

SMS 2021 / Sensors 2021 / EGF 2021 / NanoMed 2021  
 Joint Hybrid Conferences Preliminary Program  
 20 - 22 October 2021 (GMT + 2 Time Zone for Onsite and Virtual Sessions)

**Onsite Presentations Sessions**

**Wednesday, 20 Oct. 2021**

<b>08:00 - 12:00</b>	Onsite Participant registration.	
<b>Smart Materials and Surfaces - SMS 2021 Onsite Session I</b>		
<b>Onsite Conference Colonne A+B</b>		
<b>Session's Chairs:</b> <b>Dr. Camilla Baratto, CNR-INO, PRISM Lab, Brescia, Italy</b> <b>Prof. Valentina Cauda, Polytechnic University of Turin, Italy</b>		
<b>10:00 – 10:30</b>	Thermomagnetic Energy Harvesting: From Material Properties to the Engineering of Functional Devices <b>M. Kohl</b>	<b>Prof. Manfred Kohl</b> , Karlsruhe Institute of Technology, <b>Germany</b>
<b>10:30 - 10:45</b>	Structures of ice confined in nanopores; pressure enhancement and wetting energy effects <b>M. Śliwinska-Bartkowiak</b> , M. Jazdzewska, K. Rotnicki, A. Beskrovny and K. E. Gubbins	<b>Prof. Malgorzata Sliwinska-Bartkowiak</b> , Adam Mickiewicz University, Poznan, <b>Poland</b>
<b>10:45 – 11:00</b>	The role of long-range electrostatic interactions and local topology of the hydrogen bond network in the wettability of fully and partially wetted single and multilayer graphene <b>M. Chiricotto</b> , F. Martelli, G. Giunta and P. Carbone	<b>Dr. Mara Chiricotto</b> , The University of Manchester, <b>UK</b>
<b>11:00 - 11:15</b>	Buckle depression as a signature of the elastic properties of 2D materials <b>C. Coupeau</b>	<b>Prof. Christophe Coupeau</b> , University of Poitiers, <b>France</b>
<b>11:15 - 11:30</b>	Tailor-Making Nano Insulation Materials through Synthesis of Hollow Silica Nanospheres <b>B. P. Jelle</b> and S. Alex Mofid	<b>Prof. Bjørn Petter Jelle</b> Norwegian University of Science and Technology <b>Norway</b>
<b>11:30 - 11:45</b>	Viologen $\pi$ -Dimerization as a Trigger for Metamorphism in Supramolecular Stimuli-Responsive Materials <b>D. Frath</b> , T. Gibaud, S. Chowdhury, C. Kahlfuss, C. Roizard, A. F. Carreira, R. Grüber, Y. Nassar, L. Guy, F. Chevallier, E. Dumont, A. P. Ramos, G. J.-F. Demets, E. Saint-Aman and C. Bucher	<b>Dr. Denis Frath</b> , CNRS- ENS Lyon, <b>France</b>
<b>11:45 - 12:00</b>	Analytical, Numerical and Experimental Study of the Self-Heating of a Shape Memory Composite <b>C. A. Pereira Sánchez</b> , M. Houbben, J. F. Fagnard, P. Laurent, C. Jérôme, L. Noels and P. Vanderbemden	<b>Ms. Clara. A. Pereira Sánchez</b> , University of Liège, <b>Belgium</b>
<b>12:00 - 14:00</b>	<b>Lunch Break</b>	
<b>Session's Chairs:</b> <b>Prof. Manfred Kohl, Karlsruhe Institute of Technology, Germany</b> <b>Prof. Malgorzata Sliwinska-Bartkowiak, Adam Mickiewicz University-Poznan, Poland</b>		
<b>14:00 - 14:30</b>	Martensitic microstructures in nanocrystalline NiTi wires thermomechanically loaded in tension <b>P. Šittner</b> , O. Molnárová, L. Heller and H. Seiner	<b>Dr. Petr Šittner</b> , Czech Academy of Sciences, <b>Czech Republic</b>
<b>14:30 - 14:45</b>	Landau-energy Landscape Reconstruction for a Ni-Fe-Ga(Co) Shape Memory Alloy <b>H. Seiner</b> , K. Zoubková, P. Sedlák, E. Villa, M. Tahara, H. Hosoda and V. Chernenko	<b>Prof. Hanus Seiner</b> , Institute of Thermomechanics- Czech Academy of Sciences, <b>Czech Republic</b>
<b>14:45 - 15:00</b>	Localization of Martensitic Transformation in NiTi Shape Memory Alloys: Experimental Observations by 3D Diffraction/Scattering Computed Tomography and Numerical Reconstruction <b>P. Sedlak</b> , M. Frost, H. Seiner and P. Sittner	<b>Dr. Petr Sedlak</b> , Institute of Thermomechanics- Czech Academy of Sciences, <b>Czech Republic</b>

15:00 - 15:15	Ultrasonic-based evaluation of the NiTi shape-memory alloy elasticity during stress-induced martensitic transformation <b>T. Grabec</b> , P. Sedlák, K. Zoubková, P. Stoklasová, M. Ševčík, M. Janovská and H. Seiner	<b>Dr. Tomáš Grabec</b> , Institute of Thermomechanics- Czech Academy of Sciences, <b>Czech Republic</b>
15:15 - 15:30	Correlation between microstructural condition and functional and magnetic properties in sintered Ni <sub>50</sub> Mn <sub>30</sub> Ga <sub>20</sub> ferromagnetic shape memory alloy <b>F. Villa</b> , A. Nespoli, C. Fanciulli, F. Passaretti, F. Albertini and E. Villa	<b>Dr. Francesca Villa</b> , CNR ICMATE Unit of Lecco, <b>Italy</b>
15:30 - 15:45	Elastocaloric properties of polycrystalline samples of NiMnGaCu ferromagnetic shape memory alloy in compression configuration <b>E. Villa</b> , C. Tomasi, F. Villa, E. Bestetti, A. Nespoli and F. Passaretti	<b>Dr. Elena Villa</b> , National Research Council CNR ICMATE Unit of Lecco, <b>Italy</b>
15:45 - 16:00	Magnetic and Dielectric Properties of Ruddlesden–Popper Ca <sub>3</sub> Mn <sub>2</sub> O <sub>7</sub> thin films prepared by Pulsed Laser Ablation <b>B. Silva</b> , J. Oliveira, T. Rebelo, P. Rocha-Rodrigues, N. Lekshmi, A. Lopes, J. Araújo, L. Francis and B. Almeida	<b>Ms. Bruna Silva</b> , Minho University, Braga, <b>Portugal</b>
16:00 - 16:30	<b>Afternoon Coffee Break</b>	
<b>Session's Chairs:</b> <b>Prof. Hanus Seiner, Institute of Thermomechanics - Czech Academy of Sciences, Czech Republic</b> <b>Dr. Alberto Jimenez-Suarez, Rey Juan Carlos University, Spain</b>		
16:30 - 16:45	Analysis of Changes of Wood Color, Mass, Density and Total phenolic compounds after thermal treatment process M. Aleinikovas, <b>B. Šilinskas</b> , M. Škėma, I. Varnagirytė-Kabašinskienė and L. Beniušienė	<b>Dr. Benas Šilinskas</b> , Lithuanian Research Centre for Agriculture and Forestry, <b>Lithuania</b>
16:45 - 17:00	Emergent Opto-Electronic Properties in Molecular-Metal Polymer Nanocomposites <b>R. Pfattner</b> , E. Laukhina, M. Mas-Torrent, V. Laukhin, C. Rovira and J. Veciana	<b>Dr. Raphael Pfattner</b> , Materials Science Institute of Barcelona (ICMAB-CSIC), <b>Spain</b>
17:00 - 17:15	Multiply Positively Charged Cyclodextrin Derivatives Usable for Stable Modification of Negatively Charged Solid Support <b>J. Jindřich</b> and P. Kasal	<b>Prof. Jindřich Jindřich</b> , Charles University- Prague, <b>Czech Republic</b>
17:15 - 17:30	Microgels as “on demand” Cation Release Systems <b>V. Chimisso</b> , S. Conti, P. Kong, C. Fodor, and W. Meier	<b>Ms. Vittoria Chimisso</b> , University of Basel, <b>Switzerland</b>
17:30 - 17:45	Smart polymer nanocomposites I. Lorero, M. Campo, A. Jiménez-Suárez and <b>S. G. Prolongo</b>	<b>Dr. Silvia Gonzalez Prolongo</b> , Rey Juan Carlos University, <b>Spain</b>
17:45 - 18:00	Smart nanocomposites based on thermoset polymers reinforced with carbon nanostructures <b>A. Jiménez-Suárez</b> , V. Martínez-Martínez, M.I. Rodríguez-Tapiador, X.X.F. Sánchez-Romate and S.G. Prolongo	<b>Dr. Alberto Jimenez-Suarez</b> , Rey Juan Carlos University, <b>Spain</b>
18:00 - 18:15	Electrical, thermo-electrical and electro-magnetical behaviour of graphitic nanofillers/epoxy nanocomposites I. Collado, A. Jiménez-Suárez, <b>G. Del Rosario</b> and S. G. Prolongo	<b>Dr. Gilberto Del Rosario</b> , Rey Juan Carlos University, <b>Spain</b>

