

# Nanotech / Biotech / NanoMatEn / NanoMetrology 2021

## Joint Virtual Conferences Program

23 - 25 June 2021 (GMT + 2 Time Zone)

<b>June 23, 2021</b>		
<b>Nanotech France session I.A</b>		
<b>Virtual Conference Room 1</b>		
<b>Session's Chairs:</b> <b>Prof. Jacques Jupille, Institut des Nanosciences de Paris, France</b>		
<b>10:00 -10:30</b>	Exploiting Functional Materials for a Better Life <b>R.F.P. Martins</b> , S. Nandy and E.Fortunato	<b>Prof. Rodrigo Ferrão de Paiva Martins</b> , Nova Univ. of Lisbon, <b>Portugal</b>
<b>10:30 -11:00</b>	A sustainable alternative to flexible electronics based on metal oxide materials <b>E. Fortunato</b> , P. Barquinha, E. Carlos, R. Branquinho and R. Martins	<b>Prof. Elvira Fortunato</b> , New Univ. of Lisbon, <b>Portugal</b>
<b>11:00 - 11:30</b>	Synthesis of mesoporous organosilica nanoparticles for biomedical application <b>X. Cattoen</b>	<b>Dr. Xavier Cattoen</b> , CNRS-Néel Institute, <b>France</b>
<b>11:30- 12:00</b>	Structural and chemical analyses at the atomic scale of low dimensional materials by TEM <b>R. Arenal</b>	<b>Prof. Raul Arenal</b> , University of Zaragoza, <b>Spain</b>
<b>12:00- 12:30</b>	Trends in nanometrology using smart sensing with electron microscopes <b>L. C Gontard</b> and JJ Sáenz Noval	<b>Dr. Lionel Cervera Gontard</b> , Univ. of Cadiz, <b>Spain</b>
<b>12:30-13:00</b>	Identification and quantification of TiO <sub>2</sub> anatase and rutile nanoparticles in binary mixture by Raman spectroscopy <b>A.M. Rossi</b>	<b>Dr. Andrea Mario Rossi</b> , National Institute of Metrological Research Turin, <b>Italy</b>
<b>13:00 - 14:00 Mid-Day Break / Posters Session</b>		
<b>Nanotech - Session I.B:</b> <b>Nanomaterials Fabrication / Synthesis / Charecterisation</b>		
<b>Virtual Conference Room 1</b>		
<b>Session's Chairs:</b> <b>Prof. Jacques Jupille, Institut des Nanosciences de Paris, France</b> <b>Dr. Anna Laura Pisello, University of Perugia, Italy</b> <b>Prof. Raul Arenal, University of Zaragoza, Spain</b>		
<b>14:00 - 14:30</b>	Surface engineering of nanomaterials for water treatment <b>A.L.Daniel da Silva</b>	<b>Dr. Ana Luísa Daniel da Silva</b> , University of Aveiro, <b>Portugal</b>
<b>14:30 - 14:45</b>	Challenges on 2D materials in PVDF porous membranes designed to water desalination <b>A. Gugliuzza</b> , M. Frappa, F. Macedonio, G. Di Luca and E. Drioli	<b>Dr. Annarosa Gugliuzza</b> , Institute on Membrane Technology- CNR-ITM, <b>Italy</b>
<b>14:45 - 15:00</b>	Scalable and sustainable synthesis to produce iron oxide nanoparticles <b>L. Macera</b> , V. Daniele and G. Taglieri	<b>Dr. Ludovico Macera</b> , University of L'Aquila, <b>Italy</b>
<b>15:00 - 15:15</b>	Sustainable and eco-compatible nanolime based treatments in aqueous medium for the conservation of cultural heritage <b>V. Daniele</b> , L. Macera and G. Taglieri	<b>Dr. Valeria Daniele</b> , University of L'Aquila, <b>Italy</b>
<b>15:15 - 15:30</b>	Design, synthesis and characterization of polystyrene nanoparticles doped with lanthanide complexes for photoacoustic and near-infrared luminescence imaging <b>A. Kovalenko</b> , G. Collet, S. Natkunarajah, S. Lerondel, S. V. Eliseeva and S. Petoud	<b>Mr. Anton Kovalenko</b> , CNRS/UPR4301-Orléans, <b>France</b>
<b>15:30 - 15:45</b>	Tunable red-to-white luminescence of strontium vanadate <b>P. Wozny</b> , M. Runowski and S. Lis	<b>Mr. Przemysław Wozny</b> , Adam Mickiewicz University Poznan, <b>Poland</b>

