

April 05-07 2017	TENTATIVE SCIENTIFIC PROGRAM	
Day 1	5-Apr-17	
Breakout Room 1		
5-Apr-17	5-Apr-17	
08:30-09:00	Registrations	
09:00-09:15	Opening Ceremony	
Keynote Forum		
09:15-09:30	Introduction	
Keynote		
09:30-10:00	Masaru Matsuo , Dalian University of Technology, China	
10:00-10:30	Kattesh V. Katti , Institute of Green Nanotechnology, University of Missouri, Columbia, Missouri, USA	
10:30-11:00	Leonhard Grill , University of Graz, Austria	
Coffee break: 11:00-11:15		
11:15-11:45	Haruo Sugi , Teikyo University Medical School, Japan	
11:45-12:10	Mukunda P Das , The Australian National University, Australia	
Session Introduction		
Nanomaterials Nanodevices		
Session Chair		
12:10-12:30	Title: Matrix assisted pulsed laser deposition of hybrid graphene-based functional thin films	
	Ángel Pérez del Pino , Instituto de Ciencia de Materiales de Barcelona, Spain	
12:30-12:45	Title: Computational Exploration and Design of Nanoscale Sensors and Devices	
	Jerry Bernholc , North Carolina State University, USA	
12:45-13:00	Title: Design of ligated metallic nanoclusters with catalytic and nonlinear optical properties for hydrogen storage and bio-imaging	
	Vlasta Bonačić-Koutecký , Humboldt Universität zu Berlin, Germany	
Lunch: 13:00-13:30		
13:30-13:55	Title: Localised Quantum States of Atomic and Molecular Particles Physisorbed on Carbon-Based Nanoparticles	
	Vladimír Špirko , Academy of Sciences of the Czech Republic, Czech Republic	
13:55-14:10	Title: Versatility of Layered Double Hydroxide platelets in Polymer Nanotechnologies	
	Fabrice LEROUX , Institut de Chimie de Clermont-Ferrand (ICCF), France	
14:10-14:25	Title: Controlled synthesis of semiconducting and metallic single-wall carbon nanotube film	
	Chang Liu , Chinese Academy of Sciences, China	
14:25-14:40	Title: Toughening by nano-scaled gradient interface in amorphous/nanocrystallineZrCu/Cu multilayered films	

	Jacob C. Huang , National Sun Yat-Sen University, Kaohsiung, Taiwan
14:40-14:55	Title: Photoinduced electron transfer dynamics of CdSe quantum dots on single crystal rutile-TiO₂: Dependence on the crystal orientation of the substrate
	Taro Toyoda , The University of Electro-Communications, Japan
Coffee break: 14:55-15:15	
Session Introduction	
15:15-15:30	Title: Carbon nanotube thermoacoustic projector
	Ali E. Aliev , University of Texas at Dallas, USA
15:30-15:45	Title: Nanostructured Metal Oxides for Organic and Perovskite Solar Cells
	Monica Lira-Cantu , Catalan Institute of Nanoscience and Nanotechnology, Spain
15:45-16:00	Title: Electronic Properties of Two-Dimensional Materials: Inorganic to Organometallic Materials
	Hong Seok Kang , Jeonju University, SOUTH KOREA
16:00-16:15	Title: Gigantic Challenges, Nano-Solutions
	Maher S. Amer , Wright State University, USA
16:15-16:30	Title: Strategies to prepare highly luminescent organolead bromide nanoparticle colloids
	Julia Pérez-Prieto , University of Valencia, Spain
16:30-16:45	Title: Tumour regression after intravenous administration of novel tumour-targeted nanomedicines
	Christine Dufès , University of Strathclyde, Glasgow, United Kingdom
16:45-17:00	Title: Challenging the bulk limit: Formation of high-moment nanoparticles in superfluid
	Shengfu Yang , University of Leicester, UK
17:00-17:15	Title: New 2D/3D nanocomposites based on graphene and graphene flakes as a platform for photovoltaic and electronic nanodevices
	Olga E. Glukhova , Saratov State University, Russia
17:15-17:30	Title: Topology-driven effects in advanced nanoarchitectures
	Vladimir M. Fomin , Institute for Integrative Nanosciences, Germany
17:30-17:45	Title: Biosynthesis of Iron Oxide Nanoparticles using Aqueous Neem Extracts and Its Application
	Fawzi Banat , The Petroleum Institute, United Arab Emirates
17:45-18:00	Title: Synthesis of nanostructured NiO by hydrothermal route for H₂S gas sensor
	Gotan Hirralal Jain , KKHA Arts, SMGL Commerce and SPHJ Science College, India.