**Smart Materials and Surfaces 2021 / Sensors 2021 Joint Onsite Session I**

**Onsite Conference Colonne A+B**

**Session's Chairs:**

**Prof. Mamas Prodromidis, University of Ioannina, Greece**

**Prof. Stefano Cinti, University of Naples Federico II, Italy**

<b>09:00 - 09:30</b>	Advances in light activated gas sensors based on ZnO nanowires G. Ambrosio, T.T. Le Dang, D. Rocco2, C. De Angelis, G. Faglia and <b>C. Baratto</b>	<b>Dr. Camilla Baratto</b> , CNR-INO, PRISM Lab, Brescia, Italy
<b>09:30 - 10:00</b>	Multi-functionalized silica nanoparticles to improve the sensitivity of diagnostic assays <b>C. Chaix</b> , C. Farre, M. Manzano and J. Vidic	<b>Prof. Carole Chaix</b> , Claude Bernard University Lyon 1, France
<b>10:00 - 10:30</b>	Can chemometrics tool improve development of electrochemical paper-based devices? <b>S. Cinti</b>	<b>Prof. Stefano Cinti</b> , University of Naples Federico II, Italy
<b>10:30 - 11:00</b>	<b>Morning Coffee Break</b>	
<b>11:00 - 11:30</b>	Advanced technologies for Piezoelectric Sensors in SHM systems: a review <b>L. Capineri</b>	<b>Prof. Lorenzo Capineri</b> , University of Florence, Italy
<b>11:30 - 11:45</b>	Molecularly Imprinted Polymer Capacitive Chemosensor for Determination of Heterocyclic Aromatic Amines <b>V. Ayerdurai</b> , A. Garcia-Cruz, M. Cieplak, P.S. Sharma, F. D'Souza and W. Kutner	<b>Ms. Viknasvarri Ayerdurai</b> , Institute of Physical Chemistry, Poland
<b>11:45 - 12:00</b>	Challenges for a High Temperature Glass Solder for the Assembly Concept of a Piezoelectric Resonator <b>F. Kohler</b> , M. Schulz, H. Fritze and J. Wilde	<b>Mr. Fabian Pascal Kohler</b> , University of Freiburg, Germany
<b>12:00 - 12:15</b>	Metal nanoparticles decorated graphene for the development of gas sensors dedicated to sulfur-containing pollutants <b>E. Ruiz</b> , T. Gueye, C. Varenne, A. Ndiaye, J. Brunet and A. Pauly	<b>Ms. Elisa Ruiz</b> , CNRS-Clermont Auvergne University, France
<b>12:15 - 12:30</b>	Ultra high sensitive NO <sub>2</sub> gas microsensor for environmental monitoring or mapping urban air quality <b>T. Gueye</b> , J. Brunet, A. Ndiaye, C. Varenne, E. Ruiz and A. Pauly	<b>Mr. Thiaka Gueye</b> , CNRS-Clermont Auvergne University, France
<b>12:30 - 12:45</b>	Transmissibility estimation of a metamaterial-based decoupling device for vibration measurement A. Annessi, P. Chiariotti, V. Zega, M. Martarelli and P. Castellini	<b>Mr. Alessandro Annessi</b> , Marche Polytechnic University, Italy
<b>12:00 - 14:00</b>	<b>Lunch Break</b>	
<b>Session's Chairs:</b>		
<b>Dr. Camilla Baratto, CNR-INO, PRISM Lab, Brescia, Italy</b>		
<b>Prof. Lorenzo Capineri, University of Florence, Italy</b>		
<b>Prof. Riccarda Antiochia, University of Rome "La Sapienza", Italy</b>		
<b>14:00 - 14:30</b>	Wearable electrochemical microneedles-based sensors and biosensors for minimally-invasive and continuous monitoring of interstitial fluid biomarkers. <b>R. Antiochia</b>	<b>Prof. Riccarda Antiochia</b> University of Rome "La Sapienza", Italy
<b>14:30 - 14:45</b>	Ionized Gas Deflection Gyroscope <b>M.C. Stewart</b> , X. Liu and A.M. Leung	<b>Mr. Matthew C. Stewart</b> , Simon Fraser University, Canada
<b>14:45 - 15:00</b>	Surface-Enhanced InfraRed spectroscopy for selective and sensitive detection of organophosphorus compounds <b>P. Fehlen</b> , G. Thomas, F. Gonzalez-Posada Florès, T. Taliercio and D. Spitzer	<b>Mr. Pierre Fehlen</b> , University of Strasbourg, France
<b>15:00 - 15:15</b>	SIM Card-Type Responsive Polymer-Modified Paper-Based Biosensor for the Point-of-Care Determination of Creatinine in Urine E. Tzianni, M. Trachioti, A. Lazanas, A. Florou, I. Moutsios, D. Moschovas, A. Avgeropoulos, K. Govaris, L. Panagiotidis, S. Panagiotidou and <b>M. Prodromidis</b>	<b>Prof. Mamas Prodromidis</b> , University of Ioannina, Greece

15:15 - 15:30	Ultra-Wideband Microstrip Patch Sensor Antenna Embedded into Bra for Comfortable Breast Cancer Microwave Imaging <b>A. Rangel-Trejo</b> , J.A. Bernardo, L. Konadu and L. Fakri-Bouchet	<b>Mr. Abel Rangel Trejo</b> , CNRS-Univ Lyon, France
15:30 - 15:45	New Methodology to Improve an Implantable Micro-sensor for NMR Spectroscopy <b>J.A. Bernardo</b> , A. Rangel-Trejo, A. Adewolu, L. Werling, W. Uhring, L. Hebrard, C. Gontrand and L. Fakri-Bouchet	<b>Mr. José Bernardo</b> , CNRS-Univ Lyon, France
15:45 - 16:00	Self-Assembling DNA Hairpins for Enzyme-Free Detection of Nucleic Acids in Point-of-Care Applications <b>J. W. Beard</b> , S. L. Hunt and B. L. Miller	<b>Mr. Jeffrey Beard</b> , University of Rochester, USA
16:00 - 16:30 Afternoon Coffee Break		
<b>Smart Materials and Surfaces - SMS 2021 Onsite Session II</b>		
<b>Session's Chairs:</b> <b>Prof. Riccarda Antiochia</b> , University of Rome "La Sapienza", Italy <b>Prof. Mamas Prodromidis</b> , University of Ioannina, Greece		
16:30 - 16:45	(Sn,Ti,Nb) <sub>x</sub> O <sub>2</sub> Solid Solution: an Innovative Sensing Material for H <sub>2</sub> Detection <b>E. Spagnoli</b> , A. Gaiardo, B. Fabbri, M. Valt, S. Krik, M. Ardit, G. Cruciani, M. Della Ciana, L. Vanzetti, S. Gherardi, P. Bellutti, G. Vola, C. Malagù and V. Guidi	<b>Ms. Elena Spagnoli</b> , University of Ferrara, Italy
16:45 - 17:00	Bioorthogonal SERS nanotags for multiplex detection of biomolecules: a versatile straightforward method towards multicolor-custom palette C. Dallari, R. Innocenti, E. Lenci, A. Trabocchi, F.S. Pavone and <b>C. Credi</b>	<b>Dr. Caterina Credi</b> , National Institute of Optics, Italy
17:00 - 17:15	Anisotropic iridescence and polarization patterns in a direct ink written chiral photonic polymer <b>J. Sol</b> , H. Sentjens, L. Yang, N. Grossiord, A. Schenning and M. Debije	<b>Mr. Jeroen Sol</b> , Eindhoven University of Technology, The Netherlands
17:15 - 17:30	Photocatalytic activity of TiO <sub>2</sub> immobilized on Corona pre-treated polypropylene films <b>R. Rescigno</b> , O. Sacco, R. Fittipaldi, V. Venditto, V. Vaiano and C. Daniel	<b>Ms. Raffaella Rescigno</b> , University of Salerno, Italy
17:30 - 17:45	Co-Mn mixed oxides prepared by magnetron sputtering on stainless steel meshes as catalysts for the oxidation of volatile organic compounds <b>P. Topka</b> , K. Jiráková, R. Perekrestov, M. Dvořáková, J. Balabánová, M. Koštejn, D. Pokorná, M. Čada, Z. Hubička and F. Kovanda	<b>Dr. Pavel Topka</b> , Institute of Chemical Process Fundamentals-Prague, Czech Republic
17:45 - 18:00	Development of thermo-responsive polymer coatings based on thiol-isocyanate chemistry to monitor the critical overheating of electronic devices <b>D. Bautista-Anguís</b> , A. Wolfberger and S. Schlögl	<b>Mr. Daniel Bautista</b> , Polymer Competence Center Leoben, Austria
18:00 - 18:15	Modelling and Finite Element (FE) simulation of photomechanical organic thin films <b>R. Cedeno</b> , I. Arroyo, K. Kandil, S. Aloïse and M. Nait-Abdelaziz	<b>Ms. Rebeca Cedeno</b> , University of Lille, France
18:15 - 18:30	A novel crystallographic orientation-based methodology to elucidate the mechanical properties of zinc alloy coatings <b>M. Ahmadi</b> , B. J. Kooi and Y. Pei	<b>Mr. Masoud Ahmadi</b> , University of Groningen, The Netherlands
18:30 - 18:45	Integration of conductive fibers over wearable electronic textiles: Application of hydrogen evolution assisted (HEA) electroplating <b>S.M. Rosa-Ortiz</b> , F. Mokhtari, A. Takshi and J. Foughi	<b>Ms. Sabrina Rosa</b> , University of South Florida, USA
18:45 - 19:00	Generation of cytocompatible superhydrophobic Zr-Cu-Ag metallic glass coatings with antifouling properties for medical textiles <b>E. Sharifikolouei</b> , Z. Najmi, A. Cochis, A. Calogero Scalia, M. Aliabadi, S. Perero and L. Rimondini	<b>Dr. Elham Sharifikolouei</b> , Polytechnic University of Turin, Italy

## NanoMed 2021 Onsite Session I

### Onsite Conference Giardino A

#### Session's Chairs:

**Prof. Miriam Colombo, University of Milano-Bicocca, Italy**  
**Prof. Francesca Granucci, University of Milano-Bicocca, Italy**  
**Dr. Alberto Bianco, University of Strasbourg, France**

