

## TENTATIVE PROGRAM (as of 30/08/2019)

#### **PLENARY SESSION TUESDAY 03/09**

08:00-09:00	REGISTRATION	
09:00-09:15	OPENING	
09:00-09:05	Opening Speech - Xinliang Feng (Organising Committee)	
09:05-09:15		
	Chairperson: Xinliang Feng (TU Dresden, Germany)	
09:15-09:55	Klaus Müllen (Max Planck Institutes for Polymer Research, Germany)	KEVALOTE
	Graphene Nanoribbons – Merging the (1D) Conjugated Polymer and (2D) Graphene Worlds	KEYNOTE
00.55 10.25	William Dichtel (Northwestern University, USA)	KEVNOTE
09:55-10:35	Advances in 2D Polymerization	KEYNOTE
	Tanmay Banerjee (Max Planck Institute for Solid State Research, Germany)	
10:35-10:50	2D covalent organic frameworks with built-in functional groups by sub-stoichiometric	ORAL
	topological design	
10:50-11:15	Coffee break - Poster Session and Exhibition	
	Chairperson: William Dichtel (Northwestern University, USA)	
11:15-11:45	Cinzia Casiraghi (University of Manchester, UK)	INVITED
11.15-11.45	Water-based 2D-Inks: from all-inkjet printed devices to biomedical applications	INVITED
11.45 12.45	Alberto Bianco (IBMC-CNRS-Université de Strasbourg, France)	IND/ITED
11:45-12:15	Multifunctional biodegradable graphene-based materials for cancer therapy	INVITED
42.45 42.20	Jiri Cervenka (FZU - Institute of Physics of the Czech Academy of Sciences, Czech Republic)	
12:15-12:30	Chemical and Biomolecule Sensing using Graphene Field Effect Transistors	ORAL
12:30-12:45	Xiang-Yu Kong (Technical Institute of Physics and Chemistry, Chinese, China)	ORAL
12.30-12.43	Bio-inspired nano-confined membrane: ion transport regulation and applications	
12.45 12.00	Mohsen Aadeli (Freie Universitaet, Germany)	ODAL
12:45-13:00	Study on the Mechanism of Graphene/Pathogen interactions	ORAL
13:00-14:00	Cocktail Lunch (offered by the organizers)	
14:00-14:30	Poster Session and Exhibition	
	Chairperson: Alberto Bianco (IBMC-CNRS-Université de Strasbourg, France)	
	Francesco Bonaccorso (IIT-Graphene Labs / BeDimensional, Italy)	
14:30-15:00	Liquid phase production of 2D crystals for energy applications	INVITED
	Hanjun Sun (TU Dresden, Germany)	
15:00-15:15	Conjugated Acetylenic Polymers for Photoelectrochemical Water Reduction	ORAL
	<b>Xu-Bing Li</b> (Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China)	
15:15-15:30	2D transition metal carbide for catalysis	ORAL
	Jayaramulu Kolleboyina (Regional Centre of Advanced Technologies and Materials,	
	Czech Republic)	ORAL
15:30-15:45	Ultrathin Two-Dimensional Cobalt Zeolite-Imidazole Framework Nanosheets for	
	Electrocatalytic Oxygen Evolution	
	Minghao Yu (TU Dresden, Germany)	
15:45-16:00	Engineering van der Waals gap of MoO3 to achieve high-kinetics anode for dual-ion	ORAL
	energy storage devices	

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16:00-16:15	Panpan Zhang (TU Dresden, Germany)	ORAL	
	Development of Novel Micro-Supercapacitors with Smart Functions	ONAL	
16:15-16:30	Gang Wang (TU Dresden, Germany)	ORAL	
10.15-10.50	Anion storage in graphite: mechanism, kinetics and devices	UKAL	
16.20 17.00	Jonathan Coleman (Trinity College Dublin, Ireland)	INIVITED	
16:30-17:00	2D-based composites as battery electrodes	INVITED	
17:00-17:30	Coffee break - Poster Session and Exhibition		
	Chairperson: Jonathan Coleman (Trinity College Dublin, Ireland)		
17:30-18:10	Paolo Samori (Université de Strasbourg & CNRS – ISIS, France)	KEVNOTE	
17:30-18:10	Controlled doping of 2D materials with responsive molecules	KEYNOTE	
18:10-18:25	Mirco Panighel (CNR-IOM, Italy)	ODAL	
18:10-18:25	N-doped graphene: growth and reactivity	ORAL	
10.25 10.40	Hai Wang (Max Planck Institute for Polymer Research, Germany)	ODAL	
18:25-18:40	Ionic permeability and interfacial doping of graphene on SiO2	ORAL	
10.40 10.10	Shixuan Du (Chinese Academy of Sciences, China)	INIVITED	
18:40-19:10	Electronic-Structure Engineering of Graphene by Semiconductor Intercalation	INVITED	

