

TENTATIVE PROGRAM (as of 04/11/2021)

P: Plenary / K: Keynote lecture / I: Invited Lecture / O: Oral contribution

Conference Time Zone – Madrid, Spain (GMT+1)



Tuesday (02/11/2021) – Plenary Session

09:00 – 09:40: Andras Kis (EPFL, Switzerland) Exciton manipulation and transport in 2D semiconductor heterostructures	K
09:40 – 09:55: Andrea Liscio (National Research Council of Italy (CNR), Italy) Multiscale Charge Transport in van der Waals Thin Films: Reduced Graphene Oxide as a Case Study	0
09:55 – 10:10: Antonios Raptakis (TU Dresden / Institute for Materials Science, Germany) Predicting the electronic gap of single-layer 2D COFs from their molecular building-blocks	0
10:10– 10:30: Break	
10:30 – 11:00: Daniel Neumaier (AMO / University of Wuppertal, Germany) Graphene based flexible radio-frequency electronics: Current status and major challenges	I
11:00 – 11:30: Wojciech Knap (Université de Montpellier, France)	1
Graphene Plasmonic Crystals for Terahertz radiation amplification	
11:30 – 12:00: Klaas-Jan Tielrooij (ICN2, Spain) The thermal conductivity of the Dirac fluid at room temperature	ı
12:00 – 12:30: Guillaume Cassabois (Université Montpellier, France)	ı
Deep-ultraviolet spectroscopy in hexagonal boron nitride: from bulk to monolayer	•
12:30 – 13:00: ePoster Session	
13:00 – 14:00: Lunch Break	
14:00 – 14:30: Roman Gorbachev (The University of Manchester, UK)	ı
Atomic reconstruction in twisted TMD interfaces and their electronic properties	
14:30 – 14:45: Francisco Sanchez-Ochoa (Universidad Nacional Autonoma de Mexico, Mexico)	0
Pseudo magnetization in twisted bilayer graphene under hydrostatic pressure	_
14:45 – 15:00: Jesús Sánchez (Universidad Nacional Autónoma de México, Mexico) Steering the current flow in twisted bilayer graphene	0
15:00 – 15:30: Ke Wang (University of Minnesota, USA)	1
Mesoscopic Transport and Twistronics in Gate-defined Van der Waals Nanostructures	•
15:30 – 15:45: <i>Break</i>	
15:45 – 16:15: Emiliano Pallecchi (IEMN-Univ. Lille, France)	ı
Non-volatile analog RF-switches based on 2D materials for 5G/6G applications	
16:15 – 16:30: Itai Epstein (Tel Aviv University, Israel)	0
Nanometer-scale Cavities for Mid-infrared Light Based on Acoustic-graphene-plasmons	14
16:30 – 17:10: Tomas Palacio (MIT, USA) The Coming of Age for Two-Dimensional Electronics	K
17:10 – 17:50: Eric Pop (Stanford University, USA)	K
Electronic, Thermal, and (Some) Unusual Applications of 2D Materials	
17:50 – 18:05: Luca Francaviglia (Lawrence Berkeley National Laboratory, USA)	0
Optimized mapping of nanoscale heterogeneity in transition metal dichalcogenides enabled by sample design	l