<b>08:45 - 09:15</b>	Stimuli-responsive hybrid nanoconstructs for efficient theranostic applications in nanomedicine <b>V. Cauda</b>	<b>Prof. Valentina Cauda</b> , Polytechnic University of Turin, <b>Italy</b>
<b>09:15 - 09:45</b>	Labs, Cells and Organs on Chip <b>A. van der Berg</b>	<b>Prof. Albert van den Berg</b> , University of Twente, <b>The Netherlands</b>
<b>09:45 - 10:15</b>	Graphene-based scaffolds towards the treatment of spinal cord injuries <b>P. Pereira Marques</b>	<b>Prof. Paula Pereira Marques</b> , University of Aveiro, <b>Portugal</b>
<b>10:15 - 10:30</b>	Production and characterization of dual-stimuli nanofibrous membranes <b>A. Gonçalves</b> , F. Veiga Almeida, J.P. Borges and P. I. P. Soares	<b>Ms. Adriana Gonçalves</b> , CENIMAT   i3N- Caparica, <b>Portugal</b>
<b>10:30 - 11:00</b>	<b>Morning Coffee Break</b>	
<b>11:00 - 11:15</b>	Erythrocytes based carriers for therapy and diagnostic <b>G. Della Pelle</b> and N. Kostevsek	<b>Mrs. Giulia Della Pelle</b> , Jozef Stefan Institute, <b>Slovenia</b>
<b>11:15 - 11:30</b>	Carbon dots for nanothermometry and in vivo stem cell imaging <b>K.Polakova</b> , S.Kalytchuk, T.Malina and R. Zboril	<b>Dr. Katerina Polakova</b> , Palacký University-Olomouc, <b>Czech Republic</b>
<b>11:30 - 11:45</b>	Multidrug Delivery Systems Based on Polydopamine Nanoparticles <b>K. Żebrowska</b> , E. Coy, S. Jurga, R. Mrówczyński and B. Grześkowiak	<b>Mrs. Klaudia Żebrowska</b> , Adam Mickiewicz University, Poznań, <b>Poland</b>
<b>11:45 - 12:00</b>	A novel theranostic agent and nanoparticle drug delivery for Boron Neutron Capture Therapy <b>J. Sforzi</b> , D. Alberti, R. Stefania, A. Lanfranco, A. Deagostino, S. Aime and S. Geninatti Crich	<b>Mr. Jacopo Sforzi</b> , University of Torino, <b>Italy</b>
<b>12:00 - 12:15</b>	Remote control of axon outgrowth by magnetic nanoparticles A. Falconieri, S. De Vincentiis, S. Figoli, S. Ghignoli, D. Convertino, M. Mainardi, V. Cappello, L. Marchetti, M. Costa and <b>V. Raffa</b>	<b>Prof. Vittoria Raffa</b> , University of Pisa, <b>Italy</b>
<b>12:00 - 14:00</b>	<b>Lunch Break</b>	
<b>Session's Chairs:</b>		
<b>Prof. Valentina Cauda, Polytechnic University of Turin, Italy</b> <b>Prof. Albert van den Berg, University of Twente, The Netherlands</b>		
<b>14:00 - 14:30</b>	Cutting-edge biofunctionalized nanoparticles: a step toward technological innovation <b>M. Colombo</b>	<b>Prof. Miriam Colombo</b> , University of Milano-Bicocca, <b>Italy</b>
<b>14:30 - 15:00</b>	Anti-inflammatory role of nanodrugs targeting the NFAT pathway in innate myeloid cells <b>F. Granucci</b>	<b>Prof. Francesca Granucci</b> , University of Milano-Bicocca, <b>Italy</b>
<b>15:00 - 15:15</b>	The role of colloidal stabilization and pH evolution in mesoporous silica nanoparticles formation: a comprehensive mechanistic study <b>V. Semeykina</b> and I. Zharov	<b>Dr. Viktoriya Semeykina</b> , University of Utah, <b>USA</b>
<b>15:15 - 15:30</b>	Covalent Chitosan-Polyethylenimine Derivatives as Gene Delivery Vehicles <b>L. Nicolle</b> , C.M.A. Journot, P. Robin, J. Casper, P. Detampel, M. Williman, H.-M. Grisch-Chan, T. Einfalt, B. Thöny, J. Huwyler and S. Gerber-Lemaire	<b>Ms. Laura Nicolle</b> , Ecole Polytechnique Fédérale de Lausanne, <b>Switzerland</b>
<b>15:30 - 15:45</b>	Novel hybrid nanoparticles for Alzheimer's disease theranostic: efficient overcoming of nanomaterials across the blood-brain-barrier <b>C. I. P. Chaparro</b> , V. Neves, J.P. Borges and P. I. P. Soares	<b>Ms. Catarina Chaparro</b> , Nova University of Lisbon, <b>Portugal</b>

<b>15:45 - 16:00</b>	Modulation of lipid metabolism in brain cells using poly-ion complex micelles containing CoA-conjugated CPT1A inhibitors <b>W. Paraiso</b> , J. Garcia-Chica, X. Ariza, S. Zagmutt, S. Fukushima, J. Garcia, Y. Mochida, D. Serra, L. Herrero, H. Kinoh, N. Casals, K. Kataoka, R. Rodríguez-Rodríguez and S. Quader	<b>Dr. West Paraiso</b> , Innovation Center of Nanomedicine, <b>Japan</b>
<b>16:00 - 16:30</b>	<b>Afternoon Coffee Break</b>	
<b>Session's Chairs:</b> <b>Prof. Albert van den Berg, University of Twente, The Netherlands</b> <b>Prof. Paula Pereira Marques, University of Aveiro, Portugal</b>		
<b>16:30 - 16:45</b>	Development of hybrid carbon nanotubes/gold nanostars for cancer treatment by hyperthermia <b>R. Soltani</b> , A. Abou-Hassan, C. Wilhelm, A. Bianco and C. Ménard-Moyon	<b>Ms. Rym Soltani</b> , University of Strasbourg, <b>France</b>
<b>16:45 - 17:00</b>	Flavin Adenine Dinucleotide (FAD)-Complex Gold Nanoparticles: Chemical Design, Physico-Chemical and assessment therapeutic Effects of FAD on a Breast Cancer Model of Mouse <b>C. Arib</b> , H. Liu, Q. Liu, A-M. Cieutat, D. Paleni, X. Li and J. Spadavecchia	<b>Ms. Arib Celia</b> , University of Sorbonne Paris Nord, <b>France</b>
<b>17:00 - 17:15</b>	Development of smart core/shell NPs as a drug platform for their further use in cancer therapy <b>D. Louaguef</b> , E. Gaffet and H. Alem-Marchand	<b>Ms. Dounia Louaguef</b> , CNRS- Lorraine University, <b>France</b>
<b>17:15 - 17:30</b>	Development of an effective tumor-targeted contrast agent for Magnetic Resonance Imaging based on Mn/H-Ferritin nanocomplexes <b>L. Salvioni</b> , C. Tullio, M. Bellini, A. Degrassi, L. Fiandra, M. D'Arienzo, F. Testa, D. Prospero and M. Colombo	<b>Dr. Lucia Salvioni</b> , University of Milano-Bicocca, <b>Italy</b>
<b>17:30 - 17:45</b>	Nanopore Sensing of Single-Biomolecule: Challenges in Protein Sequencing using Solid-State Nanopores <b>A. Nicolaï</b> , A. Urquiola Hernández and P. Senet	<b>Dr. Adrien Nicolaï</b> , CNRS- University of Bourgogne Franche-Comté, <b>France</b>
<b>17:45 - 18:00</b>	A biophotonics-based biosensor for extracellular vesicles characterization in Alzheimer's disease patients <b>S. Picciolini</b> , A. Gualerzi, F. Rodà and M. Bedoni	<b>Dr. Silvia Picciolini</b> , Don Carlo Gnocchi Foundation, <b>Italy</b>
<b>18:00 - 18:15</b>	Biophotonics-based characterization of multifunctionalized liposomes as therapeutic agents for Glioblastoma and Alzheimer's Disease <b>F. Rodà</b> , S. Picciolini, A. Gualerzi, F. Re, A. Antoniou, S. Giofrè, P. Seneci and M. Bedoni	<b>Mrs. Francesca Rodà</b> , Don Carlo Gnocchi Foundation, <b>Italy</b>
<b>18:15 - 18:30</b>	Development of DOTAREM-Gold-Complex: A new multifunctional nanotheranostic agent for Cholangiocarcinoma <b>M. Khan</b> , N. Djaker and J. Spadavecchia,	<b>Ms. Memona Khan</b> , University of Sorbonne Paris Nord, <b>France</b>
<b>18:30 - 18:45</b>	Magnetic nanoparticles to stimulate nerve regeneration on a neuroepithelial stem cell model <b>S. De Vincentiis</b> , M. Baggiani, J. Lopane, V. Cappello, M. Mainardi, M. Di Caprio, A. Falconieri, M. Costa, M. Onorati, V. Raffa	<b>Mrs. Sara De Vincentiis</b> , University of Pisa, <b>Italy</b>
<b>18:45 - 19:00</b>	Toxicity of carbon nanomaterials - towards reliable viability assessment via new approach in flow cytometry <b>T. Malina</b> , K. Poláková, C. Hirsch, L. Svoboda and R. Zbořil	<b>Mr. Tomas Malina</b> , Palacky University, <b>Czech Republic</b>

