

June 28, 2023				
08:00 - 12:00	Onsite Participant registration			
08:00 - 10:30	Morning Coffee Break			
Nanotech / GAMS Joint Plenary session				
Amphithéâtre				
Session's Chairs: Prof. Pablo Taboada Antelo, University of Santiago de Compostela, Spain Prof. Rodrigo Ferrão de Paiva Martins, Nova Univ. of Lisbon, Portugal				
10:30 - 11:00	Bio-nano-technologies for cardiac regenerative medicine C. Giachino , R. Rastaldo, D. Rossin, S. Perveen, R. Vanni, D. Fusco, A. Marsano, R. Pires, R. Reis, N. Barbani and C. Cristallini	Prof. Claudia Giachino , University of Torino, Italy		
11:00 - 11:30	Stability of fibrillated nanocellulose suspension in the presence of AgNPs, AuNPs, Rhamnolipid and inorganic surfactants Z. Sadowski and A. Wirwis	Prof. Zygmut Sadowski , Wroclaw University of Science and Technology, Poland		
11:30- 11:45	Laser ablation synthesis of fresh Te nanoparticles for MALDI MS applications K. Novotný , I. Kreml, L. Pečinka, P. Vaňhara and J. Havel	Prof. Karel Novotný , Masaryk University, Czech Rep		
11:45 - 12:00	Facile Fabrication of Reduced Graphene Oxide-Carbon Nanotubes-Silicon Composites for High Current Density Anode Materials H.D. Jang , S.K. Kim and K.M. Roh	Prof. Hee Dong Jang , Korea Institute of Geoscience & Mineral Resources, Rep. of Korea.		
12:00 - 14:00	Lunch Break			
Nanotech / GAMS Joint Session I.A: Nanomaterials Fabrication / Synthesis / properties				
Amphithéâtre				
Session's Chairs: Prof. Karel Novotný , Masaryk University, Czech Rep Prof. Zygmut Sadowski , Wroclaw University of Science and Technology, Poland				
14:00 - 14:30	An enhanced generation of singlet oxygen through the use of Au bi-pyramids/SiO ₂ core-shell nanoparticles for photocatalysis C. Mendoza, D. Chateau, A. Desert, C.A. Páez, N. Emmanuel, L. Khrouz, C. Monnereau, L. Dreesen, J-C. M. Monbaliu, S. Parola and B. Heinrichs	Prof. Benoit Heinrichs , University Liège, Belgium		
14:30 – 15:00	Piezoelectric III-Nitride nanowires based energy harvesters: Towards the development of wireless micro-devices N. Gogneau	Dr. Noelle Gogneau , Paris Saclay University, France		
15:00 - 15:15	Metal Oxide Aerogels: Porous Matrices for Curcumin Entrapment W. Hamd, D. Patra and H. El-Rassy	Prof. Houssam Rassy , American University of Beirut, Lebanon		
15:15- 15:30	Keratin/Halloysite binary nanohybrids for bio-polymer nanocomposites G-M. Teodorescu , A. Ioniță, Z. Vuluga, C-A. Nicolae, M. Ghiurea and V. A. Faraon	Mr. George Mihail Teodorescu , INCDCP-ICECHIM- Bucharest, Romania		
15:30 - 15:45	Nanocomposite derived from Local Ilmenite and Monazite for Solid Oxide Fuel Cell Cathode Material M.Z. Ahmad and S. Ahmad	Mr. Muhammad Zaid Ahmad , National University of Malaysia, Malaysia		
15:45 - 16:00	Development of Nanocatalysts Derived from Ferrocene/Ferrocenium E. Somsook	Prof. Ekasith Somsook , Mahidol University, Thailand		