## **WORKSHOP 1: Organic and organometallic 2D materials - WEDNESDAY 04/09**

Chairperson: Aitor Mugarza (ICN2, Spain)		
09:00-09:30	Aurelio Mateo-Alonso (Ikerbasque / UPV/EHU, Spain)	INVITED
	Merging Twisted Aromatics and Framework Materials	INVITED
00.20 00.45	Tao Zhang (TU Dresden, Germany)	ORAL
09:30-09:45	Rational Synthesis of Two-Dimensional Conducting Polymer Crystals	
09:45-10:15	Guillermo Minguez (University of Valencia, Spain)	INVITED
	Mechanical exfoliation in magnetic 2D coordination polymers	
10:30-11:15	Coffee break - Poster Session and Exhibition	

# WORKSHOP 2: Synthesis, chemical exfoliation and functionalization - WEDNESDAY 04/09

	04/09	
	Chairperson: Andrey Turchanin (Friedrich Schiller University Jena, Germany)	
11:15-11:30	Michal Otyepka (Palacky University Olomouc, Czech Republic)	
	Chemistry of Fluorographene, From Understanding to Applications	ORAL
11:30-11:45	Ryo Nouchi (Osaka Prefecture University, Japan)	ORAL
	Gate-Controlled Chemical Modification of Graphene	
	Beata Szydlowska (Universitat Heidelberg, Germany)	ORAL
11:45-12:00	Nobel Metal Based TMDCs – accessing semiconducting properties of PtSe2 via Liquid Phase Exfoliation	
12:00-12:15	Mai Lê Anh (Technische Universität Dresden, Germany)	ODAL
12:00-12:15	Topochemistry and Delamination of Layered Topological Insulators	ORAL
12:15-12:30	Dimitrios Chronopoulos (Palacky University / RCPTM, Czech Republic)	ORAL
12.13-12.30	Alkynylation of Graphene via Sonogashira C-C Cross Coupling Reaction on Fluorographene	UNAL
	Mhamed Assebban (Instituto de Ciencia Molecular (ICMol), Universidad de Valencia	
	and Joint Institute of Advanced Materials and Processes (ZMP), Friedrich-Alexander-	
12:30-12:45	Universität Erlangen-Nürnberg, Spain)	ORAL
	Towards optimized preparation of few-layer antimonene and unveiling its oxidation tendency	
12:45-13:00	Ali Shaygan Nia (TU Dresden, Germany)	ORAL
12.45-15.00	Exfoliation of Two-Dimensional Layered Materials Beyond Graphene	
13:00-14:30	Lunch	
WORKSH	IOP 2: Synthesis, chemical exfoliation and functionalization - WEDN	<b>IESDAY</b>
	04/09	
Cha	airperson: Arkady Krasheninnikov (Helmholtz-Zentrum Dresden-Rossendorf, Germany	·)
14:30-15:00	Aitor Mugarza (ICN2, Spain)	INVITED
14.30-13.00	On-surface synthesis of nanostructured graphene: from 0D to 2D	INVITEL
45 00 45 30	Andrey Turchanin (Friedrich Schiller University Jena, Germany)	IND //TES
15:00-15:30	Synthesis of molecular 2D materials via electron irradiation induced chemistry	INVITED
45.00.45.45	Francesca Moresco (TU Dresden, Germany)	
15:30-15:45	Functional molecular structures synthetized on surface	ORAL
	Luca Bignardi (University of Trieste, Italy)	
15:45-16:00	Highly-ordered single-layer MoS2 on the anisotropic Ag(110)	ORAL
16:00-17:00	Coffee break - Poster Session and Exhibition	
	IOP 2: Synthesis, chemical exfoliation and functionalization - WEDN 04/09	IESDAY
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Chairperson: Guillermo Minguez (University of Valencia, Spain)