<b>15:45 – 16:00</b>	Study of Cu coordination core in copper complexes grafted onto Au nanorods <b>I. Schiesaro</b> , I. Venditti, C. Battocchio, M. Pellei, C. Santini and C. Meneghini	<b>Ms. Irene Schiesaro</b> , Roma Tre University, <b>Italy</b>
<b>16:00 - 16:30 Afternoon Break / Posters Session</b>		
<b>16:30 - 16:45</b>	Detection of organophosphorous compounds with nanostructured microcantilever-based sensors <b>J-P. Brach</b> , G. Thomas, V. Keller and M. Comet	<b>Mr. Jean-Philippe Brach</b> , French-German Research Institute of Saint-Louis, <b>France</b>
<b>16:45 - 17:00</b>	Highly reproducible gram-scale CdSe/CdS giant-shelled nanocrystal synthesis with tunable particle geometry <b>S. Krohn</b> , A. Mews and J. S. Niehaus	<b>Ms. Sonja Krohn</b> , Fraunhofer IAP-CAN, <b>Germany</b>
<b>17:00 - 17:15</b>	Nanofibrillar Green Composites of Polylactide/Polyamide Produced in Situ Due to Shear Induced Crystallization R. Hosseinnezhad, <b>I. Vozniak</b> , J. Morawiec and A. Galeski	<b>Dr. Iurii Vozniak</b> , Polish Academy of Sciences-Lodz, <b>Poland</b>
<b>17:15 - 17:30</b>	Multi-functional Natural Fiber Composites for Shear Loading <b>S. Yang</b> , V.B. Chalivendra and Y. Kim	<b>Prof. Yong K. Kim</b> , Univ. of Massachusetts Dartmouth, <b>USA</b>
<b>17:30 - 17:45</b>	The effect of sintering temperature on the electro physical properties of Silicon-polymer based composite Varistors M. Dadgar and <b>F. Tayefi Ardebili</b>	<b>Ms. Faranak Tayefi Ardebili</b> , Jagiellonian University, <b>Poland</b>
<b>17:45 - 18:00</b>	The effect of sintering pressure on the electro physical properties of Silicon-polyaniline–polyethylene composite Varistors F. Tayefi Ardebili and <b>M. Dadgar</b>	<b>Mr. Meysam Dadgar</b> , Jagiellonian University, <b>Poland</b>
<b>18:00 - 18:15</b>	MBE Growth and NC-AFM/KPFM characterization of 2 D materials under UHV environment : graphene and silicene. <b>H. Ichou</b> and D.Martrou	<b>Mr. Hamza Ichou</b> , Paul Sabatier University, <b>France</b>
<b>18:15 – 18:30</b>	Optimization of the terminations and stability of polyynes through ns-pulsed laser ablation in organic solvents <b>P. Marabotti</b> , S. Peggiani, R. A. Lotti, A. Facibeni, P. Serafini, V. Russo, A. Li Bassi and C. S. Casari	<b>Mr Pietro Marabotti</b> , Polytechnic University of Milan, <b>Italy</b>
<b>18:30 – 18:45</b>	Electrospun nanofibers with photocatalytic particles for carbon sorption <b>Y. Tskhe</b> , M. Buzgo and A. Simate	<b>Ms. Yekaterina Tskhe</b> , University of Montpellier, <b>France</b>
<b>18:45 – 19:00</b>	Silica and alumina-silica based aerogels reinforced with aramid fibres as promising candidates for Space applications <b>M.E. Ghica</b> , C.M.R. Almeida, L. Rebelo, G. Cathoud-Pinheiro and L. Durães	<b>Dr. Mariana E. Ghica</b> , University of Coimbra, <b>Portugal</b>