16:00 - 16:30		Afternoon Coffee Break
Session's Chairs: Prof. Benoit Heinrichs, University Liège, Belgium Prof. Houssam Rassy, American University of Beirut, Lebanon		
16:30 - 16:45	Green synthesis of WO ₃ nanomaterial and their gas sensing properties H. Pakdel , V. Galstyan and E. Comini 1	Ms. Hakimeh Pakdel , University of Brescia, Italy
16:45 - 17:00	Nanosensor Fabrication with Silicon Nanowires M. Aleem, S. Kundu and B. Kim	Prof. Bruce Kim , City University of New York, USA
17:00 - 17:15	Delamination Mechanics and Electrical Performance of Transferred Vertically Aligned Carbon Nanotube Arrays L. Lum , Y.M. Zhai, R.T. Jiang, C.W. Tan and B.K. Tay	Mr. Lucas Lum , Nanyang Technological University, Singapore
17:15 - 17:30	Multifunctional, bicontinuously phase separated comb copolymer ionogel electrolyte for solid-state supercapacitors W. Jin Mun and J. Hak Kim	Mr. Woo Jin Mun , Yonsei University, Rep. of Korea
17:30 - 17:45	Fabrication of solid flexible supercapacitors based on adhesively, mechanically strong partially fluorinated comb copolymer electrolyte films S. Jae Moon and J. Hak Kim	Mr. Seung Jae Moon , Yonsei University, Rep. of Korea
17:45 - 18:00	MoS ₂ Nanowormes in-situ sputtered with Molybdenum Nitride Nanoflakes for high-performance Na-ion Supercapacitive Electrodes B. Ranjan and D. Kaur	Mr. Bhanu Ranjan , Indian Institute of Technology Roorkee, India

June 28, 2023

**Nanotech / NanoMetrology joint session I.B:
Nanomaterials Modelling and Characterisation/ Nanosafety**

Conference Room Derain 1+2

Session's Chairs:

**Prof. Jacques Jupille, Institut des Nanosciences de Paris, France
Prof Juan Francisco Sánchez Royo, University of Valencia, Spain**

14:00 - 14:30	Evidence of the release of metals into the environment by the alteration of microplastics and focus on the potential contamination by Cr(VI) D. Vantelon, I. Khatib, C. Rivard, C. Catrouillet, J. Gigault and M. Davranche	Dr. Delphine Vantelon, LUCIA beamline Synchrotron SOLEIL, France
14:30 - 14:45	A Verified and Validated Finite Element Solution of a Nano-Calibration Problem in Near-Field Scanning Microwave Microscopy J. T. Fong, P. V. Marcal, N. A. Heckert, S. Berweger, T. M. Wallis, K. Genter and P. Kabos	Dr. Jeffrey Fong, U.S. National Inst. of Standards & Tech, USA
14:45 - 15:00	Towards time- and energy-resolved tabletop XUV photoelectron spectroscopy of solvated nanoparticle systems J.Trester, P. Zhang and H. Jakob Wörner	Mr. Joel Trester, ETH Zürich, Switzerland
15:00 - 15:15	Contact Force in Current-Detecting Atomic Force Microscopy-Moving Towards C-AFM Tomography in Photovoltaic Research M. Hývl, M. Ledinský and A. Fejfar	Dr. Matěj Hývl, Institute of Physics, Academy of Sciences, Czech Rep.
15:15 - 15:30	Effect of Gaussian and Bessel laser beams on linear and nonlinear optical properties of vertically coupled cylindrical quantum dots D.B. Hayrapetyan	Prof. David Hayrapetyan, Russian-Armenian University, Armenia
15:30 - 15:45	Talbot effect in InAs/GaAs coupled cylindrical quantum dots ensemble P. Mantashyan, G. Mantashian and D. Hayrapetyan	Dr. Paytsar Mantashyan, A.B Nalbandyan Institute of Chemical Physics, Armenia
15:45 - 16:00	Wrinkling and crumpling in twisted few and multilayer CVD graphene: High density of edge modes influencing Raman spectra D. Nikolaievskyi, M. Torregrosa, A. Merlen, S. Clair, O. Chuzel, J.-L. Parrain, T. Neisus, A. Campos, M. Cabie, C. Martin and C. Pardanaud	Dr. Cedric Pardanaud, Aix Marseille Univ, France