17:00-17:30	Siegfried Eigler (Freie Universität Berlin, Germany)	INVITED
	Oxo-Graphene – Synthesis and Heterostructures	INVITED
	Peter Hess (University of Heidelberg, Germany)	
17:30-17:45	Dependence of bonding, structure, and performance of monolayers on the position	ORAL
	in the periodic table	
	Xue Liu (Leiden University, Netherlands)	
17:45-18:00	Synthesis of ultrathin nanoporous carbon membrane for efficient energy harvesting	ORAL
	from salinity gradient	
18:00-18:30	Arkady Krasheninnikov (Helmholtz-Zentrum Dresden-Rossendorf, Germany)	
	Tailoring the properties of inorganic two-dimensional materials by post-synthesis	INVITED
	introduction of impurities and defects	

## **WORKSHOP 3 - WEDNESDAY 04/09**

	Chairperson: Chiara Zanardi (University of Modena and Reggio Emilia, Italy)	
08:45-09:00	Hui Guo (Institute of Physics, Chinese Academy of Sciences, China)	ORAL
	Fabrication of large-scale graphene/2D-germanium heterostructure by intercalation	
09:00-09:15	Jinhua Sun (Chalmers University of Technology, Sweden)	ORAL
	Synthesis of Janus graphene for energy storage	UNAL
09:15-09:30	Valeria Saavedra (Leiden University, Netherlands)	
09.15-09.50	Electron transfer at graphene edge electrodes: tunneling, electrochemistry and	ORAL
	future applications	
09:30-09:45	Yang Su (Loughborough University, UK)	ORAL
	Self-limiting growth of palladium nanosheets between graphene oxide layers	ONAL
09:45-10:00	Sergiy Mankovskyy (LMU Muenchen, Germany)	ODAL
	Magnetic and transport properties of NbS2 intercalated by 3d-elements	ORAL
10:00-10:15	Bing-Ming Cheng (National Synchrotron Radiation Research Center, Taiwan)	ORAL
	Fluorescent Nitrogen-vacancy Diamond as VUV Sensor	
10:15-10:30	Desissa Yadeta Muleta (Tianjin University, China)	ODAL
	Small-Molecule-Doped Organic Crystals with Long-Persistent Luminescence	ORAL
10:30-11:15	Coffee break - Poster Session and Exhibition	

## **WORKSHOP 4 - WEDNESDAY 04/09**

	Chairperson: Aurelio Mateo-Alonso (Ikerbasque / UPV/EHU, Spain)	
11:15-11:30	Christian Dolle ((ICMol) - Universidad de Valencia, Spain)	ORAL
	Cleaning graphene using the NanoBroom	UKAL
11.20 11.45	Ivan Bobrinetskiy (Biosense Institute, Serbia)	
11:30-11:45	In-plane junctions in graphene field-effect transistors generated by photochemical mask-less patterning	ORAL
11:45-12:00	Adriana Alieva (University of Manchester, UK)	ORAL
	Effect of Graphene on the Crystallisation of Glycine	UKAL
12:00-12:15	Peer Schmidt (BTU Cottbus-Senftenberg, Germany)	ORAL
	Crystal Growth of layered Halides MX3 by Vapor Transports	
12:15-12:30	Feruza Tuyakova (NUST MISiS, Russia)	ORAL
	Chemical vapor deposition: carbon and non-carbon nanomaterials	ORAL
12:30-12:45	James Kerfoot (University of Nottingham, UK)	
12:30-12:45	Electroluminescence from perylene diimide monolayers encapsulated in van der	ORAL
	Waals tunnel diodes	
12:45-13:00	Christian Wagner (Helmholtz-Zentrum Dresden-Rossendorf, Germany)	ORAL
	Interlayer excitons in van-der-Waals heterostructures: MoS2 on GaSe	ONAL
13:00-14:30	Lunch	