Wednesday (03/11/2021) – Plenary Session

09:00 – 09:30: Alberto Saiani (University of Manchester, UK) Designing GO-Peptide hybrid hydrogels for tissue engineering applications	1
09:30 – 09:45: Martin Šilhavík (Institute of Physics of the Czech Academy of Sciences, Czech Republic) Synthesis of Superelastic Graphene Aerogels	0
09:45 – 10:15: Lucia Gemma Delogu (University of Padua, Italy)	ı
Biomedical applications of graphene: high dimensional approaches on immune cells	
10:15 – 10:20: Elena Pinilla Cienfuegos (Universitat Politècnica de València, Spain) Graphene functionalization with SARS-CoV-2 antibodies	PF
10:20– 10:45: Break	
10:45 – 11:15: Laura Fumagalli (University of Manchester, UK)	1
Probing electric polarization on the atomic scale: the case of van der Waals heterostructures and water con inside	fined
11:15 – 11:30: Konrád Kandrai (Centre for Energy Research, Hungary)	0
Evidence for room temperature quantum spin Hall state in the layered mineral jacutingaite (Pt2HgSe3)	
11:30 – 11:45: Zhaojun Li (Uppsala University, Sweden)	0
Mechanistic Insight to the Chemical Treatments of Monolayer Transition Metal Disulfides for Photolumines Enhancement	cence
11:45 – 12:00: Esteban Rodriguez (Universidad de Chile, Chile)	0
Spin-polarized tunable photocurrents	
12:00 – 12:15: Jose Mella (University of Chile, Chile)	0
The robustness of spin-polarized edge states in a two-dimensional semimetal without inversion symmetry	14
12:15 – 12:55: Marija Drndic (University of Pennsylvania, USA)	K
Advances in room temperature 2D ferromagnets	
12:55– 14:00: Lunch Break	
14:00 – 14:30: Yoshihiro Iwasa (University of Tokyo, Japan)	1
Emergent optical functionalities of van der Waals heterostructures of transition metal dichiacogenides	
14:30 – 15:10: Kin Fai Mak (Cornell University, USA)	K
Semiconductor moiré materials	
15:10 – 15:40: Kwabena Bediako (University of California Berkeley, USA)	I
Mapping intrinsic and extrinsic strain fields in moiré heterostructures	
15:40 – 16:00: <i>Break</i>	
16:00 – 16:15: Stefan Jarić (BioSense Institute, Serbia)	0
Fast on-site detection of Ochratoxin A by the graphene-based field-effect transistors	_
16:15 – 16:30: Fernando Jimenez Urbanos (Fondation ciRFC, France)	0
Ultrasensitive Mercury (II) Detection Platform by Engineering MoS2-Based Field-Effect Transistors	0
16:30 – 16:45: Prabhat Kumar (Institute of Physics of the Czech Academy of Sciences, Czech Republic) 3D-Graphene Based Pressure and Strain Sensor	0
16:45 – 17:00: Enrique Munoz (Pontificia Universidad Catolica de Chile, Chile)	0
Chemical sensing with graphene: A quantum field theory perspective	J
17:00 – 17:40: Andrea Alu (CUNY, USA)	
Title to be defined	



Wednesday (03/11/2021) – 2D-HAPES2021 // Workshop

09:00 – 09:45: Michael Graetzel (EPFL, Switzerland) Innovative spacer molecules for 2D perovskites enhance PV performance	Р
09:45 – 10:25: Stefaan De Wolf (KAUST, Saudi Arabia)	Κ
Perovskite tandem solar cells	
10:25 – 11:00: <i>Break</i>	
11:00 – 11:30: Antonio Agresti (Università degli Studi di Roma "Tor Vergata", Italy)	I
Title to be defined 11:30 – 12:00: Sebastiano Bellani (BeDimensional, Italy)	ı
Solution-processed 2D materials for perovskite solar cells	'
12:00 – 12:15: Yang Li (Institute of Microstructure Technology, Karlsruhe Institute of Technology, Germany)	0
Photoluminescence and Amplified Spontaneous Emission in Quasi-2D and 3D Perovskite: Influences of Excite	onic
Versus Free Carrier Emission	
12:15 – 12:45: Danila Saranin (NUST MISIS, Russia)	I
2D materials for stabilization of p-i-n perovskite solar cells	
12:45 – 14:00: Lunch Break	
14:00 – 14:30: Piotr Cegielski (AMO GmbH, Germany)	ı
Perovskite On-Chip Lasers for Photonic Integrated Circuits	
14:30 – 15:00: George Kakavelakis (University of Cambridge / CGC, UK)	1
Perovskite solar cells based on layered materials	
15:00 – 15:30: Hanna Pazniak (University of Duisburg-Essen, Germany)	I
Mastering MXenes Properties for Application in Perovskite Solar Cells	.,
15:30 – 16:10: Barry P. Rand (Princeton University, USA)	K
Brighter metal halide perovskite light emitting diodes via heat management	
16:10 – 16:40: <i>Break</i>	
16:40 – 17:10: Ferry Prins (UAM / IFIMAC, Spain)	ı
Exciton Transport in 2D Metal-Halide Perovskites	
17:10 – 17:50: Wanyi Nie (Los Alamos National Laboratory, USA)	K
Carrier transport and device applications of 2D perovskite materials	^
17:50 – 18:05: Eugenia Vasileiadou (Northwestern University, USA) Stability of 2D Hybrid Lead Halide Perovskites: Perspective from Bulk Crystals and Thin Films	0
Stability of 20 Hybrid Lead Halide Ferovskites. Ferspective from bulk Crystals and Hilli Films	