## EGF 2021 Onsite Session I

## Onsite Conference Colonne A+B

## Session's Chairs:

Prof. Vito Di Noto, University of Padova, Italy

Dr. Eugene Kogan, Bar Ilan University, Israel

Dr. Alberto Bianco, University of Strasbourg, France

Prof. Paola Barbara, Georgetown University, USA

08:30 – 08:45	Graphene Oxide and Derivatives, Properties and Applications <b>B. Gjoka</b> and R. Wendelbo	<b>Dr. Blerina Gjoka</b> , Abalonyx As, Norway
08:45 - 09:00	Liquid-Phase Exfoliation of Graphene: Comparison of Laser-Induced Graphene and Graphite as Precursors <b>B. Kulyk</b> , A. F. Carvalho, D. Santos, B. F. R. Silva, A. J. S. Fernandes, B. R. Figueiredo, R. P. Silva, V. E. Abrantes, A. Bernardes and F. M. Costa	<b>Mr. Bohdan Kulyk</b> , Univ. of Aveiro, Portugal
09:00 - 09:15	Steam reforming towards freestanding gas phase few layer graphene <b>P. Fortugno</b> , H. Wiggers and C. Schulz	<b>Mr. Paolo Fortugno</b> , University of Duisburg-Essen, Germany
09:15 - 09:30	Solution Processed Graphene-Nanographene van der Waals Hetero-structures for Photodetectors with Efficient and Ultralong Charge Separation <b>Z. Liu</b> , S. Fu, A. Narita, A. Ciesielski, M. Bonn, K. Müllen, H.I. Wang and P. Samori	<b>Dr. Zhaoyang Liu</b> , University of Strasbourg, France
09:30 - 09:45	Visible-frequency plasmons in nanocorrugated graphene <b>P. Vancsó</b> , G. Dobrik, P. Nemes-Incze, B. Majerus, P. Süle, G. Piszter, M. Menyhárd, B. Kalas, P. Petrik, L. Henrard and L. Tapasztó	<b>Dr. Peter Vancso</b> , Institute of Technical Physics and Materials Science, Centre for Energy Research-Budapest, Hungary
09:45 - 10:00	2D layered metal phosphorous trichalcogenides for electrochemical energy conversion reactions <b>R. Gusmao</b>	<b>Dr. Rui Gusmao</b> , Univ. of Chemistry and Technology Prague, Czech Republic
10:00 - 10:30	<b>Morning Coffee Break</b>	
10:30 - 11:00	Biodegradability and safety of carbon and bi-dimensional nanomaterials <b>A. Bianco</b>	<b>Dr. Alberto Bianco</b> , University of Strasbourg, France
11:00 - 11:30	Low Pt loading Hierarchical Oxygen Reduction Electrocatalysts with a Graphene “Core” and a Carbon Nitride “Shell” <b>V. Di Noto</b> , E. Negro, A. Nale, K. Vezzù and G. Pagot	<b>Prof. Vito Di Noto</b> , University of Padova, Italy
11:30 - 12:00	Symmetry of Electron Bands in Graphene: (Nearly) Free Electron Versus Tight-Binding <b>E. Kogan</b> and V. M. Silkin	<b>Dr. Eugene Kogan</b> , Bar Ilan University, Israel
12:00 - 12:15	Screening properties of graphene and its effect on electronic states <b>V. M. Silkin</b> , E. Kogan and G. Gumbs	<b>Prof. Vyacheslav Silkin</b> , Univ. of the Basque Country, Spain
12:15 - 12:30	Electron Diffraction and Photoemission from Few-Layer Graphene <b>E. Krasovskii</b>	<b>Prof. Eugene Krasovskii</b> , University of the Basque Country, Spain
12:30 - 12:45	Graphene Quantum Dots Bolometers for Studies of Single Molecule Magnets L. St Marie, L. Havlicek, J. Hruby, A. Alqahtani, D. Henry, A. Sojka, J. Navarro, R. Myers-Ward, D. Gaskill, A. El Fatimy, A. Liu, I. Nemeč, P. Neugebauer and <b>P. Barbara</b>	<b>Prof. Paola Barbara</b> , Georgetown University, USA
12:45 - 13:00	Electrochemical Remediation of Chlorinated Ethenes Contamination Using N-functionalized Graphene Electrode <b>H. Ma</b> and H.C.B. Hansen	<b>Ms. Hui Ma</b> , University of Copenhagen, Denmark
13:00 - 13:15	Anaerobic Bioreduction of Dye Molecules by Ceramic-Supported Graphene Oxide Membranes <b>M. S. A. Amin</b> , F. Stüber, J. Giralt, A. Fabregat and J. Font	<b>Mr. Mohammad Shaiful Amin</b> , Rovira i Virgili University, Spain

<b>13:15 - 13:30</b>	Performance Evaluation of Nitrogen-doped Graphene / Carbon Black Supported Pt3Co Nanoparticles as PEM Fuel Cell Cathode Electrocat-alyt <b>D. K. Perivoliotis</b> , X. Jia and T. Wågberg	<b>Dr. Dimitrios Perivoliotis</b> , Umea University, <b>Sweden</b>
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## Virtual Presentations Sessions

The virtual presentations are to be held through the Whova Virtual event solution and can be joined online. Any onsite participant wishing to take part of these virtual sessions, will have the room Giardino A+B available for seating.

**20 October 2021**

<b>EGF 2021 Virtual Session</b>		
<b>Virtual Conference Room 1</b>		
<b>Session's Chairs:</b> <b>Prof. Gerd Bacher, University of Duisburg-Essen, Germany</b> <b>Prof. Vladimir Falko, Manchester University, UK</b>		
<b>10:30 - 11:00</b>	Graphene Origami Enabled Negative Poisson's Ratio in Metal Nanocomposites <b>J. Yang</b>	<b>Prof. Jie Yang</b> , RMIT University, <b>Australia</b>
<b>11:00 - 11:30</b>	Mass Production Technology of CVD Graphene Materials for Setting the Cornerstone of Graphene Industry <b>Z. Liu</b>	<b>Prof. Zhongfan Liu</b> , Peking University, <b>China</b>
<b>11:30 - 12:00</b>	Ensuring Robust International Graphene Standards for Industry <b>A. Pollard</b>	<b>Dr. Andrew J. Pollard</b> , National Physical Laboratory, <b>UK</b>
<b>12:00 - 12:30</b>	Graphene in 200mm pilot line <b>M. Lukosius</b>	<b>Dr. Mindaugas Lukosius</b> , IHP, <b>Germany</b>
<b>12:30 - 13:00</b>	Quantum Field Theory in Graphene: a Numerical Approach <b>A. Rodi</b>	<b>Prof. Aleksandr Rodin</b> , National University of Singapore, <b>Singapore</b>
<b>13:00 - 14:00 Lunch Break</b>		
<b>Session's Chairs:</b> <b>Dr. Mindaugas Lukosius, IHP, Germany</b> <b>Dr Andrew J. Pollard, National Physical Laboratory, UK</b> <b>Prof. M. Natalia D.S. Cordeiro, University of Porto, Portugal</b>		
<b>14:00 - 14:30</b>	Ferroelectric domains and networks of piezoelectric domains in twistrionic bilayers of transition metal dichalcogenides <b>V. Falko</b>	<b>Prof. Vladimir Falko</b> , Manchester University, <b>UK</b>
<b>14:30 - 15:00</b>	Scalable 2D materials for optoelectronic applications: Fabrication and device integration <b>G. Bacher</b>	<b>Prof. Gerd Bacher</b> , University of Duisburg-Essen, <b>Germany</b>
<b>15:00 - 15:30</b>	Boosting the properties of 2D materials with molecules: multi-responsive and high-performance based opto-electronic devices <b>P. Samori</b>	<b>Prof. Paolo Samori</b> , University of Strasbourg, <b>France</b>
<b>15:30 - 16:00</b>	Beyond Graphene – How MXenes Expand the Range of 2D Materials for Electronics, Optics and Communication <b>Y. Gogosti</b>	<b>Prof. Yury Gogotsi</b> , Drexel University, <b>USA</b>
<b>16:00 - 16:30 Afternoon Coffee Break</b>		
<b>Session's Chairs:</b> <b>Dr. Mindaugas Lukosius, IHP, Germany</b> <b>Dr Andrew J. Pollard, National Physical Laboratory, UK</b>		
<b>16:30 - 17:00</b>	Spintronics in 2D van der Waals materials <b>B. van Wees</b>	<b>Prof. Bart van Wees</b> , University of Groningen, <b>Netherlands</b>
<b>17:00 - 17:15</b>	Disclosing the Covalent Functionalisation of Graphene by PAMAM Dendrimers and their Applications by Molecular Simulations <b>M. N. D. S. Cordeiro</b> , V. Velachi, M. Gosika and P. K. Maiti	<b>Prof. M. Natalia D.S. Cordeiro</b> , University of Porto, <b>Portugal</b>
<b>17:15 - 17:30</b>	Laser Induced Backwards Transfer (LIBT) of graphene onto glass. <b>M. Praeger</b> , R. W. Eason and B. Mills	<b>Dr. Matthew Praeger</b> , Univ. of Southampton, <b>UK</b>
<b>17:30 - 17:45</b>	Transfer of large-area wrinkled graphene onto polymeric substrates <b>P. Narute</b> , R.S. Sharbidre, C. Jun Lee, B. Cheon Park, H-J. Jung, J-H. Kim and S-G. Hong	<b>Mr. Prashant Narute</b> , University of Science and Technology - Daejeon, <b>Rep. of Korea.</b>

<b>17:45 - 18:00</b>	Chemical-Free Acoustofluidic Synthesis of Ultrathin Pristine Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene Nanosheets and Quantum Dots <b>H. Alijani</b> , A. R. Rezk, M. M. Khosravi Farsani, H. Ahmed, J. Halim, P. Reineck, B. J. Murdoch, A. El-Ghazaly, J. Rosen and L. Y. Yeo	<b>Mr. Hossein Alijani</b> , RMIT University- Melbourne, <b>Australia</b>
<b>18:00 - 18:15</b>	Laser Induced Forward Transfer of Graphene for flexible touch sensors <b>A. Logotheti</b> , F. Zacharatos, S. Papazoglou, A. Pesquera, A. Zurutuza and I. Zergioti	<b>Ms. Adamantia Logotheti</b> , National Technical University of Athens, <b>Greece</b>
<b>18:15 - 18:30</b>	Memristive Graphene/Ionic Liquid Devices: Characterization and Demonstration of Associative Learning <b>I. Köymen</b> , S. Liu, S. Ergöktaş and C. Kocabaş	<b>Dr. Itir Köymen</b> , Engineering, TOBB University of Economics and Technology, <b>Turkey</b>
<b>18:30 - 18:45</b>	Dirac nodal- loops in two-dimensional Cu <sub>2</sub> Si <b>M. Cameau</b> , C.-H. Chen, A. Huang, R. Ishibiki, T. Kondo, H.-T. Jeng, I. Matsuda and M. D'angelo	<b>Mr. Mathis Cameau</b> , Sorbonne University, <b>France</b>
<b>18:45 - 19:00</b>	Graphene-coated E-textiles based on hydrophilic and hydrophobic fabrics <b>B. Meskini</b> , T. Bashir and N-K. Persson	<b>Mr. Bilel Meskini</b> , University of Borås, <b>Sweden</b>
<b>19:00 - 19:15</b>	Fabrication of Graphene/n-Silicon Schottky Heterojunction for Detection of Free Chlorine in Aqueous Solutions <b>S. Angizi</b> , P. Ravi Selvaganapathy and P. Kruse	<b>Mr. Shayan Angizi</b> , McMaster University, <b>Canada</b>