16:00 - 16:30 Afternoon Coffee Break

Session's Chairs:

**Prof. Jacques Jupille, Institut des Nanosciences de Paris, France
Prof. David Hayrapetyan, Russian-Armenian University, Armenia**

16:30 - 16:45	Degradation processes in two-dimensional lead iodide perovskites studied by Photoemission M. Krcmarova, J. Rodríguez-Romero, I. Mora-Seró, J.P. Martínez-Pastor, M.C. Asensio and J.F. Sánchez-Royo	Prof. Juan Francisco Sánchez Royo, University of Valencia, Spain.
16:45 - 17:00	Is the Surface of Hofmann-like Spin-Crossover {Fe(pz)[Pt(CN)4]} Same as its Bulk? A. Martínez Serra, A. Dhingra, M. C. Asensio, J. A. Real, and J. F. Sánchez Royo	Mr. Alejandro Martínez Serra, University of Valencia, Spain.
17:00 - 17:15	Surface Stabilisation of the High-Spin State of Fe(II) Spin-Crossover Complexes A. Dhingra, A. Martínez Serra, M. C. Asensio, J. A. Real, and J. F. Sánchez Royo	Dr. Archit Dhingra, University of Valencia, Spain
17:15 - 17:30	Machine Learning-based Prediction and Inverse Design of 2D Metamaterial Structures with Tunable Deformation-Dependent Poisson's Ratio X. Wang, J. Tian and K. Tang	Prof. Xianqiao Wang, University of Georgia, USA

17:30 - 17:45	Determination of Diazonium Compounds For Modification Silver Nanoparticles in Estrogen Detection using DFT calculation S. Srisung , S. Nilrattanakoon and N. Wasukan	Dr. Sujitra Srisung , Srinakharinwirot University, Thailand
17:45 - 18:00	MetamaterialFinder: A Software Framework for Discovering and Analyzing Mechanical Metamaterials Based on Simple Closed Curves M. Fleisch , A. Thalhamer, G. Pinter, S. Schlägl and M. Berer	Mr. Mathias Fleisch , Polymer Competence Center Leoben GmbH, Austria
18:00 - 18:15	In Operando Spectroscopic Ellipsometry Investigation of MOF Thin Films for the Selective Capture of Acetic Acid S.Dasgupta , S.Biswas, K.Dedecker, E. Dumas1, N. Menguy, B. Berini, B. Lavedrine, C. Serre, C. Boissière and N. Steunou	Dr. Sanchari Dasgupta , ILV, UVSQ, University Paris Saclay, France

June 29, 2023

Nanotech / GAMS 2023 - Joint Session II.A - Nanocoatings/ Thin films and nanostructured surfaces

Amphithéâtre

Session's Chairs:

Prof. Jacques Jupille, Institut des Nanosciences de Paris, France
Prof. Sankara S. Tatiparti, Indian Institute of Technology Bombay, India
Prof. Houssam Rassy, American University of Beirut, Lebanon

09:00 - 09:30	Liquid crystals, topological defects and nanoparticles E. Lacaze	Prof. Emmanuelle Lacaze, Institut des NanoSciences de Paris- CNRS, France
09:30 - 10:00	Ultrathin NiFe nanoalloyed films as low-cost and stable oxygen evolution reaction catalysts L. Ciambriello and L. Gavioli	Prof. Luca Gavioli, Università Cattolica del Sacro Cuore, Italy
10:00 - 10:30	Fabrication of a nanoporous filter for disposable facemasks out of biodegradable Polyesteramide through electrospinning: PublicMask S. Hengsberger, R. Marti and J. Charmet	Prof. Stefan Hengsberger, University of Applied Sciences and Arts Western Switzerland, Switzerland

10:30 - 11:00 Morning Coffee Break

Session's Chairs:

Prof. Jacques Jupille, Institut des Nanosciences de Paris, France
Prof. Luca Gavioli, Università Cattolica del Sacro Cuore, Italy