**June 23, 2021**  
**Biotech France session I.C**

**Virtual Conference Room 2**

**Session's Chairs:**  
**Prof Ralf Takors, University of Stuttgart, Germany**  
**Dr. Alfred Fernández-Castané, Aston University, UK**  
**Dr. Ioscani Jiménez del Val, University College Dublin, Ireland**

<b>14:00 - 14:30</b>	Synthetic Biology for a Sustainable World <b>R.I Kitney</b>	<b>Prof. Richard Ian Kitney,</b> Imperial College London, <b>UK</b>
<b>14:30 - 15:00</b>	Microbial Electrochemical Technologies Enable New Biotechnological Processes <b>J.O Krömer</b>	<b>Dr. Jens O. Krömer,</b> Helmholtz Centre for Environmental Research - UFZ, <b>Germany</b>
<b>15:00 - 15:30</b>	The potential of microbial biotechnology toward a low-carbon bioeconomy <b>A. Fernández-Castané</b> and P. Thornley	<b>Dr. Alfred Fernández-Castané,</b> Aston University, <b>UK</b>
<b>15:30 - 16:00</b>	Scaling up from lab to industrial scale minimizing performance loss: From simulation to strain engineering of E. coli M. Ziegler, J. Zieringer, M. Wild and <b>R. Takors</b>	<b>Prof Ralf Takors,</b> University of Stuttgart, <b>Germany</b>
<b>16:00 - 16:30</b>	<b>Afternoon Break / Posters Session</b>	
<b>16:30 - 17:00</b>	Model-informed biopharmaceutical glycoengineering <b>I.Jiménez del Val</b>	<b>Dr. Ioscani Jiménez del Val,</b> University College Dublin, <b>Ireland</b>
<b>17:00 - 17:30</b>	The potential of hybrid process modeling and digital twins to master the goals of industry 4.0 in bioprocessing <b>M. Sokolov;</b> H. Narayanan; M. von Stosch; Morbidelli and M. Butte	<b>Dr. Michael Sokolov,</b> DataHow AG, <b>Switzerland</b>
<b>17:30 - 17:45</b>	Gasification of biomass: Characterisation of spelt husk briquette and pellet. <b>A. Halidu,</b> E. Neofytou, P. Bilsborrow and P. Phan Anh	<b>Mr. Abubakar Halidu,</b> Newcastle University, Newcastle upon Tyne, <b>UK</b>
<b>17:45 - 18:00</b>	Removal of Poisonous Arsenic (As) from Drinking Water in Developing Countries by using Wasted Coffee Beans <b>M.Minagawa,</b> H.Akashi, Y.Osamura and D.Adolphe	<b>Mr. Gakusai Minagawa,</b> NPO- Dream-Create-Laboratories, <b>Japan</b>

**June 24, 2021**  
**Nanotech / NanoMetrology joint session II.A:**  
**Workshop on VIMMP project - Virtual Materials Marketplace (H2020 GA 760907)**