## Smart Materials and Surfaces - SMS 2021 Virtual Session

## Virtual Conference Room 1

Workshop on InComEss EU Project:  
INnovative polymer-based COmposite systeMS for high-efficient Energy Scavenging and StorageSession's Chairs:  
Dr. Cintia Mateo-Mateo, AIMEN, Spain

08:00 - 08:15	InComEss project overview <b>C. Mateo-Mateo</b>	<b>Dr. Cintia Mateo-Mateo</b> , AIMEN, Spain
08:15 - 08:45	Graphene liquid crystal-based dielectrics <b>P. Poulin</b>	<b>Dr. Philippe Poulin</b> , Centre de Recherche Paul Pascal-CNRS- Bordeaux, France
08:45 - 09:15	Li-ion batteries: characterization using EIS <b>R. Novoa</b>	<b>Dr. X. Ramón Novoa</b> , University of Vigo, Spain
09:15 - 09:30	Development of lead-free piezoelectric fibres <b>N. Azoia</b>	<b>Dr. Nuno G. Azoia</b> , CeNTI, Portugal
09:30 - 09:45	Research on thermoelectric polymer-based composites at IPF Dresden <b>B. Krause</b>	<b>Dr. Beate Krause</b> , Leibniz Institute for Polymer Research, Germany
09:45 - 10:00	Printed monolithic supercapacitor <b>M. Mäntysalo</b>	<b>Prof. Matti Mäntysalo</b> , Tampere Univ., Finland
10:00 - 10:15	Piezoelectric Vibration Energy Harvester – State of the Art Systems Implementations and Economics <b>J. Kunzmann</b>	<b>Dr. Jan Kunzmann &amp; Enrique de Pablo Corona</b> Smart Materials GMBH, Germany
10:15 - 10:30	Development of High Energy Ultracapacitors from an Industrial Perspective <b>M. Klose</b>	<b>Mr. Markus Klose</b> , Skeleton Technologies, Estonia
10:30 - 11:00	Morning Coffee Break	
Session's Chairs: Prof. Nuria Aliaga-Alcalde, ICMAB-CSIC Barcelona, Spain Prof. Aimé Lay-Ekuakille, University of Salento, Italy		
11:00 - 11:30	Molecular Switches at Interfaces and in Junctions: A Theoretical Insight <b>J. Cornil</b>	<b>Prof. Jérôme Cornil</b> , Université de Mons, Belgium
11:30 - 12:00	Micronics: A New Platform for Soft Transparent Technology <b>Y-H Chu</b>	<b>Prof. Ying-Hao Chu</b> , National Tsing-Hua Univ., Taiwan
12:00 - 13:00	Lunch Break	
Session's Chairs: Prof. Jérôme Cornil, Université de Mons, Belgium Dr. Anna Laromaine, Institut Ciencia de Materials de Barcelona, Spain Prof. Aimé Lay-Ekuakille, University of Salento, Italy		
13:00 - 13:15	Laser based pick and place of 2D nanomaterials <b>N.T. Goodfriend</b> , O. Gatsa, A.V. Bulgakov, O. A. Nerushev, T. Hotta, C. Zhao, R. Kitaura, E.E.B. Campbell, N.M. Bulgakova and T. Mocek	<b>Dr. Nathan Goodfriend</b> , HiLASE Centre, Inst. of Physics of the Czech Academy of Sciences, Czech Republic
13:15 - 13:30	Extending the scope for Curcuminoids: from active components on graphene devices to the creation of 2D materials <b>N. Aliaga-Alcalde</b> , A. González-Campo, D. Herrera-Miranda, R. Zaffino, D. Riba-López, T. Carcona-Lamarca, R. Díaz-Torres, L. Rodríguez-Cid, C. Domingo, M. Soler, H. van der Zant and E. Ruiz	<b>Prof. Nuria Aliaga-Alcalde</b> , ICMAB-CSIC Barcelona, Spain
13:30 - 13:45	Curcuminoid-based active surfaces towards the development of new metal heterogeneous detectors <b>A. González-Campo</b> , R. Gimeno-Muñoz and N. Aliaga-Alcalde	<b>Dr. Arantzasu Gonzalez-Campo</b> , ICMAB-CSIC-Barcelona, Spain

13:45 - 14:15	Smart Electromagnetic Surfaces: A Key-Enabling Technology for Future Wireless Systems M. Barbuto , Z. Hamzavi-Zarghani, M. Longhi, A. Monti, D. Ramaccia, S. Vellucci, A. Toscano and <b>F. Bilotti</b>	<b>Prof. Filiberto Bilotti</b> , Roma Tre University, <b>Italy</b>
14:15 - 14:45	Emerging Applications of Boron Nitride Nanotubes for Advanced Electronics and Biomedicine <b>Y. Khin Yap</b>	<b>Prof. Yoke Khin Yap</b> , Michigan Technological University, <b>USA</b>
14:45 - 15:00	Rational Design of RblxMnII[FeIII(CN)6](2+x)/3.zH2O (RbMnFe) Prussian Blue Analogue (PBA) Nanoparticles (NPs) for Switchable Magnetic and Non-linear Optical Properties <b>T. T. Vu</b> , N. Daro, S. Mornet, E. Freysz and G. Chastanet	<b>Ms. Thi Thiet Vu</b> , University of Bordeaux, <b>France</b>
15:00 - 15:15	Transport of Magnetic Microparticles on a Self-Assembled 2D Lattice through an Externally Monitored Potential <b>F. Martínez-Pedrero</b> , F. Ortega, R.G. Rubio and C. Calero	<b>Dr. Fernando Martínez-Pedrero</b> , Complutense University of Madrid, <b>Spain</b> .
15:15 - 15:30	Challenges on fabrication of the microstructured magnetic actuation systems based on Ni-Mn-Ga single crystal <b>D. Musiienko</b> , M. Kohl and O. Heczko	<b>Dr. Denys Musiienko</b> , Institute of Physics of the Czech Academy of Sciences, <b>Czech Republic</b>
15:30 - 16:00 <b>Afternoon Coffee Break</b>		
<b>Session's Chairs:</b> <b>Prof. Yoke Khin Yap, Michigan Technological University, USA</b> <b>Dr. Petr Sittner, Czech Academy of Sciences, Czech Republic</b>		
16:00 - 16:15	Biomimetic fiber webs based on conducting polymer with actuation and self-sensing capabilities <b>M. Beregoi</b> , A. Evanghelidis and I. Enculescu	<b>Dr. Mihaela Beregoi</b> , National Institute of Materials Physics, <b>Romania</b>
16:15 - 16:30	Shaped organic printed films for photosensing devices <b>S. Sequeira</b> , V. C. Martins, R. Vilarinho, J. Agostinho Moreira, S. Cardoso, H. Alves and D. C. Leitao	<b>Ms. Sara Sequeira</b> , INESC-MN-Lisbon, <b>Portugal</b>
16:30 - 17:00	Catalytic transformation of methane to C1-C2 <b>J. Tang</b>	<b>Prof. Junwang (John) Tang</b> , University College London, <b>UK</b>
17:00 - 17:30	Material Computations for Energy Storage <b>W. Lu</b>	<b>Prof. Wei Lu</b> , University of Michigan, <b>USA</b>
17:30 - 17:45	Novel platinum (II) complexes for light-emitting devices <b>F. Fagnani</b> , A. Colombo, C. Dragonetti, D. Roberto, D. Marinotto and M. Cocchi	<b>Mr. Francesco Fagnani</b> , University of Milan, <b>Italy</b>
17:45 - 18:00	Pixelated Smart Window for High Dynamic Range Signage Displaying Applications <b>Q. Jin</b> , Q. Zhang, J. Chen, T. Gehring, S. Eizaguirre, R. Huber, G. Gomard, U. Lemmer and R. Kling	<b>Mr. Qihao Jin</b> , Karlsruhe Institute of Technology, <b>Germany</b>
18:00 - 18:15	Telomeric DNA Fragments and Carbon Nanotubes as pH Controlled Carriers of Doxorubicin. Molecular Level Analysis. <b>T. Panczyk</b>	<b>Prof. Tomasz Panczyk</b> , Jerzy Haber Institute of Catalysis and Surface Chemistry, <b>Poland</b>
18:15 - 18:30	Ionic Liquids as a green tool for melanin manipulation at the nanoscale: nanotechnological perspectives <b>M. Ambrico</b> , P. Manini, L. Guazzelli, A. Mezzetta, L. Valgimigli, P.F. Ambrico, T. Ligonzo and M. d'Ischia	<b>Mrs. Marianna Ambrico</b> , CNR- ISTP- Bari, <b>Italy</b>
18:30 - 18:45	Innovative virtual approach for treatment of fears and enhancement of cognitive abilities G.Scavone, D.Benatti, M.Donadio, A.Ruoto, D. Sinitò, E. Massa and <b>V. Santarcangelo</b>	<b>Dr. Vito Santarcangelo</b> , informatica Srl, <b>Italy</b>

