huixiang

15:15	195	INV	Ionic COF Platforms for Li-Ion Batteries and Beyond	LEE Sang-Young
15:45	300		The Intercalation Strategy of Ti ₃ C ₂ T _x MXene for High-Performance Supercapacitors	SHI Shengwei

Thursday May 30 JP01_Poster session

ETOILE - FIRST FLOOR

16:30	01_102	120	01_102 Raman Study of 1T'-WS ₂	NEACSU Vlad-Andrei
16:30	02_1035	120	02_1035 Chirality in colloidal two-dimensional transition metal dichalcogenides prepared via bottom-up synthesis	BRANZI Lorenzo
16:30	03_1042	120	03_1042 Bottom-up design and realisation of stable fullerene spin systems	EWELS Christopher
16:30	04_1086	120	04_1086 Grafting of bioactive polymer on silicone breast implants surface to improve biological response	WOZNIAK Anna
16:30	05_1088	120	05_1088 Graphene-based nanocomposites for the detection of gaseous hydrogen (H ₂): Suitability of palladium and platinum NPs for sensitivity enhancement	NDIAYE Amadou
16:30	06_1105	120	06_1105 Microfluidic-assisted assembly of in-situ functionalized solution-processed MoS ₂ towards advanced sensing	ZHURAVLOVA Anna
16:30	07_1150	120	07_1150 Single-Step Synthesized Functionalized Copper Carboxylate Framework Meshes as Hierarchical Catalysts for Enhanced Reduction of Nitrogen-Containing Phenolic Contaminants	CHANG Pei-Tzu
16:30	08_1181	120	08_1181 Covalent functionalization of Porphyrin to Graphene for Fast, Sensitive and Reproducible Ammonia Sensors	YUXIANG Shen
16:30	09_1189	120	09_1189 Modification of Hexagonal Boron Nitride through Catalytic Etching by the Formation of Transition Metal Oxides	LEE Myeung-Jin
16:30	10_1191	120	10_1191 Thin film characteristics and ferroelectric property evaluation of SnS thin films deposited using atomic layer deposition process	JEON Hyeongtag
16:30	11_1197	120	11_1197 Controlled Layered Growth of MoS ₂ by Reactive Sputtering	OKADA Yoshitaka

16:30	12_1199	120	12_1199 Surface Defect Engineering on WS2 for Thermal Catalyst	KIM Donghyeok
16:30	13_1202	120	13_1202 Lateral Asymmetrically Oxidized TMD Devices for Artificial Synapse	HOU Xiangyu
16:30	14_1270	120	14_1270 Surface treatment of WS2 through liquid-nitrogen exfoliation and gas-liquid interface plasma	CHOI Yejin
16:30	15_1305	120	15_1305 Lamellar hybrid materials with solid-solid phase transitions for thermal energy storage	ARCHINARD Côme
16:30	16_1372	120	16_1372 Solution Processed Gold Nanoparticles MoS2 Thin Film for NO2 Sensing	NI Pingping
16:30	17_141	120	17_141 Functionalized 2D materials based Superhydrophobic Coating	JENA Kishore Kumar
16:30	18_1414	120	18_1414 Noncovalent Functionalization of 2D Black Phosphorus using Methyl Viologens for Enhanced Ambient Stability	SARKAR Ishan
16:30	19_1429	120	19_1429 High-Performance Asymmetric Aqueous Supercapacitors based on Redox-Active Organic Molecule/2D Material as Electrodes	WU Zenghua
16:30	20_1431	120	20_1431 Observation of Dipole-induced Magnetization On Gold Nanostructure	ZHANG Kefan
16:30	21_1445	120	21_1445 Discovery of Two-dimensional Hexagonal MBene HfBO and Exploration on its Potential for Lithium-Ion Storage	MIAO Nanxi
16:30	22_145	120	22_145 Influence of the Ag/AgCl RE roughness surface on its properties	DERARDJA Akila
16:30	23_146	120	23_146 Exsolution and Electrodeposition Strategies for Enhancing Electrocatalytic Activity of Ti-Based Perovskite Oxides in Oxygen and Hydrogen Evolution Reactions	ZUO Shangshang
16:30	24_1469	120	24_1469 MAX integrated filament for HF-Free electrochemical Etching for Energy conversion and storage application	NOUSEEN Shaista
16:30	25_1476	120	25_1476 Design and Synthesis of Carbon@ Transition Metal Compounds as Dual-Functional Catalysts for Oxygen Reduction and Evolution Reactions in Zinc-Air Batteries	KIM Min
16:30	26_1498	120	26_1498 Towards a Systemic Description of 2D to 3D Halide Perovskite Thin Film Formation Process	PAUपोर्टÉ Thierry