11:00 - 11:15	Highly TCO-Zn0.99B0.01O nanostructured thin films achieved by coupling rf magnetron sputtering and sol gel process K. Medjnoun, A-R. Moussa Tankari , K. Djessas and M. Nouiri	Mr. Moussa Tankari Abdoulrazak, PROMES-CNRS, France
11:15 - 11:30	Influence of ion bombardment on nanostructured DLC:N films deposited by RF magnetron sputtering. A. Lousa , M. Punset, J. Caro, C. Díaz, G. García-Fuentes, R. Bonet, E. Rupérez and J. Esteve	Mr. Arturo Lousa, University of Barcelona, Spain
11:30 - 11:45	Growth of luminescent rare-earth doped LaNbO compounds thin films by magnetron sputtering for the improvement of solar cells E. Salas-Colera, M. Tardío, E. García-Tabarés, B. Perea, M.L. Crespillo, J.E. Muñoz-Santiuste and B. Galiana	Dr. Beatriz Galiana, University Carlos III de Madrid, Spain
11:45 - 12:00	Modular UV Curing Sol-Gel Coating for Levelling and Easy to Clean Multi-layer Systems. L. Florentino	Mrs. Lucia Florentino, Idonial Foundation, Spain

12:00 - 14:00 Lunch Break

**NanoMatEn / GAMS Joint Session II.B:
Materials and Nanomaterials for Energy / Nanoelectronics/ Nanophotonics**

Amphithéâtre

Session's Chairs:

Prof Stefan Hengsberger, University of Applied Sciences and Arts Western Switzerland, Switzerland
Prof Juan Francisco Sánchez Royo, University of Valencia, Spain
Prof. Sasha Omanovic, McGill University, Canada

14:00 - 14:30	Nanogenerator: A Horizon of Green Power R. Martins , E. Fortunato and S. Nandy	Prof. Rodrigo Ferrão de Paiva Martins, Nova University of Lisbon, Portugal
14:30 - 15:00	Exploring Memristive Squaraine Microtubes: Programmable Multi-Level Memory Behaviour for Neuromorphic Applications G. Redmond	Prof. Gareth Redmond, University College Dublin, Ireland
15:00 - 15:15	Fractional-Order Fast Integral Terminal Sliding Mode Control for A Piezoelectric Feeding Tool Holder System K-M. Chang, J-M. Chen, W-L. Li and Y-T. Liu	Prof. Yung-Tien Liu, National Kaohsiung University of Science and Technology, Taiwan