<b>Sensors 2021 Virtual Session</b>		
<b>Virtual Conference Room 1</b>		
<b>Session's Chairs: Session's Chairs:</b> <b>Prof. Danila Moscone, University of Rome Tor Vergata, Italy</b> <b>Prof. Carole Chaix, Claude Bernard University Lyon 1, France</b> <b>Dr. Stela Maria Pruneanu, INCDTIM Cluj-Napoca, Romania</b>		
<b>08:30 - 09:00</b>	Applications of Graphene Modified Electrodes <b>S.M. Pruneanu</b>	<b>Dr. Stela Maria Pruneanu,</b> INCDTIM Cluj-Napoca, <b>Romania</b>
<b>09:00 - 09:15</b>	Validation of data from an artificial sniffer dog by common analytical techniques. <b>I. Hardy</b> , M. H. Jakobsen, T. Treiberg, C. H. Gotfredsen and E. Dossi	<b>Ms. Iona Hardy,</b> Cranfield University, <b>UK</b>
<b>09:15 - 09:30</b>	pH sensor using silver nanoparticles embedded in silica-coated optical fibres <b>S. Debnath</b> , Y-C. Chen, T. Green, G. Hinds and S. Roy	<b>Mr. Shaon Debnath,</b> University of Strathclyde, <b>UK</b>
<b>09:30 - 09:45</b>	Rapid, Cost-Effective, and Intelligible Bi-Electrode Electrochemical Sensing System for Detection of Attomole-Level Dengue Virus Sequence <b>T. Agarkar</b> , S. Ghosh and A. Kumar	<b>Ms. Tanvi Agarkar,</b> Bennett University, <b>India</b>
<b>09:45 - 10:00</b>	Widening the Range of Trackable Environmental and Health Pollutants for Li-Garnet-Based Sensors <b>M. Balaish</b> and J. L.M. Rupp	<b>Dr. Moran Balaish,</b> Massachusetts Institute of Technology, <b>USA</b>
<b>10:00 - 10:30</b>	<b>Morning Coffee Break</b>	
<b>10:30 - 10:45</b>	New illumination / sensing platform <b>R. Trihan</b> , A. Aimable, F. Rossignol, J. Kowalko, H. Węglarz, A. Szysiak, A. Kozłowska, B. Fetliński, B. Janaszek, M. Kaczkan, M. Ihle, S. Ziesche, P. Giemza and M. Szczypa	<b>Dr. Romain Trihan,</b> Institute of Research for Ceramics- Limoges, <b>France</b>
<b>10:45 - 11:00</b>	BTEX Detection: Merging MEMS Technology with Metal Ion-Functionalized Au MPCs to Exploit Cation- $\pi$ Interactions <b>P. K. Adhietty</b> , S. Halder, D. M. Smith, X. Fu and M. H. Nantz	<b>Mrs. Prasadanie Adhietty,</b> University of Louisville, <b>USA</b>
<b>11:00 - 11:15</b>	Effect of scattering loss on optimized waveguide enhanced Raman spectroscopy sensors <b>Z. Liu</b> , M.A. Etabib, J.S. Wilkinson and M.N. Zervas	<b>Mr. Zhen Liu,</b> University of Southampton, <b>UK</b>
<b>11:15 - 11:45</b>	Paper-based electrochemical (bio)sensors as novel more sustainable devices <b>D. Moscone</b>	<b>Prof. Danila Moscone,</b> University of Rome Tor Vergata, <b>Italy</b>
<b>11:45 - 12:00</b>	Bioanalytical Applications of Enzyme-Mimicking Inorganic Nanoparticles <b>V.G. Panferov</b> , I.V. Safenkova, N. A. Byzova, A.V. Zherdev, B.B. Dzantiev and A.N Bach	<b>Dr. Vasily Panferov,</b> Research Center of Biotechnology of the Russian Academy of Sciences, <b>Russia</b>
<b>12:00 - 12:15</b>	Quartz crystal microbalance-based sensor for accurate quantification and administration of drug loaded solid lipid nanoparticles for drug re-lease in-vitro study <b>M. Consumi</b> , L. Talarico, G. Leone and A. Magnani	<b>Dr. Marco Consumi,</b> University of Siena, <b>Italy</b>
<b>12:15 - 12:30</b>	Sensing in Service of Cultural Heritage Protection from Negative Effects of Climate Change <b>A. Krukowski</b> and E. Vogiatzaki	<b>Dr. Artur Krukowski,</b> RFSAT-Limited, <b>Ireland</b>
<b>12:30 - 12:45</b>	Highly fluorescent organic radical nanoparticles as nanothermometer for biological applications <b>N. Gonzalez-Pato</b> , D. Blasi, I. Diez-Zabala, S. Srinivasan, X. Rodriguez-Rodriguez, J. Guasch, A. Laromaine, J. Veciana and I. Ratera	<b>Ms. Nerea González Pato,</b> Institute of Material Science of Barcelona (ICMAB-CSIC), <b>Spain.</b>
<b>12:45 - 13:00</b>	Real-time Thermographic Object Tracking of the Body Temperature of a Neonate <b>K. Rassels</b> and P.J. French	<b>Mr. Kianoush Rassels,</b> TU-Delft, <b>The Netherlands</b>

<b>NanoMed 2021 Virtual Session</b>		
<b>Virtual Conference Room 2</b>		
<b>Session's Chairs:</b> <b>Prof. Nuno C. Santos, IMM Lisbon, Portugal</b> <b>Dr. Gerard Tobias, ICMAB-CSIC, Spain</b>		
<b>08:30 - 09:00</b>	Gold Nanorods as Theranostic Agent. Applications in Barrett Oesophagus, Hepatocarcinoma and Bladder Cancer <b>M. Comes Franchini</b>	<b>Dr. Mauro Comes Franchini</b> , University of Bologna, Italy
<b>09:00 - 09:30</b>	Atomic force microscopy as a nanotool for the assessment of cardiovascular patients <b>N.C. Santos</b>	<b>Prof. Nuno C. Santos</b> , IMM Lisbon, Portugal
<b>09:30 - 09:45</b>	AgNP synthesized by reduction with natural photosensitizer hypericin <b>R. Rey-Méndez</b> , N. González-Ballesteros, F. Fabbri, G. Salviati, F. Bigi and M.C. Rodríguez-Argüelles	<b>Ms. Raquel Rey-Mendez</b> , University of Vigo, Spain
<b>09:45 - 10:00</b>	Deformable liposomes loaded into dissolving microneedle array for metastatic melanoma targeting: a preformulation study. <b>S. Demartis</b> , A.J. Paredes, F. Volpe-Zanutto, L.K. Vora, E. Lupinu, E. Gavini and R.F. Donnelly	<b>Ms. Sara Demartis</b> , University of Sassari, Italy
<b>10:00 - 10:15</b>	Ultra-Magnetic Liposomes: a Versatile Tool for Cancer Therapy C. Thebault, A. Michel, J. Seguin, N. Mignet, B.-T Doan and <b>C. Ménager</b>	<b>Prof. Christine Ménager</b> , Sorbonne University, France
<b>10:00 - 10:30</b>	<b>Morning Coffee Break</b>	
<b>10:30 - 11:00</b>	RNA gene medicines: evolution of synthetic carriers <b>E. Wagner</b>	<b>Prof. Ernst Wagner</b> , Ludwig-Maximilians Univ, Germany
<b>11:00 - 11:30</b>	Hybrid nanomaterials for biomedical imaging <b>G. Tobias</b>	<b>Dr. Gerard Tobias</b> , ICMAB-CSIC, Spain
<b>11:30 - 12:00</b>	"Quantum water" in nanoparticulate systems which has a great influence on membrane penetration <b>I.T. Degim</b>	<b>Prof. Ismail Tuncer Degim</b> , Biruni University-Istanbul, Turkey
<b>12:00 - 12:15</b>	Temperature-responsive nanogels containing SPIONs and miRNAs for targeted delivery in wound healing and skin regeneration applications. The EuroNanoMed project TENTACLES A. Paolini, S.P. Bruno, A. Sobolevs, A. Plotniece, M.K. Chmielewski, N. Krówczyńska, L. Le Hégarat, K. Hogeveen, M. Sramkova, A. Gabelova, A. Caporali, N. Cassinelli, B. Sanz and <b>A. Masotti</b>	<b>Dr. Andrea Masotti</b> , Bambino Gesù Children's Hospital-IRCCS, Italy.
<b>12:15 - 12:30</b>	Antimicrobial Nanomaterials: will be able to generate Bacterial Resistance? <b>B.L. España-Sánchez</b> , F.B. Ramírez Montiel, N.A. Hernández-Santos, M.M. Hernández-Orozco, F. Padilla-Vaca, M.Y. Reyes-Vidal and G. Luna-Bárceñas	<b>Dr. Beatriz Liliana España Sánchez</b> , Center of Research and Technology Development in Electrochemistry, Mexico
<b>12:30 - 12:45</b>	Nanosystems as enhancements of cell regeneration <b>A. Minò</b> , G. Testa and L. Ambrosone	<b>Mr. Antonio Minò</b> , University of Molise, Italy
<b>12:45 - 13:00</b>	Molecular Dynamic study of antitumoral drug Cisplatin confinement inside edge-functionalized carbon nanotubes and its release near cell membrane <b>A. Mejri</b> , B. Tangour, G. Herlem and F. Picaud	<b>Dr. Alia Mejri</b> , Université Bourgogne Franche-Comte, France
<b>13:00 - 13:15</b>	Evaluation of cytotoxicity of thiolated organosilica nanoparticles and the effect of PEGylation on toxicity reduction <b>B. A. Zhaisanbayeva</b> , E. A. Mun, I.A. Vorobjev, G. Hortelano and V. V. Khutoryanskiy	<b>Ms. Zhaisanbayeva</b> , Nazarbayev University, Kazakhstan

## Posters Session

As the event is held on hybrid mode, all Posters are being displayed through the Whova solution

