

International Conference

nanoGe September Meeting 2017 (SeptemberMeeting17)

SE3: 2D Nanomaterials Synthesis and Applications

Barcelona, Spain, 2017 September 6th - 8th

Conference Chairs: Hermenegildo García and Ana Primo

Conference Program

September 6th - Day 3 (Wednesday)	
16:30 - 18:05	Registration 7-8 Sept
September 7th - Day 4 (Thursday)	
07:30 - 08:45	Registration
08:45 - 09:00	Opening
	SE3.1 Chair: Tierui Zhang
09:00 - 09:35 SE3.1-I4	<u>Hongwei Zhu</u> (<i>School of materials science and engineering, Tsinghua University</i>) Graphene-on-surfaces: structural design and multifunctional applications
09:35 - 09:45	Discussion
09:45 - 10:00 SE3.1-O2	<u>Guoke Zhao</u> (<i>Tsinghua University</i>), Hongwei Zhu Integration of Perovskite Quantum Dots into Graphene-Si Heterojunction Solar cells
10:00 - 10:35 SE3.1-I1	<u>Bruce Parkinson</u> (<i>University of Wyoming</i>) Van der Waals Epitaxial Growth, Patterning and Properties of 2D Transition Metal Dichalcogenides
10:35 - 10:45	Discussion

10:45 - 11:15 SE3.1-O1	<u>Rosanna Mastria</u> (<i>IMM-CNR, Institute for Microelectronics and Microsystems – Unit of Lecce</i>), Salvatore Gambino, Riccardo Scarfiello, Adriano Cola, Concetta Nobile, Cinzia Giannini, P. Davide Cozzoli, Aurora Rizzo Synthesis and characterization of two-dimensional colloidal WS₂ nanosheets as promising building blocks for highly conductive WS₂ thin-films
11:15 - 11:45	Coffee Break
11:45 - 12:20 SE3.1-I2	Diego Mateo, Ivan Esteve-Adell, <u>Josep Albero</u> (<i>ITQ (UPV-CSIC)</i>), Ana Primo, Hermenegildo Garcia Oriented 2.0.0 Cu₂O nanoplatelets supported on few-layers graphene as efficient visible light photocatalyst for overall water splitting
12:20 - 12:30	Discussion
12:30 - 13:05 SE3.1-I3	<u>Leonid Ponomarenko</u> (<i>Lancaster University, UK</i>), Roshan Krishna Kumar, Xi Chen, Gregory Auton, Artem Mishchenko, Denis Bandurin, Sergey Morozov, Yang Cao, Katya Khestanova, Moshe Ben Shalom, Vladimir Falko, Andre Geim High-temperature quantum oscillations in graphene superlattices
13:05 - 13:15	Discussion
13:15 - 15:00	Lunch
	SE3.2 Chair: Bruce Parkinson
15:00 - 15:30 SE3.2-O1	<u>Riccardo Scarfiello</u> Direct synthesis and characterization of colloidal WS₂ nanoplatelets
15:30 - 15:45 SE3.2-O4	<u>Jing Li</u> (<i>Tsinghua University</i>), Hongwei Zhu Nanofibrous Membrane of Graphene Oxide/Polyacrylonitrile Composite with a Low Filtration Resistance for the Effective Capture of PM_{2.5}
15:45 - 16:00 SE3.2-O5	<u>Diego Mateo</u> (<i>ITQ (UPV-CSIC)</i>), Ivan Esteve-Adell, Josep Albero, Ana Primo, Hermenegildo Garcia 111 oriented Au nanoplatelets on multilayer graphene as visible light photocatalyst for overall water splitting
16:00 - 16:15 SE3.2-O2	<u>Min Wang</u> (<i>Tsinghua University</i>), Hongwei Zhu Safe synthesis and application of two-dimensional MXene Ti₃C₂Tx
16:15 - 16:30 SE3.2-O3	<u>Huan Ren</u> (<i>University of Limerick, Ireland</i>) Synthesis and characterization of Cu₂ZnSnSe₄ tetrapod nanocrystals
17:00 - 18:30	Poster exhibition
20:00 - 22:00	Social Dinner

September 8th - Day 5 (Friday)

SE3.3

Chair: Hongwei Zhu

09:00 - 09:35 SE3.3-I1	<u>Tierui Zhang</u> (<i>Technical Institute of Physics and Chemistry, Chinese Academy of Sciences</i>) 2D nanostructured photocatalysts for efficient solar fuels
09:35 - 09:45	Discussion
09:45 - 10:20 SE3.3-I2	<u>Pagona Papakonstantinou</u> (<i>Engineering Research Institute (ERI), School of Engineering, Ulster University, Newtownabbey, BT37 0QB, UK</i>) 2D crystals for Electrocatalysis
10:20 - 10:30	Discussion
10:30 - 11:05 SE3.3-I3	<u>Menny Shalom</u> (<i>Chemistry Department, Ben Gurion University of the Negev</i>) Carbon Nitride Materials for Artificial Photosynthesis
11:05 - 11:15	Discussion
11:15 - 11:45	Coffee Break
11:45 - 12:20 SE3.3-I4	<u>Ester Vázquez</u> (<i>Instituto Regional de Investigación Científica Aplicada (IRICA), Universidad de Castilla-La Mancha, Ciudad Real, (Spain)</i>) Graphene for Bioapplications: Preparation, Cytotoxicity and In-tegration in 3D-scaffolds
12:20 - 12:30	Discussion
12:30 - 12:45 SE3.3-O1	<u>Ruirui Hu</u> (<i>School of materials science and engineering, Tsinghua University</i>), Hongwei Zhu A Graphene Oxide Controlled Wrinkled and Sandwich-Structured Nanofiltration Composite Membrane with Ultrafast Water Transport
12:45 - 13:00 SE3.3-O2	<u>Meirong Huang</u> (<i>Tsinghua University</i>), Hongwei Zhu Gradient-doped bulky crystalline BiVO ₄ for water splitting
13:00 - 13:15 SE3.3-O3	<u>Guilherme Almeida</u> (<i>Department of Nanochemistry, Istituto Italiano di Tecnologia (IIT), via Morego 30, I-16163 Genova, Italy</i>), Sedat Dogan, Giovanni Bertoni, Cinzia Giannini, Roberto Gaspari, Stefano Perissinotto, Roman Krahne, Liberato Manna Colloidal Monolayer β -In ₂ Se ₃ Nanosheets with High Photoresponsivity
13:15 - 13:25	Closing