Thursday (04/11/2021) – Plenary Session

Real-time monitoring of graphene CVD growth using ultraviolet reflection 10:15 – 10:30: Rasuole Lukose (IHP, Germany) 10:30 – 11:00: Break 11:00 – 11:15: Vincent Malesys (ONERA, France) 11:00 – 11:15: Vincent Malesys (ONERA, France) 11:15 – 11:30: Hossein Beydaghi (Bedimensional S.p.A, Italy) 11:30 – 11:45: Viktor Sanderyd (Graphmatech, Sweden) 11:45 – 12:15: Kari Hjelt (Chalmers Industrial Technic, Sweden) 11:45 – 12:15: Kari Hjelt (Chalmers Industrial Technic, Sweden) 12:15 – 12:45: Johan Ek Weis (SIO Grafen, Sweden) 12:15 – 12:45: Johan Ek Weis (SIO Grafen, Sweden) 12:45 – 13:15: Gordon Harling (CMC Microsystems, Canada) 13:15 – 14:00: Lunch Break 14:00 – 14:30: Claudia Backes (University of Kassel, Germany) 14:00 – 14:30: Claudia Backes (University of Kassel, Germany) 15:00 – 15:15: Ling-Xuan Qian (University of Electronic Science and Technology of China, China) 16:15 – 15:30: Algeeth Bol (Eindhoven University of Warsaw, Poland) 17:15: 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) 18:15 – 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) 10:15:15 – 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) 10:15:15 – 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) 10:15:15 – 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) 10:15:15 – 16:45: Siddika Mertding (Istanbul Technical University, Turkey) 10:15:15 – 16:45: Siddika Mertding (Istanbul Technical University, Turkey) 10:15:15 – 16:45: Break 16:15 – 16:45: Luiz Gustavo Cancado (UFMG, Brazil) 10:17:00 – 17:15: David Bodesheim (TU Dresden, Germany) 10:10:10:10:10:10:10:10:10:10:10:10:10:1	10:15 – 10:30: Rasuole Lukose (IHP, Germany) Transfer of Graphene from 200 mm Epitaxial SI/Ge(100) Wafers and it's post-processing 10:30 – 11:00: Break 11:00 – 11:15: Vincent Malesys (ONERA, France) Development of a graphene and fluorographene based gas sensor 11:15 – 11:30: Hossein Beydaghi (Bedimensional S.p.A, Italy) Advanced 3D printed electrode based on Si and wet-jet milled few layers graphene for Li-ion batteries 11:30 – 11:45: Viktor Sanderyd (Graphmatech , Sweden) Metal-Graphene Composites – Challenges and Opportunities 11:45 – 12:15: Kari Hjelt (Chalmers Industrial Technic, Sweden) Ometal-Graphene Composites – Challenges and Opportunities 11:45 – 12:45: Johan Ek Weis (SIO Grafen, Sweden) Sweden aims to be in the top 10 countries at using graphene for industrial needs 12:45 – 13:15: Gordon Harling (CMC Microsystems, Canada) 13:15 – 14:00: Lunch Break 14:00 – 14:30: Claudia Backes (University of Kassel, Germany) Production of organic nanomaterials by liquid phase exfoliation 14:30 – 15:00: Ageeth Bol (Eindhoven University of Technology, The Netherlands) 1 Tailoring 2D transition metal chalcogenides by atomic layer deposition 15:00 – 15:15 Ling-Xuan Qian (University of Electronic Science and Technology of China, China) OHigh-quality graphene growth via roll-to-roll chemical vapor deposition 15:15 – 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) OV Wo Stage Epitaxial Growth of Boron Nitride – Advantages and Prospects 15:30 – 15:45: Siddika Mertding (Istanbul Technical University, Turkey) OSynthesis of multilayer graphene encapsulated iron nanoparticles using chemical vapor deposition from Fesulphate based precursors 15:45 – 16:15: Break 16:15 – 16:45: Luiz Gustavo Cancado (UFMG, Brazil) Metrological framework for quality control of mass-produced graphene 16:45 – 17:00: Miguel Sinusia Lozano (Universitat Politècnica de València, Spain) OECVD of Graphene on sapphire substrates: A Design of Experiments (DOE) approach	09:00 – 09:30: Andrew J. Pollard (National Physical Laboratory, UK) Advances in Standardisation and Quality Control 09:30 – 10:00: Chao Gao (GaoxiTech/Zhejiang University, China) Title to be defined 10:00 – 10:15: Yui Ogawa (NTT Basic Research Laboratories, NTT Corporation, Japan)	I I O