N.	Poster Title	Author, Affiliation, Country
1.	Liquid/aerosol-based atmospheric pressure plasma deposition (APPD) of nanoparticle and metal salt-containing HMDSO coatings <b>E. Pycha</b> , S. Chwatal, M. Stummer, S. Gümüs, A. Schwan, J. Lackner and W. Waldhauser	<b>Ms. Eva Pycha</b> , Joanneum Research, <b>Austria</b>
2.	Laser texturing of PET in silver nanoparticle colloids <b>J. Siegel</b> , J. Pryjmaková and V. Švorčík	<b>Dr. Jakub Siegel</b> , Univ. of Chemistry and Technology Prague, <b>Czech Rep.</b>
3.	Cellulose-based composite aerogel: perspectives for environmental applications <b>M. Zannotti</b> , A. Rossi and R. Giovannetti	<b>Dr. Marco Zannotti</b> , University of Camerino, <b>Italy</b>
4.	High Sensitive Ultrathin Flexible Thermoplastic Polyurethane/Carbon Black Fibrous Film Strain Sensor with Adjustable Scaffold Networks <b>X. Wang</b> , X. Liu, and D. W. Schubert	<b>Mr. Xin Wang</b> , Friedrich-Alexander-University Erlangen-Nuremberg, <b>Germany</b>
5.	Fast and Green Fabrication of Silica Nanoparticles Coated with Nanosilver as Efficient Antimicrobial Agents <b>A. Abduraimova</b> , T. Mulikova, A. Duisembekova, A. Molkenova, D. Kanayeva and T.S. Atabaev	<b>Ms. Abduraimova</b> , Nazarbayev University, <b>Kazakhstan</b>
6.	Influence of different types of modifiers on ice adhesion and hydrophobic properties of epoxy resins <b>G. Morgiante</b> , M. Piłkowski and J. Marczak	<b>Dr. Gianluca Morgiante</b> , Polish Center for Technology Development- Wrocław, <b>Poland</b>
7.	Optimization of the Optical Characteristics of a Multilayer Coating with Thin Films of Germanium Telluride <b>E. Pritotskii</b> and M. Pankov	<b>Mr. Egor Pritotskii</b> , Institute on Laser and Information Technologies of Russian Academy of Sciences, <b>Russia</b>
8.	Fluorinated compound as surface free energy lowering agent in hydrophobic coatings <b>M. Piłkowski</b> , G. Morgiante and J. Marczak	<b>Mr. Michał Piłkowski</b> , Polish Center for Technology Development- Wrocław, <b>Poland</b>
9.	Surface Coatings for Small Aircraft Brakes Application <b>M. Granata</b> and F. Bellucci	<b>Dr. Marco Granata</b> , CRdC Tecnologie Scarl, <b>Italy</b>
10.	Characterization of materials resulted from spent automotive catalysts using spectrometric techniques <b>M. Senila</b> , O. Cadar, S. Böringer, K. Seaudeau-Pirouley and P. Lacroix-Desmazes	<b>Dr. Senila Marin</b> , INCDO-INOE 2000, Research Institute for Analytical Instrumentation, <b>Romania</b>
11.	Bipolar Benzophenone Compounds Bearing Tetrahydrocarbazolyl- and 2-Phenylindolyl- moieties for Application in Optoelectronics <b>E. Jatautiene</b> , R. Keruckiene, J. Keruckas, R. Sebastine Bernard, J. Simokaitiene, D. Volyniuk and J. Vidas Grazulevicius	<b>Dr. Egle Jatautiene</b> , Kaunas University of Technology, <b>Lithuania</b>
12.	Mechanochromic luminescent properties of donor-acceptor type organic emitters based on benzanthrone and carbazole moieties <b>D. Volyniuk</b> , U. Tsiko, G. Sych, O. Bezikonny, R. Keruckiene, J. Keruckas, R. Sebastine Bernard, E. Jatautiene, A. Lazauskas and J. Vidas Grazulevicius	<b>Dr. Dmytro Volyniuk</b> , Kaunas University of Technology, <b>Lithuania</b>
13.	Amplification of Pyroelectric Device with WSe <sub>2</sub> Field Effect Transistor and Ferroelectric Gating <b>S. Mbisike</b> , J. Phair, L. Eckart and R. Cheung	<b>Mr. Stephen Mbisike</b> , University of Edinburgh, <b>UK</b>
14.	Fabrication of PVDF Porous Structure via Fused Filament Fabrication for Energy Harvesting <b>A. Saleh</b> , G.W. Melenka and S Ning Leung	<b>Ms. Ayatullah Elsayed</b> , York University, <b>Canada</b>
15.	Electrochemical detection of cymoxanil fungicide with new graphene modified glassy carbon electrode <b>C. Varodi</b> , A. Ciorita, A. Turza, F. Pogacean, M. Coros and S. Pruneanu	<b>Dr. Codruta Varodi</b> , INCNTIM Cluj-Napoca, <b>Romania</b>
16.	Molecular Dynamics of Graphene-Electrolyte Interface: Effects of Charged Graphene on Interfacial Solution Structure and Molecular Diffusion <b>J. Dočkal</b> , M. Lísal and F. Moučka	<b>Mr. Jan Dočkal</b> , J. E. Purkinje University, <b>Czech Republic</b>

17.	Synthesis of Heteroatom co-doped Graphene Nanostructures and their Applications <b>M Coros</b> , F Pogăcean, C Varodi, A Turza, T Radu A Ciorîța and S Pruneanu	<b>Dr. Maria Coros</b> , INCDTIM Cluj-Napoca, <b>Romania</b>
18.	Electrocatalytic properties of NGr-ZnO hybrid materials <b>F. Pogacean</b> , M. Stefan, C. Varodi, M. Coros, L. Magerusan, V. Mirel and S. Pruneanu	<b>Dr. Florina Pogacean</b> , INCDTIM Cluj-Napoca, <b>Romania</b>
19.	Trifluoromethylphenyl-disubstituted derivatives of dimethylacridan and phenothiazine for multifunctional sensing and lighting applications <b>R. Keruckiene</b> , B-Y. Lin, C.-H. Chen, C.-C. Chu, C.-F. Lin, T.-L. Chiu, J.-H. Lee and J. V. Grazulevicius	<b>Dr. Rasa Keruckienė</b> , Kaunas University of Technology, <b>Lithuania</b>
20.	Multifunctional silica-based sensors for real-time viral screening <b>P. Robin</b> , C.M.A. Journot, L. Mayoraz, D. Nicolis, L. Barnebei, C. Tiarantelli, L. Cascione, F. Lucarini, D. Staedler, F. Bertoni, I. Stefanini and S. Gerber-Lemaire	<b>Ms. Perrine Robin</b> , École Polytechnique Fédérale de Lausanne, <b>Switzerland</b>
21.	Two-dimensional Pnictogens (Monoelemental Nanosheets of Bi or Sb) as Transducing Materials in Electrochemical Sensing <b>A. Lazanas</b> and M. Prodromidis	<b>Mr. Alexandros Lazanas</b> , University of Ioannina, <b>Greece</b>
22.	3D-Sparking Head Aided Screen-Printed Electrode-to-Graphite Pencil In-situ Tailoring of Sensing Surface with Graphitic Nanomaterials: Application to the Determination of Guanine and Adenine in Saliva and of 8-hydroxy-2'-deoxyguanosine in Urine <b>M. Trachioti</b> , A. Papavasileiou, J. Hrbac and M. Prodromidis	<b>Ms. Maria Trachioti</b> , University of Ioannina, <b>Greece</b>
23.	Combining Health Coaching with Remote Monitoring: A Study of the Effectiveness for Hypertension Patients C. Markert, K. Zahed and <b>F. Sasangohar</b>	<b>Prof. Farzan Sasangohar</b> , Texas A&M University, <b>USA</b>
24.	Molecular layering method as base for producing of smart materials <b>N.V. Zakharova</b> and A.A. Malygin	<b>Mrs. Natalia Zakharova</b> , St. Petersburg State Technological Institut., <b>Russia</b>
25.	Iterative non-negative constrained deconvolution for waveguide enhanced Raman spectroscopy signal recovery <b>Z. Liu</b> , M.A. Ettabib, B.M. Bowden, A. Marti, P.N. Bartlett, J.S. Wilkinson and M.N. Zervas	<b>Mr. Zhen Liu</b> , University of Southampton, <b>UK</b>
26.	High Triplet Energy Aryl Sulfones for Exciplex-Based White Electroluminescent Devices <b>J. Keruckas</b> , X. Tan, D. Volyniuk, J.V. Gražulevičius, R.S. Bernard, U. Tsiko, K. Ivaniuk, I. Helzhynskyy and P. Stakhira	<b>Dr. Jonas Keruckas</b> , Kaunas University of Technology, <b>Lithuania</b>
27.	Disposable amperometric aptasensor for Troponin I based on carboxy-ethylsilanetriol-modified graphene oxide coated electrodes <b>A. Villalonga</b> , I. Estabiel, A. M. Pérez-Calabuig, B. Mayol, C. Parrado and R. Villalonga	<b>Ms. Anabel Villalonga</b> , Complutense University of Madrid, <b>Spain</b>
28.	Monitoring of the evolution of human chronic wounds using a ninhydrin-based sensory polymer and a smartphone <b>S. Vallejos</b> , M. Guembe-García, V. Santaolalla-García, N. Moradillo-Renuncio, S. Ibeas, J.A. Reglero, F.C. García, J. Pacheco, S. Casado and J.M. García	<b>Dr. Saul Vallejos</b> , The university of Burgos, <b>Spain</b>
29.	Impact of patch-potentials on capacitive displacement measurements <b>L. Daul</b> , I. Busch, T. Jin, L. Koenders, M. Weinert and H. Wolff	<b>Mr. Lars Daul</b> , The Physikalisch-Technische Bundesanstalt (PTB), <b>Germany</b>
30.	Polymer-ceramic composites containing hydroxyapatite for supporting bone tissue regeneration <b>B. Tyliszczak</b> , M. Głąb, A. Drabczyk, S. Kudłacik-Kramarczyk and A. Sobczak-Kupiec	<b>Prof. Bożena Tyliszczak</b> , Cracow University of Technology, <b>Poland</b>
31.	Smart composites as carriers of active substances <b>A. Sobczak-Kupiec</b> , D. Słota, W. Florkiewicz, K. Piętak and M. Dyląg	<b>Prof. Agnieszka Sobczak-Kupiec</b> , Cracow University of Technology, <b>Poland</b>
32.	Polymer-ceramic composite coatings modified with active agents <b>W. Florkiewicz</b> , D. Słota, K. Piętak, B. Tyliszczak and A. Sobczak-Kupiec	<b>Mrs. Wioletta Florkiewicz</b> , Cracow University of Technology, <b>Poland</b>
33.	Biocompatibility assessment of polymer-ceramic composites loaded with plant extract <b>D. Słota</b> , W. Florkiewicz, K. Piętak, A. Szwed, M. Włodarczyk, M. Siwińska, K. Rudnicka and A. Sobczak-Kupiec	<b>Mrs. Dagmara Słota</b> , Cracow University of Technology, <b>Poland</b>