16:30	27_1525	120	27_1525 Impact of vacancy defects on electrochemical nitrogen reduction reaction performance of MXenes	KAGDADA Hardik
16:30	28_155	120	28_155 Fe doped MoS ₂ Nanozymes for Sensitive Determination of H ₂ O ₂ in Milk	ZHANG Xin
16:30	29_157	120	29_157 Investigation of metal ions diffusion into 2D InSe flakes	OMAN Zabira
16:30	30_1612	120	30_1612 Novel synthesis approach of hybrid nanocomposite based on histidine functionalized reduced graphene oxide decorated by Ag nanowires	INGROSSO Chiara
16:30	31_1636	120	31_1636 Phase control of 1T/2H-MoS ₂ to enhance the catalytic activity of VMo/Ti catalysts as a molybdenum precursor	KIM Hong-Dae
16:30	32_1642	120	32_1642 Efficient one-pot two-step electrochemical synthesis of highly oxidized graphene oxide for enhanced energy and environmental applications: Structure elucidation through DFT simulations	KUMAR Navneet
16:30	33_1684	120	33_1684 Investigating the Effect of Metal centre in Multilayer Ti and V MXene towards electrochemical sensing Application	SINGH Sonam
16:30	34_1693	120	34_1693 A Comprehensive Exploration of PPS/MgO@MoS ₂ Core-Shell Composites for Enhanced Thermal and Mechanical Performance	KIM Jooheon
16:30	35_1736	120	35_1736 A DFT study of structural, electronic and optical properties of disordered solid solutions of transition metal dichalcogenides	GUSAKOVA Julia
16:30	36_1767	120	36_1767 Improved Hydrogen Generation via Singular-Atom Palladium-Loaded Nanosheets Derived from Modified Dion Jacobson Layered Perovskites.	YALÇIN Tugba
16:30	37_1808	120	37_1808 WS ₂ -based inorganic nanotube (1D) for room temperature ammonia sensing	DEEPAK Sharma
16:30	38_1824	120	38_1824 Analysis of nanostructure morphology and photo sensitivity behavior of (BA) ₂ PbI ₄ – 2D Organic-Inorganic perovskite single crystals for potential solar cells	SIVAKUMAR Natarajan
16:30	39_1840	120	39_1840 Enhancing Solar Photocatalysis: Unveiling the Kinetics and Mechanism of rGO Modified g-C ₃ N ₄ /SnO ₂ Ternary Heterostructure	KUMAR Rakesh
16:30	40_1878	120	40_1878 Exploring Borophene's Photocatalytic Potential through Comprehensive Kinetics Study of Single Atom Decoration	YILDIZ Özden Günes

16:30	41_1892	120	41_1892 Field-effect mobility dispersion analysis in graphene using Advanced Modified-Drude model	LEE Eun Kyung
16:30	42_194	120	42_194 TiS ₂ /TiO ₂ @MXene Host for High-Volumetric-Energy-Density Lithium-Sulfur Batteries	LEE Seung-Mo
16:30	43_2015	120	43_2015 Influence of substitution on electrochemical and surface properties of chemically modified electrodes based on thiadiazole-azulene	ANASTASOAIIE Veronica
16:30	44_2027	120	44_2027 DFT-assisted investigations of the atomic electric field distribution of vacancy-type defects in 2D WSe ₂ by STEM differential phase contrast imaging	GROLL Maja
16:30	45_2065	120	45_2065 Fabrication of Sustainable Covalent Organic Framework Catalyst via Efficient Pd-Recovery from Wastewater	MAHIRA BASHRI K
16:30	46_2066	120	46_2066 Innovative Anode Materials Approach for High-Performance Potassium-Ion Batteries Using Anion Exchange Strategy	KIM Ju Hyeong
16:30	47_2086	120	47_2086 Fabrication of Sustainable Covalent Organic Framework Catalyst via Efficient Pd-Recovery from Wastewater	MAHIRA BASHRI K
16:30	48_2107	120	48_2107 Defect structure engineering of hexagonal boron nitride for identified visible single photon emitters	TANG Tsz Wing
16:30	49_2110	120	49_2110 Beyond Layers: Unveiling the Potential of Organic 2D Crystals in Emerging Material Science	FENG Xinliang
16:30	50_2150	120	50_2150 Functionalization-driven optimization: WS ₂ nanosheets on Fe ₂ O ₃ nanoflakes for enhanced photoelectrochemical water splitting	BEHERA Govinda Chandra
16:30	51_218	120	51_218 Gold nanoparticles decorated on thiol-functionalized dendritic polymers on amino-functionalized graphene oxide for SERS detection .	WANG Kuan-Syun
16:30	52_2184	120	52_2184 Research on recycling of Bambusa blumeana residues into nitrogen-doped biocarbon materials for carbon capture	TSAO Nai-Wen
16:30	53_2277	120	53_2277 Comparing Graphene-Based Biosensors for Analyzing Artificial Sweat	BERTUG Yildirim
16:30	54_2327	120	54_2327 Design of novel membrane architectures based on 2D materials	MODERNE Mathilde