15:15 - 15:30	Spatially-assisted electron-hole pair separation in core/shell quantum dots for energy conversion D. Barba , C. Wang, G. Singh Selopal, H. Zhao and F. Rosei	Dr. David Barba , INRS, Canada
15:30 - 15:45	Spectrally Selective Multilayer Coating System to Improve the Thermo-Optical Properties of New-Designed Particle Receiver for Concentrated Solar Power Plant. E. Salas-Colera , E. García-Tabarés, M.R. Rodríguez-Sánchez, A. Acosta-Iborra and F. Hernández-Jiménez	Dr. Eduardo Salas Colera , University Carlos III de Madrid, Spain
15:45 - 16:00	Up-Converting NaY(Gd)F4:Yb3+,Er3+ β-phase Nanorods with Enhanced Red Emission for Perovskite Solar Cells A. Gonzalo , E. García-Tabarés, B. Serrano, J. E. Muñoz Santiuste and B. Galiana	Dr. Alicia Gonzalo , University Carlos III de Madrid, Spain
16:00 - 16:30	Afternoon Coffee Break	
Session's Chairs: Prof. Luca Gavioli , Università Cattolica del Sacro Cuore, Italy Prof. Rodrigo Ferrão de Paiva Martins , Nova University of Lisbon, Portugal		
16:30 - 16:45	The influence of material synthesis parameters on the electrocatalytic activity of NiMo-oxide nanostructures as anode electrocatalysts in alkaline water splitting towards green hydrogen production M.Rammal and S.Omanovic	Prof. Sasha Omanovic , McGill University, Canada
16:45 - 17:00	Anomaly in potential-composition-temperature isotherms during electrochemical hydrogenation of Pd thin films in an alkaline medium M. T. Pise, A. Chatterjee, B.P. Kashyap, R.N. Singh and S.S.V. Tatiparti	Prof. Sankara S. Tatiparti , Indian Institute of Technology Bombay, India
17:00 - 17:15	Hydrogen storage capacity of titanium, zirconium and Ti _x Zr _{1-x} thin films I. Zukerman , M. Buzaglo and S. Hayun	Mr. Ido Zukerman , NRC-Negev, Israel
17:15 - 17:30	Concrete modules for energy harvesting R. Campos , R. Pedroso, D. Esteves, J. Gonçalves, J. Serafim, D. Correia, D. Gaspar and Â. Nunes	Mr. Ricardo M. Campos , CeNTI- Centre of Nanotechnology and Smart Materials, Portugal
17:30 - 17:45	Sustainability of Expanded Polystyrene as a Preferred Thermal Insulation Material C. Martins , J. Araújo, J. Coutinho, D. Rodrigues, A. Moreira, P.F. Teixeira, N.O. Ferreira, D. Queiroz and N.B Pereira	Mrs. Cíntia Martins , CeNTI - Centre for Nanotechnology and Smart Materials, Portugal
17:45 - 18:00	Metal oxides composite electrodes for the oxygen evolution reaction C.M. Pereira , J.L. Chen, A.T. S. C. Brandão, R. Costa and M. J. Sottomayor	Dr. Carlos M. Pereira , Porto University - FCUP, Portugal
18:00 - 18:15	Investigation of the Physical Properties of New Binary Mixed Oxide Nanocomposites for Environmental Applications M. Alzaid .	Dr. Meshal Alzaid , Jouf University, Saudi Arabia.

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Nanotech France / GAMS Joint Session II.C - Nano for life science and Medicine

Conference Room Derain 1+2

Session's Chairs:

Prof. Claudia Giachino, University of Torino, Italy

Prof. Xavier Fernandez Busquets, University of Barcelona/ IBEC, Spain

09:00 - 09:30	Carbon nano-onions for biomedical applications S. Giordani	Prof. Silvia Giordani, Dublin City University, Ireland
09:30 - 10:00	Motile micro- and nanorobotics: System integration, autonomy and biomedical applications O.G. Schmidt	Prof. Oliver G. Schmidt, Chemnitz University of Technology, Germany
10:00 - 10:30	Genetically Encoded Biosensor Development and Its Application in Regulating Microbial Biosynthesis T Jia.ng, C. Li, Y. Zou, J. Zhang, Q. Gan and Y. Yan	Prof. Yajun Yan, University of Georgia, USA
10:30 - 11:00		Morning Coffee Break
11:00 - 11:30	Macrophage-targeted nanotherapies for hard-to-treat malignancies in females B. Godin	Prof. Biana Godin, Houston Methodist Research Institute, USA
11:30 - 11:45	Boosting translation in nano-enabled medical technologies: Lessons learned in the H2020 OITB Project Safe-N-Medtech A. del Pozo	Mr. Angel del Pozo, Biokeralty Research Institute AIE, Spain
11:45 - 12:00	Nanotechnological Approaches against Leishmaniasis: Aerosol Therapy with Pentamidine-loaded Liposomes and Discovery of New β-sheet Intercalator Drugs L. Román-Álamo , M. Allaw, Y. Avalos-Padilla, M.L. Manca, M. Manconi, J.A. Vázquez, J.E. Peris, X. Roca-Geronès, S. Poonlapahdecha, M.M. Alcover, R. Fisa, C. Riera, E.M. Arce, D. Muñoz-Torrero and X. Fernández-Busquets	Ms. Lucia Roman Alamo, University of Barcelona/ IBEC, Spain