34.	Tuning the size, shape and pore structure of mesoporous silica nanoparticles <b>M. Llenas</b> , S. Sandoval, C. Martínez, M. Florensa and G. Tobias	<b>Ms. Marina Llenas Martínez</b> , ICMAB-CSIC, Spain
35.	Redox-Sensitive Core-Multishell Nanocarrier Systems <b>K. Rajes</b> , K. A. Walker, S. Hadam, F. Zabih, J. Ibrahim-Bacha, G. Germer, P. Patoka, B. Wassermann, F. Rancan, E. Rühl, A. Vogt and R. Haag	<b>Ms. Keerthana Rajes</b> , The Free University of Berlin, Germany
36.	Functionalization of harmonic nanoparticles for multimodal imaging and theranostic applications. <b>A. Gheata</b> , R. De Matos, J. Vuilleumier, G. Gaulier, G. Campargue, L. Bonacina, D. Staedler, D. Diviani and S. Gerber-Lemaire	<b>Mr. Adrian Gheata</b> , École Polytechnique Fédérale de Lausanne, Switzerland
37.	Synthesis and characterization of multifunctional iron-doped ZnO nanoparticles for anti-tumoral applications <b>M. Carofiglio</b> , M. Laurenti, L. Racca, S. Barui, N. Garino and V. Cauda	<b>Mr. Marco Carofiglio</b> , The Polytechnic University of Turin, Italy
38.	Developing doped ZnO-based immunocompatible tumor targeted nanotheranostics to improve pancreatic cancer treatment <b>S. Barui</b> , N.M. Percivalle, M. Conte, B. Dumontel, L. Racca, M. Carofiglio and V. Cauda	<b>Dr. Sugata Barui</b> , The Polytechnic University of Turin, Italy
39.	Investigation of the anticancer effects of ZnO nanocrystals remotely activated <b>L. Racca</b> and V. Cauda	<b>Dr. Luisa Racca</b> , The Polytechnic University of Turin, Italy
40.	Protein-stabilized amorphous Titania Nanoparticles for Sonodynamic Therapy <b>V. Vighetto</b> , L. Racca, M. Canta, J.C. Matos, M. Clara Gonçalves and V. A. Cauda	<b>Ms. Veronica Vighetto</b> , The Polytechnic University of Turin, Italy
41.	In vitro evaluation of biomimetic nanoparticles for liver cancer treatment <b>M. J. Bigaj-Józefowska</b> , E. L. Coy, M. Grabowska, S. Jurga and B. F. Grześkowiak	<b>Ms. Magdalena Bigaj-Józefowska</b> , Adam Mickiewicz University, Poland
42.	Development of Multifunctional Nanocarriers Based on PAMAM Dendrimers for Gene/drug co-delivery for Targeted Colorectal Cancer Therapy <b>B. Bulkurcuoğlu</b> , MU Gurbuz, K. Pavlov, S. Tyciakova, M Matuskova, M Tulu and S Ercelen	<b>Mr. Bünyamin Bulkurcuoğlu</b> , TUBITAK MRC Genetic Engineering and Biotechnology Institute, Turkey
43.	Simple design of antibody-based microarrays via DNA-directed immobilization in multiplex diagnostics of viral infections <b>S. Karoń</b> , M. Drozd and E. Malinowska	<b>Ms. Sylwia Karoń</b> , Warsaw University of Technology, Poland
44.	Magnetically Induced Cargo Release Inside Living Cells <b>L.M. Nack</b> , Z. Li, D. Zhu and W.J. Parak	<b>Mr. Leroy M. Nack</b> , University of Hamburg, Germany
45.	Delivery of Macromolecular Drugs via Silica Particle Based Surface Coatings <b>Y. Brasse</b> and A. Kraegeloh	<b>Dr. Yannic Brasse</b> , Leibniz Institute for New Materials, Germany
46.	Stimuli-Responsive Polymer-Coated Gold Nanourchins for Controlled Delivery of Dasatinib Hydrophobic Tyrosine Kinase Inhibitor <b>A-S. Tatar</b> , M. Baia, S. Astilean and S. Boca	<b>Dr. Andra-Sorina Tatar</b> , Babeş-Bolyai University, Romania
47.	Gelidium corneum mediated synthesis of gold nanoparticles with enhanced antiinflammatory and antioxidant potential <b>N. González-Ballesteros</b> , L. Diego-González, M. Lastra-Valdor, M. Grimaldi, A. Cavazza, F. Bigi, R. Simón-Vázquez and M. C. Rodríguez-Argüelles	<b>Dr. Noelia González Ballesteros</b> , University of Vigo, Spain
48.	Enzyme-controlled Mesoporous Nanomachine for Triple-responsive Controlled Delivery <b>B. Mayol</b> , V. Dato, M. Estravís, C. de la Torre, P. Díez, S. Jimenez-Falcao, A. Villalonga, F. Sancenón, A. Sánchez, P. Martínez-Ruiz, R. Martínez-Máñez and R. Villalonga	<b>Ms. Beatriz Mayol</b> , Complutense University of Madrid, Spain
49.	Evaluation of green nanofibers-based composite materials as biosensor for selective glycoproteins detection <b>M. Florescu</b> , M. David, K. Mamatkulov and G. Arzumanyan	<b>Dr. Monica Florescu</b> , Transilvania University of Brasov, Romania
50.	Determination of glucosamine hydrochloride used for the treatment of periodontal disease by high performance liquid chromatography <b>D. A. Scurtu</b> , O. Cadar, E. Kovacs, L. Senila and C. Roman	<b>Dr Daniela Alexandra Scurtu</b> , INCDO INOE 2000, ICIA Cluj-Napoca, Romania
51.	Biodistribution of Gold in Mice Tissues with Gold Nanostructured Compound Administration <b>O. Cadar</b> , M. Senila, A.I. Torok and T. Mocan	<b>Dr. Oana Cadar</b> , INCDO INOE 2000, ICIA Cluj-Napoca, Romania

52.	Determination of Trace Amounts of Silver in Various Simulated Biological Fluids by Graphite Furnace Atomic Absorption Spectrometry <b>O. Cadar</b> , D. Scurtu, A.M. Hoaghia and A. Ilea	<b>Dr. Oana Cadar</b> , INCDO INOE 2000, ICIA Cluj-Napoca, <b>Romania</b>
53.	Development and validation of a spectrometric method for the evaluation of biodistribution of gold nanoparticles <b>A.I. Torok</b> , C. Tanaselia, T. Mocan and O. Cadar	<b>Dr. Anamaria Iulia Torok</b> , INCDO INOE 2000, ICIA Cluj-Napoca, <b>Romania</b>
54.	SiO <sub>2</sub> -decorated Parylene C micropillars designed to probe cellular force <b>Z. Fohlerova</b> , I. Gablech, A. Otahal and P. Fecko	<b>Dr. Zdenka Fohlerova</b> , Brno University of Technology, <b>Czech Rep.</b>
55.	Selective Detection of Nickel Ions with Silver Nanoparticle-Based Sensor <b>A. Rossi</b> , M. Zannotti, M. Cuccioloni, M. Minicucci, L. Petetta, M. Angeletti and R. Giovannetti	<b>Mr. Andrea Rossi</b> , University of Camerino, <b>Italy</b>
56.	Functionalized self-assembled AuNPs at the liquid-liquid inter-face with alkyne-based ferrocenyl derivative <b>J. Catalán-Toledo</b> and N. Crivillers	<b>Mr. Jose Catalan Toledo</b> , ICMAB-CSIC), <b>Spain</b>
57.	Ferrocene-containing Porous Poly(ionic liquid) Membrane and its Conversion into Porous Iron Oxide Film <b>A. Khorsand Kheirabad</b> and J. Yuan	<b>Ms. Atefeh Khorsand Kheirabad</b> , Stockholm University, <b>Sweden</b>
58.	Porous Silicon-Based Microarray Platforms with Carbon Dots Functionalization for Enhanced Viral Detection <b>L. Gogianu</b> , M.A. Popescu, A. Radoi, A. Sălceanu, A. Boldeiu, G. Craciun and M. Simion	<b>Ms. Larisa Gogianu</b> , National Institute for Research and Development in Microtechnologies – IMT Bucharest, <b>Romania</b>
59.	THEVETIA PERUVIANA ROOTS EXTRACT MEDICATED GOLD NANOPARTICLES AND ITS UREASE INHIBITORY ACTIVITY <b>S. Bawazeer</b>	<b>Mr. Saud Bawazeer</b> , Department Pharmaceutical Chemistry, University Umm Al-Qura Univeristy, Makkah, <b>Saudi Arabia</b>
60.	Anthraquinone-carbon modified as hybrid electrode for energy storage system <b>S. Alshehri</b> , G. Wildgoose, J. Fielden	<b>Ms. Sarah Alshehri</b> , University of East Anglia, <b>UK</b>
61.	Radiation Curable Hydrophobic Fluorinated Palm Oil based Urethane Acrylate Resin for Wood Coating Application N.B. Ismail, A. N. Jamaluddin, N.Othman, M.S. Alias, K. A. A. Halim, M. Mohamed, R. Tajau and <b>M. H. Harun</b>	<b>Dr. Mohd Hamzah Harun</b> Radiation Processing Technology Division, Malaysian Nuclear Agency, <b>Malaysia</b>
62.	Bi-Layered Cantilever Based Opto-Mechanical Holographic Sensor <b>F.R. McGovern</b> , C. Grogan, G. Amarandei, I. Naydenova	<b>Mr. Faolan Radford McGovern</b> , Technological University Dublin, <b>Ireland</b>
63.	Development of volume holographic optical elements for application in wound healing monitoring <b>P. Stoeva</b> , T. Mikulchyk, B. Rogers, M. Oubaha, S. Martin, D. Cody, M.A. Ferrara, G. Coppola, and I. Naydenova	<b>Ms. Pamela Stoeva</b> , Technological University Dublin, <b>Ireland</b>