18:00-18:15	Title: Synthesis and characterization of a novel hybrid nanomaterial for X-ray induced singlet oxygen generation
	Roberta Tatti , Institute of Materials for Electronics and Magnetism, National Research Council, Italy
18:15-18:30	Title: Supercritical hydrothermal synthesis of amino-acid-displaying water-dispersible In₂O₃ nanocrystal and their optical properties
	Mehrnoosh Atashfaraz , National Iranian Oil Refining and Distribution Company, Iran
18:30-18:45	Title: Hydrothermally synthesized nano TiO₂ thick films for gas sensing application
	S. D. Shinde , KKHA Arts, SMGL Commerce and SPHJ Science College, India
18:45-19:00	Title: Kinetics of silver and gold nanoparticles in mono- and binary hydrosols with sonication
	Stoinova Anastasia , RUDN University, Russia
19:00-19:15	Title: Anomalies in band gaps of metal oxides
	Norlida Kamarulzaman , Universiti Teknologi MARA, Malaysia

19:15-19:30	Title: TiO₂-based electrochemical sensor for the sensitive determination of dopamine
	J. V. Medina-Flores, Instituto Politécnico Nacional (IPN), México
19:30-19:45	Title: Synthesis of Nanocrystalline BaTiO₃ by Hydrothermal Method for H₂S Gas Sensing Application
	R.P. Patil, Bhonsala Military College, India
19:45-20:00	Title: Realizing Electroactive Flow Switch by Using Functionally Antagonistic Graphene Coated Mesh
	Rassoul Tabassian, Korea Advanced Institute of Science and Technology, Republic of Korea
Day 2	6-Apr-17
Keynote	
09:00-09:30	Terry Wilkins, University of Leeds, UK
09:30-10:00	Dominique Delille, IThermo Fisher Scientific, The Netherlands
10:00-10:30	Udo Schwingenschlogl, KAUST, Saudi Arabia
10:30-11:00	Jorge M Garcia, Instituto de Microelectronica de Madrid -CNM, Spain
Coffee break: 11:00-11:15	
11:15-11:45	Z.A. Mansurov, The Institute of Combustion Problems, al-Farabi Kazakh National University
Session Introduction	
Nanomedicine and Biomedical Engineering	
Session Chair	Nekane Guarrotxena, Nanohybrid and Polymer Interactive Group, Spain
11:45-12:00	Title: SERS nanoTag: a promising tool in biomedical nanotheranostic
	Nekane Guarrotxena, Nanohybrid and Polymer Interactive Group, Spain
12:00-12:15	Title: Synthesis of Functional Nanoparticles encapsulated in the Proteins
	Hideyuki Yoshimura, Meiji University, Japan
12:15-12:30	Title: All-2D semiconductor/metal contacts
	Udo Schwingenschlöggl, KAUST, Saudi Arabia
12:30-12:45	Title: Create and Control Low Dimensional Electron System at Transition Metal Oxides
	M. Radović, Paul Scherrer Institute, Switzerland
12:45-13:00	Title: Organic Radical Molecules for Spintronics
	JAUME VECIANA, Institut de Ciència de Materials de Barcelona, Spain
13:00-13:15	Title: RF Heating of Iron Doped CNTs in Gelatine
	Zbigniew Kolacinski, Lodz University of Technology, Poland
13:15-13:30	Title: Nanoparticles application in cancer drug delivery and diagnosis
	Tomasz Ciach, Warsaw University of Technology, Poland
Lunch: 13:30-14:00	
14:00-14:15	Title: Bionic nanoscopic carriers for precision drug delivery
	Giuseppe Battaglia, University College London, UK
14:15-14:30	Title: Synthesis of Carbon Nanotubes Filled with Iron for Cancer Treatment
	Lukasz Szymanski, Lodz University of Technology, Poland
14:30-14:45	Title: Opening of penetration mechanism of lipoproteins with atherogenic properties into the intima of the arteries at the atomic and molecular level
	Olga E. Glukhova, Saratov State University, Russia
14:45-15:00	Title: Chungnam National University School of Medicine, South Korea