Development of a graphene and fluorographene based gas sensor 11:15 - 11:30: Hossein Beydaghi (Bedimensional S.p.A, Italy) Odwanced 3D printed electrode based on Si and wet-jet milled few layers graphene for Li-ion batteries 11:30 - 11:45: Viktor Sanderyd (Graphmatech , Sweden) Metal-Graphene Composites - Challenges and Opportunities 11:45 - 12:15: Kari Hjelt (Chalmers Industrial Technic, Sweden) Industrial Technic, Sweden) Sweden aims to be in the top 10 countries at using graphene for industrial needs 12:45 - 12:45: Johan Ek Weis (SIO Grafen, Sweden) Sweden aims to be in the top 10 countries at using graphene for industrial needs 12:45 - 13:15: Gordon Harling (CMC Microsystems, Canada) An overview of research and resources in Canada 13:15 - 14:00: Lunch Break 14:00 - 14:30: Claudia Backes (University of Kassel, Germany) Production of organic nanomaterials by liquid phase exfoliation 14:30 - 15:00: Ageeth Bol (Eindhoven University of Technology, The Netherlands) 15:10 - 15:15 Ling-Xuan Qian (University of Electronic Science and Technology of China, China) 15:10 - 15:15 Ling-Xuan Qian (University of Warsaw, Poland) OHigh-quality graphene growth via roll-to-roll chemical vapor deposition 15:10 - 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) OHigh-quality graphene growth via roll-to-roll chemical vapor deposition 15:10 - 15:45: Siddika Mertdinc (Istanbul Technical University, Turkey) Synthesis of multilayer graphene encapsulated iron nanoparticles using chemical vapor deposition from Fesulphate based precursors 15:45 - 16:15: Break 16:15 - 16:45: Luiz Gustavo Cancado (UFMG, Brazil) Metrological framework for quality control of mass-produced graphene 16:45 - 17:00: Miguel Sinusia Lozano (Universitat Politècnica de València, Spain) PECVD of Graphene on sapphire substrates: A Design of Experiments (DoE) approach 17:00 - 17:15: David Bodesheim (TU Dresden, Germany)	11:00 – 11:15: Vincent Malesys (ONERA, France) Development of a graphene and fluorographene based gas sensor 11:15 – 11:30: Hossein Beydaghi (Bedimensional S.p.A, Italy) OAdvanced 3D printed electrode based on Si and wet-jet milled few layers graphene for Li-ion batteries 11:30 – 11:45: Viktor Sanderyd (Graphmatech, Sweden) Metal-Graphene Composites – Challenges and Opportunities 11:45 – 12:15: Karl Hjelt (Chalmers Industrial Technic, Sweden) Commercialization of Graphene Flagship research 12:15 – 12:45: Johan Ek Weis (SIO Grafen, Sweden) Sweden aims to be in the top 10 countries at using graphene for industrial needs 12:45 – 13:15: Gordon Harling (CMC Microsystems, Canada) 13:15 – 14:00: Lunch Break 14:00 – 14:30: Claudia Backes (University of Kassel, Germany) Production of organic nanomaterials by liquid phase exfoliation 14:30 – 15:00: Ageeth Bol (Eindhoven University of Technology, The Netherlands) 13:10-ring 2D transition metal chalcogenides by atomic layer deposition 15:00 – 15:15 Ling-Xuan Qian (University of Electronic Science and Technology of China, China) 15:15 – 15:30: Aleksandra Dabrowska (University of Warsaw, Poland) OYWO Stage Epitaxial Growth of Boron Nitride – Advantages and Prospects 15:30 – 15:45: Siddika Mertding (Istanbul Technical University, Turkey) OSynthesis of multilayer graphene encapsulated iron nanoparticles using chemical vapor deposition from Fesulphate based precursors 15:45 – 16:15: Break 16:15 – 16:45: Luiz Gustavo Cancado (UFMG, Brazil) Metrological framework for quality control of mass-produced graphene 16:45 – 17:00: Miguel Sinusia Lozano (Universitat Politècnica de València, Spain) OPECVD of Graphene on sapphire substrates: A Design of Experiments (DoE) approach 17:00 – 17:15: David Bodesheim (TU Dresden, Germany) In silico polymerization of 2D Polymers at water-surfactant monolayer interfaces 17:15 – 17:30: Xiaoyan Zhang (Chalmers University of Technology, Sweden) Ochemical functionalization of 2D materials	• • • • • • • • • • • • • • • • • • • •	0
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All-Electrochemical nanofabrication of stacked ternary metal sulfide/graphene electrodes for high performance	alkaline batteries	All-Electrochemical nanofabrication of stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for high performance of the stacked ternary metal sulfide/graphene electrodes for the stacked ternary metal sulfide/graphene electrod	nce