12:00 - 14:00 **Lunch Break**

Session's Chairs:

Prof. Silvia Giordani, Dublin City University, Ireland

Prof. Biana Godin, Houston Methodist Research Institute, USA

Prof. Pablo Taboada Antelo, University of Santiago de Compostela, Spain

14:00 - 14:30	Fabricating Quantum Dots for Technological Applications K. Critchley	Prof. Kevin Critchley, University of Leeds, UK
14:30 - 15:00	Hybrid nanostructures for combined therapeutics and tissue repair P. Taboada Antelo	Prof. Pablo Taboada Antelo, Univ; of Santiago de Compostela, Spain
15:00 - 15:30	Combination Therapy at the Nanoscale for the Targeted Delivery of New β-sheet Intercalator Antimalarial Drugs I. Bouzón-Arnáiz, Y. Avalos-Padilla, V. Iglesias, O. Cuspinera-Darnaculleta, L. Román-Álamo, C. Camarero-Hoyos, M. Ramírez, M. Rawat, R. Coyle, M. Lee, E.M. Arce, D. Muñoz-Torrero and X. Fernández-Busquets	Prof. Xavier Fernandez Busquets, University of Barcelona/ IBEC, Spain
15:30 - 16:00	Erythrocytes derived vesicles as platform for therapeutic nucleic acid delivery G. Della Pelle , T. Božič, B. Markelc, J. Šribar, K. Žagar Soderžnik, M. Erdani-Kreft, S. Hu-doklin and N. Kostevšek	Mrs. Giulia Della Pelle, Jožef Stefan Institute, Slovenia
15:45 - 16:00	Use of nanostructured MOX sensors to detect colorectal cancer by measuring blood samples and post-surgical follow-up M. Astolfi , G. Rispoli, G. Anania, G. Zonta and C. Malagù	Dr. Michele Astolfi, University of Ferrara, Italy
16:00 - 16:15	High-fidelity heart valve biomodel for aortic root and mitral valve surgery simulation training applications D. Varghese, K. Stoklosa , A. Joshi, W. Awad, P. Curry, A. Shahidi and R. Arm	Mr. Richard Arm, Nottingham Trent University, UK

16:00 - 16:30 **Afternoon Coffee Break**

June 30, 2023

NanoMatEn - Session III.
Nanotechnology for Environmental Application / Water treatment

Session's Chairs:

Prof. Sankara S. Tatiparti, Indian Institute of Technology Bombay, India
Prof. Zygmunt Sadowski, Wroclaw University of Science and Technology, Poland