	Hyun Soo Lim, Chungnam National University School of Medicine, South Korea
15:00-15:15	Title: Prevent doxorubicin chemoresistance and cardiotoxicity by metronomic treatment of breast cancer with DOX-loaded ferritin nanocages
	Mazzucchelli Serena, University of Milan, Italy
15:15-15:30	Title: Gaseous fluorination of nanocarbons for energy storage

Katia Guérin, Université Blaise Pascal, France

15:30-15:45	Title: Diagnosis of human lung cancer cells at different grades using hyperspectral imaging microscopy
	Yu-Sheng Huang , National Chung Cheng University, Taiwan
Coffee break & Posters: 15:45-16:15	
Posters:	
	Title: Electrospinning and characterization of biodegradable polyester based polyurethane nanofibers for cardiovascular applications
	Ewa Kijeńska , Warsaw University of Technology, Poland
	Title: Effect of TiO₂ nanoparticles on the corrosion property of novel Sn_{3.5}Ag_{0.5}Bi solders
	L. C. Tsao , Pingtung University of Science & Technology, Taiwan
	Title: Nanoporous Silica Aerogel Membranes for CO₂ Capture
	Yi-Feng Lin , Chung Yuan Christian University, Chungli, Taoyuan, Taiwan
	Title: 3D Printing in Catalysis: Combining 3D heterogeneous Copper and Palladium Catalysts for Multicatalytic Multicomponent Reactions
	Alberto Coelho , Centro Singular de Investigación en Química Biológica y Materiales Moleculares, Spain
	Title: A molecular dynamics simulation study of the structural and mechanical properties of nanoparticle – reinforced acrylate composites
	Ommeaymen Sheikhejad , Johannes Kepler Universität Linz, Austria
	Title: In vitro characterization of drug eluting and shape -memory polymer networks for cardiovascular applications
	Monika Bil , Warsaw University of Technology, Poland
	Title: Structure characterization of SrTiO₃ synthesized from hydrothermal method and its photocatalytic activity enhancement through coupling of graphene oxide
	Chechia Hu , Chung Yuan Christian University, Taiwan
	Title: Job Creation Effect of Nanotechnology in South Korea
	Yeon Joo Jeong , National Nanotechnology Policy Center(NNPC), South korea
	Title: Nanotechnology in automotive industry as a pollution sources of road environments
	Ewa Adamiec , AGH University of Science and Technology, Poland
	Title: Influence of Nano-Ag precipitation on properties of high-strength and high-conductivity Cu-7.9wt%Ag alloy
	Engang Wang , Northeastern University, P. R. China
	Title: A rapid tuberculosis detection by antigen-antibody interaction based on fluorescence assays using nanomaterials
	Tae Jung Park , Chung-Ang University, Republic of Korea
	Title: THz-nanodetector on the Base of Hybrid Carbon Nanostructure
	O.E. Glukhova , Saratov State University, Russia
	Title: A new way to control the electronic properties of graphene nanoribbons by changing the concentration of epoxy groups and their configuration
	Olga E. Glukhova , Saratov State University, Russia
	Title: Wet-chemical functionalization of SiC/SiO_x core/shell nanowires: new routes to create oxidative stress-generating nanomaterials with tailored functionalities
	Melanie Timpel , Institute of Materials for Electronics and Magnetism - National Research Council, Italy
	Title: Photo-thermal Effect of Integrated Gold Nanorods and Iron Oxide on Graphene Oxide
	Al eum Jeong , Kumoh National Institute of Technology, South Korea
	Title: Short Term Environmental Effects and their Influence on Spatial Homogeneity of Organic Solar Cell Functionality