### **WORKSHOP 5 - WEDNESDAY 04/09**

Chairperson: Lucia Gemma Delogu (University of Padua, Italy)		
14:30-15:00	Cecilia Mattevi (Imperial College London, UK)	INVITED
	Phase engineering of colloidal TMDs for efficient electrocatalytic HER	INVITED
	Matias Blanco (University of Padova, Italy)	
15:00-15:15	Enhanced carbocatalytic alcohol oxidation by Graphene Acid: Mechanistic insights for the control of the selectivity	ORAL
	Alessandro Sala (University of Trieste and IOM-CNR, Italy)	ORAL
15:15-15:30	Mimic 1D properties on continuos 2D materials: the pilot case of graphene on NiCx/Ni(100)	
15.20 15.45	Meng-Ying Lee (National Cheng Kung University, Taiwan)	ORAL
15:30-15:45	Dehydration behavior and the derived delamination effect of boehmite	
	Yuta Nishina (Okayama University, Japan)	
15:45-16:00	Production of 2D nanocarbons through chemical, electrochemical, or mechanical methodologies	ORAL
16:00-17:00	Coffee break - Poster Session and Exhibition	

## WORKSHOP 6: 2D Electronics & (Bio)Sensors - WEDNESDAY 04/09

	Chairperson: Cecilia Mattevi (Imperial College London, UK)		
17:00-17:30	Lucia Gemma Delogu (University of Padua, Italy)	INVITED	
	Future applications for 2D materials: the immune system scenario	INVITED	
17.20 19.00	Chiara Zanardi (University of Modena and Reggio Emilia, Italy)	INVITED	
17:30-18:00	Graphene oxide based materials for electrochemical (bio)sensing		
18:00-18:15	Dingkun Ji (CNRS, France)	ORAL	
	Covalent Multifunctional Carbon Nanodots for NIR Laser-Triggered Therapy	UKAL	
	Shirong Huang (TU Dresden, Germany)		
18:15-18:30	Bio-compatible graphene exfoliation assisted by flavin mononucleotide sodium: a molecular dynamics study	ORAL	

### **PLENARY THURSDAY 05/09**

	Chairperson: Georg Stefan Duesberg (Universität der Bundeswehr München, Germany)	
	Steven De Feyter (KU Leuven, Belgium)	
08:45-09:15	Periodic Non-Covalent and Covalent Functionalization of 2D Materials	INVITED
	Martin Kalbac (J. Heyrovsky Institute of Physical Chemistry, Czech Republic)	
09:15-09:30	Graphene functionalization for building of complex structures, nanoscale motion and	ORAL
	resist free patterning	
	Kunal Mali (KU Leuven, Belgium)	
09:30-09:45	Covalent Functionalization of Surface-Supported Graphene and MoS2: Chemical versus	ORAL
	Electrochemical Routes	
00.45 40.00	Lakshya Daukiya (KU Leuven, Belgium)	ORAL
09:45-10:00	SPM studies on functionalization of 2D transition metal dichalcogenides	
	Kazukuni Tahara (Meiji University, Japan)	
10:00-10:15	Porous Self-Assembled Monolayers as Templates for Chiral Chemical Functionalization	ORAL
	of Graphite Surface	
10:15-10:45	Coffee break - Poster Session and Exhibition	
	Chairperson: Steven De Feyter (KU Leuven, Belgium)	
10:45-11:25	Andreas Hirsch (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)	KEYNOTE
10.43-11.23	Chemical Functionalization of Graphene and Black Phosphorus	KETNOTE
	Cian Bartlam (University of Manchester, UK)	
11:25-11:40	Nanoscale Infrared Characterisation of Functional Groups on Two-dimensional	ORAL
	Materials	
	Hui Chen (Institute of Physics, The Chinese Academy of Sciences, China)	
11:40-11:55	Large-scale formation of single-crystal one-third-hydrogenated graphene with	ORAL
	anisotropic electronic properties	
11:55-12:10	Emilio Perez (IMDEA Nanociencia, Spain)	ORAL
	New tools for the chemical modification of 2D materials	
12:10-12:40	Georg Stefan Duesberg (Universität der Bundeswehr München, Germany)	INVITED
	Functionalisation Strategies of Monolayer Surfaces	
12:40-14:00	Cocktail Lunch (offered by the organizers)	
14:00-14:30	Poster Session and Exhibition	
Ch		`
	airperson: Andreas Hirsch (Friedrich-Alexander-Universität Erlangen-Nürnberg, German	y)
14:30-15:10	Roman Fasel (EMPA, Switzerland)	
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17:55-18:10	Renhao Dong (TU Dresden, Germany)	ORAL
	Interfacial Synthesis of 2D Conjugated Polymers: the Rise of Organic 2D Materials	UNAL
18:10-18:25	Nerea Bilbao (KU Leuven, Belgium)	ORAL
16.10-16.25	On-Surface Synthesis of Covalent Organic Frameworks	
	Long Chen (Tianjin University, China)	ORAL
18:25-18:40	De Novo Design and Facile Synthesis of 2D Covalent Organic Frameworks: A Two-in-	
	One Strategy	
18:40-19:10	Thomas Bein (Ludwig-Maximilians-Universität München, Germany)	INVITED
	Optoelectronic Processes in Covalent Organic Frameworks	INVITED