Conference Room Derain 1+2

09:00 - 09:30	Labs and Organs on Chip for Health and Climate A.Van Den Berg	Prof. Albert van den Berg, BIOS-Lab on Chip Group/Scientific Director MESA+, Institute University of Twente, The Netherlands
09:30 - 10:00	From the Atomic Structure to the Optoelectronic Properties Studies of Low Dimensional Inorganic NanoMaterials via TEM R. Arenal	Dr. Raul Arenal, Zaragoza University, Spain
10:00 - 10:30	Morning Coffee Break	
10:30 - 11:00	2D Nanostructures at Atomic Scale: From Energy and Environmental Applications to Quantum Devices J. Arbiol	Prof. Jordi Arbiol, ICREA and Catalan Institute of Nanoscience and Nanotechnology, CSIC and BIST, Spain
11:00- 11:15	Metalorganic Copolymers From Iron(II) Clathrochelates: Versa-tile Materials and Conspicuous Adsorbents of Lithium Ions, Iodine, and Organic Dyes S. Shetty, N. Baig and B. Alameddine	Prof. Bassam Alameddine, Gulf University for Science and Technology, Kuwait
11:15 - 11:30	Naphthyridine-based Luminophores for Highly Efficient Thermally Activated Delayed Fluorescence Organic Light- Emitting Diodes R. Keruckiene , E. Vijaikis, C.-H. Chen, B.-Y. Lin, J.-X. Huang, C.-C. Chu, Y.-C. Dzeng, C. Chen, J.-H. Lee, T.-L. Chiu, S. Macionis, J. Keruckas, R. Butkute, J. V. Grazulevicius and E. Skuodis	Dr. Rasa Keruckienė, Kaunas University of Technology, Lithuania
11:30 - 11:45	Nanostructured thin films of manganese oxide coupled with electro-chemistry: an innovative eco-friendly water depollution process C. Boillereau and S. Peulon	Ms. Charlène Boillereau, University Paris-Saclay, CEA, CNRS/ NIMBE, France
11:45 - 12:00	Enhanced adsorption and Photo-Fenton degradation of 2, 4- Dichlorophenoxyacetic acid using nanomagnetite/alginate nanocomposite based on brown algae: kinetic and thermodynamic studies L. M. Alshandoudi	Dr. Laila M. Alshandoudi, University of Technology and Applied Sciences, Sultanate of Oman
12:00 - 12:15	A new approach towards the realization of specific and label- free biological sensing based on field-effect devices S. Samanta, V.S. Tiwari, S. Sadhujan, S. Harilal, A. Eisenberg-Lerner, Z. Rotfogel, E. Pikhay, R. Shima-Edelstein, D. Greental, M.Y. Bashouti, B. Akabayov, I. Ron, Y. Roizin, O. Erez and G. Shalev	Dr. Gil Shalev, Ben-Gurion University of the Negev, Israel