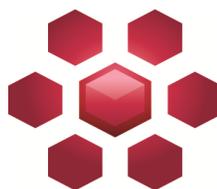
Huei -Ting Chien , Institute of Solid State Physics, Graz University of Technology, Austria
Title: Mesostuctured Fe₂O₃@ MCM41 sorbents for mid-temperature H₂S removal
Claudio Cara , Università di Cagliari, Italy
Title: Photoelectrochemical characteristic effects of Monolayer n-type MoS₂ grown on p-type Cu₂O
Yu-Hsin Weng , National Chung Cheng University , Taiwan
Title: Synthesis of Fe₃O₄ Coated Au Nanorod/Ag/SiO₂ Core/Shell/Shell Structure and Its Anticancer Effect
Noor Atiqa Binti Mat Saleh , Kumoh National Institute of Technology, South Korea
Title: Functional graphene oxide coatings on metallic surfaces
Aleksandra Poniatowska. , Warsaw University of Technology, Poland
Title: Structural characterisation and tablettability of diclofenac sodium-titanate nanotube composites
Barbara Sipos , University of Szeged, Hungary
Title: Hydroxyapatite nanoparticles properties in lecithin-based wet chemical precipitation
Michał Wojasiński , Warsaw University of Technology, Poland
Title: Hemocompatibility of the polypropylene membranes surfaces
Ilona Łojczyk , Warsaw University of Technology, Poland
Title: Polyurethane modification using acrylic acid
Aleksandra Kuźmińska , Warsaw University of Technology, Poland
Title: The state of hydrogen-bonding in lead bromide perovskites in low temperature phases
TINGTING yin , Nanyang Technological University, Singapore
Title: Soft Artificial Muscles with Three-Dimensional Carbon-Metal Heteronanostructures
Jaehwan Kim , Korea Advanced Institute of Science and Technology, Republic of Korea
Title: General electromagnetic eigenstates in a two-constituent composite medium and the electric field of external current sources
Asaf Farhi , Tel Aviv University, Israel
Title: Study of the Toxic effects induced by Iron Oxide Nanoparticles on SH-SY5Y neuroblastoma cell line
Dalel ASKRI , Univ. Grenoble Alpes, France
Title: Electrochemical synthesis of high performance tungsten sulfide for hydrogen evolution reaction
Shu Min Tan , Nanyang Technological University, Singapore
Title: Lifetime of Photo-induced Charge Carriers in PEC Electrode Systems for Solar Hydrogen Evolution
Hyun Kim and Bee Lyong Yang , Kumoh National Institute of Technology, South Korea
Title: The impact of natural dyes on dental composite materials modified by means of hydroxyapatite
Zofia Kula , Lodz University of Technology, Poland
Title: Optical properties of few-layer MoS₂ film using hyper spectral imaging
Wei-Cheng Lo , National Chung Cheng University, Taiwan
Title: Synthesis of rare earth hybrid nanoparticles in the apoferritin cavity
Keita Kontani , Meiji University, Japan
Title: Effects of ultrasonic surface mechanical attrition treatment on microstructures and mechanical properties of hightentropy alloys
M. T. Tsai , National Sun Yat-Sen University, Taiwan
Title: Multifunctional polyurethanes/chitosan composites for biomedical applications
Żaneta Górecka , Warsaw University of Technology, Poland
Title: A novel specific size range purification of MoS₂ nano-particle
Yun-Chung Chou , National Chung Cheng University, Taiwan
Title: Design and characterization of bimagnetic spinel ferrite core-shell nanoparticles
Marco Sanna Angotzi , Università di Cagliari, Italy
Title: Dry coating technology to design supported catalysts: application for Fischer-Tropsch reaction
Xuemei LIU and Nouria FATAH , Unité de Catalyse et Chimie du Solide, France.