16:30	55_234	120	55_234 Coalescing solar-to-chemical and carbon circular economy: Mediated by metal-free porous organic polymer under natural sunlight	SAINI Neha
16:30	56_2344	120	56_2344 Solidification dynamic of two molten droplets in plasma spray forming process	Serdani Abdelkrim
16:30	57_2345	120	57_2345 Formation of Elevated Momentum-State Excitons in Monolayer TMDs by Spatially Structured Beams	DAS Pritam
16:30	58_2559	120	58_2559 MoTe ₂ growth by Tellurization and its Tunable Band Alignment of MoTe ₂ with SiO ₂ interface using internal photoemission spectroscopy	TUMMALA Pinaka Pani
16:30	59_257	120	59_257 Enhanced Zero-Bias-Operated MXene Sensitivity through Lignin Hybridization for Chemiresistive Sensor	DEVARA I Ketut Gary
16:30	60_2618	120	60_2618 In-situ Growth of Copper and Sulfur Codoped NiCo-LDH for High-Performance Supercapacitor Electrode Materials	KUMAR Sudhir
16:30	61_2628	120	61_2628 Plasma-assisted mechanochemistry for polymer composites incorporating 2D nanomaterials	PARK Jong Hyuk
16:30	62_27	120	62_27 Magnetic template-assisted construction of 2D PCN/TiO ₂ hetero-nanostructures for photocatalytic hydrogen generation	XUE Can
16:30	63_2746	120	63_2746 Defect-rich MoSSe/rGO Electrocatalysts for Electrochemical Ammonia Production from Nitrate	SIM Uk
16:30	64_2755	120	64_2755 Tunable-bandgap transition metal dichalcogenides enabled by strain engineering	WANG Jun
16:30	65_2788	120	65_2788 Enhanced corrosion resistance of flaky carbonyl iron for the application of electromagnetic wave absorption coatings	LYU Yadong
16:30	66_2848	120	66_2848 Light-driven Greenhouse Gas Abatement by Antenna-Single Atom and Highly Dispersed Mono/Bimetallic Reactor (Ag-M, M: Ni, Pt/Ni, Pd/Ni) Plasmonic Photocatalysts through Low Temperature Methane Dry Reforming Reaction	TOPCU Aybala Busra
16:30	67_287	120	67_287 Surface treatment of graphene and fabrication and characterization of copper and copper alloys composite	SILVAIN Jean-Francois
16:30	68_2986	120	68_2986 Self-calibrating direct counting of monolayers in 2D materials: application to hBN using BALM microscopy	VIALLA Fabien