### **Industrial Forum THURSDAY 05/09**

Chairperson: Xinliang Feng (TU Dresden, Germany)		
14:30-14:50	Rune Wendelbo (Abalonyx, Norway)	INVITED
	Emerging Industrial Applications of Graphene Oxide	INVITED
14:50-15:10	Martin R. Lohe (Sixonia / TU Dresden, Germany)	INVITED
14.30-13.10	E-Graphenes: Ease of use through chemical functionalization	INVITED
15:10-15:30	Pascal Freund (Trevira GmbH, Germany)	INVITED
15:10-15:30	Conductivity and more?: GRM enables new properties in PET filaments	INVITED
15:30-15:50	Jorge Eduardo Adatti Estevez (Infineon, Germany)	
	High-yield production and characterization of graphene-based chemiresistors for environmental	INVITED
	sensing	
15:50-16:30	Coffee break - Poster Session and Exhibition	

20:30 THURSDAY SEPTEMBER 05, 2019
Chem2dmat2019 Conference Dinner

## PLENARY FRIDAY 06/09

Chairperson: Sai Manoj Gali (Université de Mons - UMONS, Belgium)			
08:45-09:25	Ute Kaiser (Ulm University, Germany)	KEYNOTE	
	Properties of low-dimensional materials by high-resolution low-voltage and/or low-		
	dose TEM		
09:25-09:40	Haoyuan Qi (TU Dresden, Germany)	ORAL	
	Near atomic resolution imaging of an imine-based 2D polymer using aberration-		
	corrected high-resolution electron microscopy		
09:40-10:10	Camilla Coletti (IIT, Italy)	INVITED	
	Going beyond copper: wafer-scale synthesis of graphene on sapphire		
10:10-10:40	Vincenzo Palermo (Chalmer University of Technology, Sweden)	INVITED	
	Charge and gas transport in complex 2-dimensional anisotropic systems		
10:40-11:15	Coffee break - Poster Session and Exhibition		
11:15-11:30	Poster Awards Ceremony		
Chairperson: Thomas Heine (TU Dresden Germany)			
11:30-12:00	Sai Manoj Gali (Université de Mons - UMONS, Belgium)	INVITED	
	Electronic structure and charge transport simulations in GRM-organic hybrids: Where		
	Chemistry meets Physics		
12:00-12:15	Frederik Schiller (CFM-MPC (CSIC), Spain)	ORAL	
	Structure and electronic properties of h-BN on curved crystals		

	Kannan Balasubramanian (Humboldt Universität zu Berlin, Germany)	
12:15-12:30	The unique interplay between interfacial chemistry and electronic structure in	ORAL ORAL
	graphene	
	Stefano Casalini (University of Strasbourg, France)	
12:45-13:15	Reduced graphene oxide transistors: towards wearable e-platforms	INVITED
	Martin Pumera (University of Chemistry and Technology, Czech Republic)	
12.43-13.13	Electrochemistry of 2D Materials	INVITED
13:15	Closing remarks & Chem2Dmat2021 announcement	