Posters Session
June 28 - 29, 2023

N.	Title	Author / Affiliation / Country
1.	Targeted synthesis and tailoring of gold nanorods D.G. Schauer , J. Bredehoeft and H. Jakob Wörner	Mr. David G. Schauer , ETH Zurich, Switzerland
2.	High-Speed Die Attachment by Transient Liquid Phase Bonding Using a Preform of 5 µm Cu@Sn Core-Shell Particles for High-Temperature Applications Y. Kim, B. Jo Han and J-H. Lee	Prof. Jong-Hyun Lee , University of Seoul, Rep. of Korea
3.	Analysis of B-rich B-Te Ovonic Threshold Switching Materials and Devices with Various Compositions H. Kwon , K. Jeong, Y. Seong, H. Kim and M-H. Cho	Mr. Hoedon Kwon , Yonsei University, Rep. of Korea
4.	The Effects of Gold Nanorods with Wavelength Irradiation T. Román , E. Morales-Narváez and Y. Montelogo	Ms.Tatiana Román , Centro de Investigaciones en Óptica, México
5.	Effect of ZnO particle size on the activity in the photoreduction of CO ₂ I. Pełech , A.W. Morawski, K. Ćmielewska, E. Kusiak-Nejman and U. Narkiewicz	Prof. Iwona Pełech , West Pomeranian University of Technology in Szczecin, Poland
6.	Nitrates on Ceria: Effects of Morphology and Zr Doping E. Ivanova , M. Mihaylov, K. Chakarova, H. Aleksandrov, P. Petkov, G. Vayssilov and K. Hadjiivanov	Dr. Elena Ivanova , Bulgarian Academy of Sciences, Bulgaria
7.	CO Adsorption on Ni-MFI Zeolite M. Mihaylov , E. Ivanova, N. Drenchev and K. Hadjiivanov	Prof. Mihail Mihaylov , Bulgarian Academy of Sciences, Bulgaria
8.	Fabrication of highly permselective, mechanically robust block copolymer/ionic liquid membranes for CO ₂ separation Y. Jun Kim and J. Hak Kim	Mr. Young Jun Kim , Yonsei University, Rep.of Korea
9.	Comparing submicron-thick mixed-matrix membranes with metal organic frameworks of MIL-140C and UiO-67 for CO ₂ separation H. Jin Roh , M. Kang and J. Hak Kim	Mr. Hyuk Jin Roh , Yonsei University, Rep. of Korea
10.	Structure-Property Relationship of Aramid Nanofiber-Reinforced Thermotropic Liquid Crystalline Polyester Nanocomposites T-G. Eom, Y-G. Song, S-J. Kim, M. Seo, J-H. Park, and Y. Gyu Jeong	Prof. Young Gyu Jeong , Chungnam National University, Rep. of Korea
11.	Synthesis and characterization of silica/phytic acid binary nanofillers M. Wysokowski , J. Stachowiak and P. Bartczak	Dr. Marcin Wysokowski , Poznan University of Technology, Poland
12.	Polymer Based Nanocomposites filled with Graphitic Materials and Metallic Oxides Applied to X-ray Shielding in Interventional Radiology Procedures L. O. Faria and L. A. Silva	Prof. Luiz Oliveira de Faria , Centro de Desenvolvimento da Tecnologia Nuclear, Brazil
13.	Vanadium aluminum carbide nanoparticles as a storable absorber to generate mode-locked pulses from Yb fiber laser F. Fadhil and A. H. Al-Janabi	Dr. Fay Fadhil , University of Baghdad, Iraq
14.	Iron(III)-Polyphenol Nanocoating for Black Hair-Dyeing E.K. Kang and I.S. Choi	Ms. Eunhye Kang , KAIST-Daejeon, Rep. of Korea
15.	A study of cardanol-based phosphoric flame retardant to improve the flame retardancy of epoxy material D-H. Kim	Dr. Do-Hyun Kim , Korea Institute of Civil Engineering and Building Technology, Rep. of Korea
16.	Optimizing Ge film adhesion on polycarbonate: unraveling the impact of O ₂ /Ar plasma exposure J. Peralta, J. Esteve and A.Lousa	Prof. Joan Esteve , University of Barcelona, Spain
17.	Synthesis of Ag/Fe ₂ O ₃ nanocomposite from essential oil of ginger via green method and its bactericidal activity F.A. M. Al Zahrani , N. A. AL Zahrani, S. N. Al Ghamdi, · L. Lin, S.S. Salem and R. M. El Shishtawy	Dr. Fatimah A. M. Al Zahrani , King Khalid University, Saudi Arabia
18.	Organic-Inorganic Hybridgel: new food packaging material F. Trodtfeld , T. Tölke and C. Wiegand	Ms. Franziska Trodtfeld , INNOVENT e.V- Jena, Germany
19.	Molecular dynamics study of self-diffusion pathways in alkali metals Y. Kondratyeva and A.V. Sergeev	Ms. Yevgeniya Kondratyeva , N.N. Semenov Federal Research Center for Chemical Physics, Russia
20.	Autophagy enhancer-Trehalose coated implant is available for the inflamed and infected bone	Prof. Won-Jae Kim , Chonnam National University, Rep. of Korea

	S-Y. Park, K-J. Seong, S. Kim, M-S. Kook, M-Y. Park, H-J. Song, S-G. Park, J-Y. Jung and W-J. Kim	
21.	Carbon composites for biomedical application P. Tzvetkov , B. Tsyntsarski, I Stoycheva, G. Georgiev, B. Petrova, E. Grigorova and P. Markov	Dr. Peter Tzvetkov , Bulgarian Academy of Sciences, Bulgaria
22.	Bio-inspired formation of protein-nanoparticle complexes mimicking ocular environment J. Hun Kim and T. Geol Lee	Prof. Jeong Hun Kim , Seoul National University Hospital, Rep. of Korea
23.	Efficient in vitro and in vivo DNA Delivery by Multicomponent Lipid Nanoparticles S. Renzi , E. Quagliarini, L. Digiocomo, J. Wang, L. Cui, G. Ferri, L. Pesce, V. De Lorenzi, G. Matteoli, H. Amenitsch, L. Masuelli, R. Bei, F. Cardarelli, A. Amici, C. Marchini, D. Pozzi and G. Caracciolo	Mrs. Serena Renzi , Sapienza University of Rome, Italy
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