Title: Detection of Periodontal Disease by Hyperspectral Imaging	
Chiu-Jung Lai, National Chung Cheng University, Taiwan	
Title: Optical calculation of ultrashort pulsed Bessel beam	
Chung-Hao Chang, National Chung Cheng University, Taiwan	
Session Introduction	
Nanophotonics and Optics	
Nanostructures	
Nanotechnology for Energy and the Environment	
Risks and Regulation of Nanotechnology	
Session Chair	
16:15-16:30	Title: Optical properties modification of glass substrates by femtosecond laser for integrated optics or photonics Bertrand Poumellec, Université Paris Sud in Université Paris Saclay, France
16:30-16:45	Title: Hyperspectral imaging of structure and composition in atomically 2D graphene and MoS₂ Hsiang-Chen Wang, National Chung Cheng University, Taiwan
16:45-17:00	Title: Multiferroics: from bulk to thin films (a comprehensive neutron and Raman light scattering investigation) Clemens Ulrich, The University of New South Wales, Australia
17:00-17:15	Title: Modeling of Light Beaming and Super-Collimation of Light beyond Heisenberg's Uncertainty Principle Kuan-Ren Chen, National Cheng Kung University, Taiwan
17:15-17:30	Title: Skyrmion trajectories in confined geometries Carles Navau, Universitat Autònoma de Barcelona, Spain
17:30-17:45	Title: Synthesis of zeolitic catalysts for DeNO_x applications Manuel Moliner, Universidad Politécnica de Valencia, Spain
17:45-18:00	Title: Tunable stacking-dependent Electro and Optical Properties in 2D Materials Ze Xiang Shen, Nanyang Technological University, Singapore
18:00-18:15	Title: Design of a highly photocatalytically active ZnO/CuWO₄ nanocomposite Saim Emin, University of Nova Gorica, Slovenia
18:15-18:30	Title: Enhanced photocatalytic performance of nitrogen-doped TiO₂ nanotube arrays using facile annealing process Jihperng Leu, National Chiao Tung University, Taiwan
18:30-18:45	Title: Wireless sensors with transparent and stretchable nanostructures Jang-Ung Park, Ulsan National Institute of Science and Technology, Republic of Korea
18:45-19:00	Title: Direct laser writing of new optical properties in a silver-containing phosphate glass E.O. Smetanina, CEA, CNRS, CELIA, France
Cocktails	Cocktails 19:30-20:30
Cocktails	Cocktails
Day-3	7-Apr-17
Keynote	
09:00-09:30	Istvan Halasz, PQ Corporation, USA

09:30-10:00	Ibrahim Abdulhalim, Ben-Gurion University of the Negev, Israel
10:00-10:30	Bingqing Wei, University of Delaware, USA
Nanobiotechnology Nanoelectronics Nanofabrication	
Session Chair	Réнал Backov, Université de Bordeaux, France
10:30-10:50	Title: Novel Silica/Enzyme/Bacteria-Based Hybrid Foams Bearing Unprecedented Catalytic Properties
	Réнал Backov, Université de Bordeaux, France
10:50-11:10	Title: Nano-scale surface modification for medical devices
	Tomasz Ciach, Warsaw University of Technology, Poland
11:10-11:30	Title: Switching dynamics and magnetic molecules
	Jonas Fransson, Uppsala University, Sweden
11:30-11:45	Title: Design and Characterization of Novel FeMn-coated Polypropylene Nanodevices as Micro-robotic Magnetic Platforms for Drug Delivery Applications
	Miguel Guerrero Hernandez, Universitat Autònoma de Barcelona, Spain
11:45-12:00	Title: Characterization of the transport properties and the bioactivity of polysulfone membranes containing gramicidin
	Tania Gumí, Universitat Rovira i Virgili, Spain
12:00-12:15	Title: Carbon nanotubes on glass-cloth: new electrically conductive textile
	G.T. Smagulova, Institute of Combustion Problems, Kazakhstan
12:15-12:35	Title: Sponges and aerogels based on carbon nanomaterials
	F.R. Sultanov, Institute of Combustion Problems, Kazakhstan