16:30	69_324	120	69_324 Photo-curable Functionalized Boron Nitride Nanosheets Composites for Thermal Management	JIANG Yixuan
16:30	70_37	120	70_37 Elucidation of Chemical Functionalization of 2D-MoS ₂ Layers Under Oxygen Plasma using TERS and KPFM Imaging	GUPTA Sanju
16:30	71_385	120	71_385 Post-sulfurization process for WO _x thin film	CHANG Chan-Yuen
16:30	72_399	120	72_399 Achiral phosphonium cation induced new chiral Zn, Cd-based 2D hybrid perovskites	BARMAN Shubhankar
16:30	73_413	120	73_413 Advancement of High-Performance Thermally Conductive Composites Utilizing Aramid Nanofiber- and Pentaerythritol-Grafted Graphene Nanoplate Development.	KIM Jooheon
16:30	74_418	120	74_418 Development of an electrospun patch for the treatment of myelomeningocele	BENABDERRAHMANE Khaoula
16:30	75_452	120	75_452 Coordinated metallo-porphyrin and metallo-phthalocyanine onto modified MoS ₂	NIKOLI Eleni
16:30	76_471	120	76_471 Outer coordination sphere of cobaloxime grafted graphene: Hydrogen evolution reaction insights	SIDERI Ioanna
16:30	77_495	120	77_495 Triplet state energy-dependent photoluminescence of Eu ³⁺ and Tb ³⁺ in a guest-host system with organic sensitizer-layered yttrium hydroxide	CHOI Yoonjae
16:30	78_591	120	78_591 Mechanochemistry-based synthesis of layered zirconium phosphates and phosphonates	MELANOVA Klara
16:30	79_592	120	79_592 Zirconium phosphates and sulfophosphonates intercalated by guanidine – synthesis, characterization and conductivity	PLECHACEK Tomas
16:30	80_637	120	80_637 Molybdenum disulfide/di-block copolymer electrostatically interfacing an anionic porphyrin	MINADAKIS Michail Panagiotis
16:30	81_682	120	81_682 H-terminated 2D-Germanene-based Nanoarchitectonics: Surface Engineering and Implementation in Electrochemical Energy Conversion Reactions and Biosensors	LEI Yiming
16:30	82_688	120	82_688 Quasi-resonant Tunneling Transport in a van der Waals Magnet	LONG Gen
16:30	83_734	120	83_734 Hierarchical ZIF-decorated nanoflower-covered 3-dimensional foam for enhanced catalytic reduction of nitrogen-containing contaminants	JOY Lin

16:30	85_779	120	85_779 Aqueous Asymmetric Supercapacitors with Pyrenetetraone-Derived Pseudocapacitive Polymer-Functionalized Graphene Cathodes Enabling a 1.9?V Operating Window	PENG Cheng
16:30	86_782	120	86_782 Raman and Beyond: Characterization of Graphene and Emerging 2D Materials	BOISSON Hervé
16:30	87_791	120	87_791 Chalcogen Alloying Mediated Electronic Structure Modulation in Ultrathin Nb(SxSe(1-x))2 Nanosheets for Hydrogen Evolution Reaction	JHA Varsha
16:30	88_81	120	88_81 Growth of single-atomically dispersed Pt on 1T'-MoS2 nanosheets for highly efficient electrocatalytic hydrogen evolution	SHI Zhenyu
16:30	89_846	120	89_846 Highly Efficient Chirality Induced Spin Selectivity in Molecule-based Devices Embedding Helicene Monolayer	GIACONI Niccolò
16:30	91_891	120	91_891 2D g-C3N4 nanosheets nanoarchitectonics: photocatalytic energy conversion	ZHANG Xiao
16:30	92_897	120	92_897 Excited electron-rich Bi(3-x)+ sites: a quantum well-like structure for highly-promoted selective photocatalytic CO2 reduction performance	WANG Bin
16:30	93_900	120	93_900 Oxygen vacancies coupled with Co single-atom asymmetric site in W18O49 nanowires enhanced peroxymonosulfate activation for treating micropollutant	LIU Jinyuan
16:30	94_912	120	94_912 Improving the energy density of lithium-ion batteries with a dry-processed anode via the synergistic effects of the FEC-derived SEI	LEE Juhyun
16:30	95_953	120	95_953 Molecular functionalization of field-effect transistors based on transition metal dichalcogenides (TMDs)	HAN Bin

Friday May 31

J15_Chemical functionalization of 2D materials

ORCHESTRE - GROUND FLOOR

Chairperson(s) : ZHANG Xiaoyan

08:45	126	INV	Chemical Functionalization of Graphenes, Nanographenes, and Transition Metal Dichalcogenides for Solar Energy Conversion	IMAHORI Hiroshi
09:30	3096	INV	Modification and Interrogation of 2D Materials: From Asymmetric Functionalization to Chemical Characterization by Local Mechanical Properties	Forment-Aliaga Alicia