Thursday (04/11/2021) - 2D-HAPES2021 // Workshop

09:00 – 09:40: Giulia Grancini (Università degli studi di Pavia, Italy)	K
Understanding and Optimizing Interface Energetics and Processes: an essential step towards efficient and sta	ıble
2D/3D perovskite solar cells	
09:40 – 09:55: Saba Gharibzadeh (Karlsruhe Institute of Technology, Germany)	0
Simultaneous Interfacial and Grain-Boundary Passivation for Highly Efficient Inverted Methylammonium-Free	j
Perovskite Solar Cells	
09:55 – 10:10: Yury Kapitonov (St.Petersburg State University, Russia)	0
Hybrid Organic-Inorganic Halide Post-Perovskite 3-Cyanopyridinium Lead Tribromide	
10:10 – 10:25: Mala Maruthi (Indian Institute of Technology, India)	О
Broad emission from the structural distortions induced by substituting trivalent element Sb3+ in low	
dimensional halide perovskites	
10:25– 11:00: Break	
10.25— 11.00. Break	
11:00 – 11:30: Byungha Shin (KAIST, Korea)	I
Efficient, Stable Silicon Tandem Cells Enabled by Anion-engineered Wide-Bandgap Perovskites	
Semiconductor Series	
11:30 – 12:10: Shengzhong Liu (Shaanxi Normal University, China)	K
Title to be defined	
12:10 – 12:25: Kshetra mohan Dehury (Indian Institute of Technology Delhi, India)	О
Linear and Nonlinear Optical Excitons in Primary Cyclic Ammonium Based Inorganic-Organic Hybrid	
12:25 – 13:00: ePoster Session	
42.00 44.00 L wh Dwyl	
13:00 – 14:00: Lunch Break	



Friday (05/11/2021) – Plenary Session

09:00 – 09:15: Oliver Burton (University of Cambridge, UK)	О
A Peeling Systematic Study: Holistic Catalyst Design for 2D Material Application	
09:15 – 09:30: Mirko Frappa (ITM-CNR, Italy)	0
Enhancement of PVDF-based membranes with 2D materials for efficient performance in Membrane Distillatio	n
and Membrane Crystallization	
09:30 – 09:45: Rodolfo Fernández-Martinez (CIEMAT, Spain)	0
Suitability of NiO-ZnO-rGO sorbents for removal of hydrogen sulphide at intermediate temperatures	
09:45 – 10:00: Nikodem Szpak (University of Duisburg-Essen, Germany)	0
Gradient-index electron optics in graphene p-n junctions	
10:00 – 10:15: Ekaterina Sukhanova (Institute of Biochemical Physics NM Emanuel, Russia)	0
2D carbon-metal frameworks for photochemical reactions promotion	
10:15 – 10:30: Vit Jakubsky (Nuclear Physics Institute of the CAS, Czech Republic)	0
Super-Klein tunneling of Dirac fermions through electrostatic gratings in graphene	
10:30– 11:00: Break	
11:00 – 11:15: Aleksandr Rodin (Yale-NUS College, Singapore)	О
Julia Library for QFT in Graphene	
11:15 – 11:30: Fernan Saiz (King Abdullah University of Science and Technology, Saudi Arabia)	0
Atomistic Modelling of Point Defects in Amorphous and Crystalline Phases of Ultra-thin Boron Nitride	
11:30 – 11:45: Jeremy A Good (Cryogenic Ltd, UK)	0
Title to be defined	
11:45 – 12:15: Hanako Okuno (CEA, France)	Ι
Title to be defined	
12:15 – 12:30: Jakub Jagiełło (Łukasiewicz Research Network–Inst. of Microelectronics and Photonics, Poland) Determining the number of graphene layers based on Raman response of the SiC substrate	0

12:30: Closing