Materials Science	
Introduction	
Session Chair	E. Bertran-Serra, Universitat de Barcelona, Spain
12:35-12:55	Title: New carbon based nanostructures grown by chemical vapor deposition
	E. Bertran-Serra, Universitat de Barcelona, Spain
12:55-13:15	Title: Modeling motor molecules
	Michel A. Van Hove, Hong Kong Baptist University, Hong Kong, China
Lunch: 13:15-14:00	
14:00-14:20	Title: Structural changes in commercial glassy carbons as a function of heat-treatment temperature, according to Raman spectroscopy and X-ray diffraction
	S.S. Bukalov, Raman Spectroscopy of the Russian Academy of Sciences, Russia
14:20-14:40	Title: PROBLEMS OF ELECTRONIC STRUCTURE IN MATERIALS CHEMISTRY
	Natalia Chezhina, Sankt-Petersburg State University, Russia
14:40-15:00	Title: Physics at Nanoscale: New Insights thanks to Advances in Experimental Tools at the Paul Scherrer Institute
	Joël Mesot, Paul Scherrer Institute, Switzerland
15:00-15:20	Title: Dye Copolymerized Fluorescent Silica Nanoparticles for Reporter, Marker and Sensor Applications
	Gabor Patonay, Georgia State University, USA
15:20-15:40	Title: Effect of gel modification and Nanoparticles on Periodic Precipitation
	Rabih Sultan, American University of Beirut, Lebanon
15:40-16:00	Title: Alginate films encapsulating polyphenols for nutraceutical and biomedical applications
	Ricardo Lagoa, ESTG-Instituto Politécnico de Leiria, Leiria, Portugal

16:00-16:20	Title: Twin-roll-cast Al/Mg/Al clad sheets with excellent tensile and interfacial bonding properties
	Sunghak Lee , Pohang University of Science and Technology, Republic of Korea
16:20-16:40	Title: Development of 3D-printed catalysts for multicomponent reactions
	Alberto Coelho , Centro Singular de Investigación en Química Biológica y Materiales Moleculares, Spain
16:40-17:00	Title: Predictive Multiscale Modelling in Materials Sciences: Chemisorption of Glycine on Cu(110)
	Judith B. Rommel , University of Cambridge, United Kingdom
17:00-17:20	Title: Novel insights into local structure of Ge-Sb-Te based phase-change thin films
	Andriy Lotnyk , Leibniz Institute of Surface Modification, Germany
17:20-17:40	Title: Dynamics of a compositional flow on porous media
	K. Alex Chang , National Pingtung University, Taiwan
17:40-18:00	Title: Towards Understanding and Engineering the Properties of Perovskites for LED and Solar Cell Applications
	Ze Xiang Shen , Nanyang Technological University, Singapore
18:00-18:20	Title: The development of microhardness homogeneity in Al-6061 metal matrix composite processed by high-pressure torsion
	Saleh N. Alhajeri , College of Technological Studies, Kuwait
18:20-18:40	Title: Radiation effects on the mechanical properties of SiO₂-B₂O₃-Na₂O glasses
	Delays Jean-Marc , CEA Marcoule, France
18:40-19:00	Title: Fouling removal using high power ultrasound for effective maintenance of offshore pipelines
	Premesh Shehan Lowe , Brunel University, UK
19:00-19:20	Title: Monolithically integrated MIM 3D capacitors with flat top contact
	Alfonso Martin , Tyndall National Institute of the University College Cork Cork, Ireland.
19:20-19:40	Title: Highly sensitive nano-membrane based potentiometric thin-film microchips responsive for some cations
	Hassan Arida , Taif University, Saudi Arabia
19:40-20:00	Title: Precipitation in Al-Li Alloy AA2195 by Means of Atom Probe Tomography and Transmission Electron Microscopy: Characterization and Engineering
	Muna Khushaim , King Abdullah University of Science and Technology, Saudi Arabia

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