**Virtual Conference Room 1**

**Session's Chairs:**  
**Dr. Welch Leite Cavalcanti, IFAM, Germany**  
**Dr. Michael Hoffmann, IFAM, Germany**

<b>08:30 - 09:00</b>	Knowledge representation for materials modelling marketplaces <b>M. T. Horsch</b> , S. Chiacchiera, M. A. Seaton, I. T. Todorov, P. Klein, N. A. Konchakova, C. Niethammer, J. Vrabec, G. Moggi, D. Toti, G. Goldbeck, P. Schiffels and W. L. Cavalcanti	<b>Dr. Martin Thomas Horsch</b> , High Performance Computing Center Stuttgart, <b>Germany</b>
<b>09:00 - 09:30</b>	New concepts of assembling fibrous biopolymer scaffolds to control cell interactions <b>D. Brüggemann</b>	<b>Prof. Dorothea Brüggemann</b> , University of Bremen, <b>Germany</b>
<b>09:30 - 09:45</b>	Numerical simulation of food emulsion production: the mayonnaise case <b>A. Buffo</b> , M. Ferrari, G. Boccardo, M. Vanni and D. Marchisio	<b>Prof. Antonio Buffo</b> , The Polytechnic University of Turin, <b>Italy</b>
<b>09:45 - 10:00</b>	Dispersive mixing of filler agglomerates in a polymer compounding operation: A CFD-DEM investigation <b>G. Frungieri</b> , G. Boccardo, A. Buffo, D. Marchisio, A. Karimi-Varzaneh and M. Vanni	<b>Dr. Graziano Frungieri</b> , Polytechnic University of Turin, <b>Italy</b>
<b>10:00 - 10:15</b>	Salt-induced self-assembly of fibrinogen nanofibers: How the development of new biomaterials can benefit from a virtual materials marketplace <b>S. Stamboroski</b> , W. L. Cavalcanti and D. Brüggemann	<b>Dr. Stephani Stamboroski</b> , Fraunhofer Institute for Manufacturing Technology and Ad. Materials, <b>Germany</b>
<b>10:15 - 10:30</b>	Mesosopic Modelling of Interactions of Structured Fluids with Soft Surfaces <b>K. Sindelka</b> and M. Lísal	<b>Dr. Karel Sindelka</b> , Institute of Chemical Process Fundamentals- Czech Academy of Sciences, <b>Czech Republic</b>
<b>10:30 - 10:45</b>	Calculation of the work of adhesion of polyisoprene on graphite by molecular dynamics simulations <b>M. Chiricotto</b> , G. Giunta, H. A. Karimi-Varzaneh and P. Carbone	<b>Dr. Mara Chiricotto</b> , The University of Manchester, <b>United Kingdom</b>

**10:45 - 11:00 Morning Break / Posters Session**

**Nanotech France- Focused session on Nanocoatings/ Thin films and nanostructured surfaces**

**Chairs:**  
**Prof. Jacques Jupille, Institut des Nanosciences de Paris, France**  
**Prof. Elvira Fortunato, New Univ. of Lisbon, Portugal**  
**Prof. Maria Gioti, Aristotle University of Thessaloniki, Greece**

<b>11:00 - 11:15</b>	Synthesis of Nanostructured Metallic Foams by Plasma Electrolysis Deposition <b>J. Pinot</b> , R. Botrel, F. Durut, L. Reverdy, L. Pescayre and V. Vignal	<b>Mr. Julien Pinot</b> , CEA, <b>France</b>
<b>11:15 - 11:30</b>	One-step Templateless Electrosynthesis of Nanostructured PEDOT films <b>D. Wang</b> and C. Debieuvre-Chouvy	<b>Ms. Dantong Wang</b> , CNRS-Sorbonne University, <b>France</b>
<b>11:30 - 11:45</b>	Influence of element composition on thermal stability and oxidation resistance of Ti-Cr-Mo-Ni-N coatings <b>A. Chernogor</b> , I. Blinkov and A. Volkonskiy	<b>Mr. Alexey Chernogor</b> , NUST "MISIS", <b>Russia</b>
<b>11:45 - 12:00</b>	Synthesis of $\text{Ca}_{n+1}\text{Mn}_n\text{O}_{3n+1}$ thin films by Pulsed-Laser Deposition <b>B. M. Silva</b> , J. Oliveira, T. Rebelo, L. Francis, J. H. Belo, A. Lopes, J.P. Araújo, L. D. Francis and B. G. Almeida	<b>Ms. Bruna Silva</b> , Univ. Minho, <b>Portugal</b>
<b>12:00 - 12:15</b>	Using 1D nanoimprint master templates to fabricate variable 2D nanogratings in indium tin oxide <b>J. Buhl</b> , D. Yoo and M. Gerken	<b>Dr. Janek Buhl</b> , Kiel University, <b>Germany</b>

<b>12:15 - 12:30</b>	Thermal Laser Epitaxy – Ultrapure Epitaxy beyond PLD and MBE <b>W. Braun</b> , D. Yeong Kim, T.J. Smart, H. Boschker, S. Smink, L.N. Majer and J. Mannhart	<b>Dr. Wolfgang Braun</b> , Max Planck Institute for Solid State Research, <b>Germany</b>
<b>12:30 - 12:45</b>	Spectroscopic ellipsometry studies on solution processed OLED devices: optical properties and interfacial layers <b>M. Gioti</b>	<b>Prof. Maria Gioti</b> , Aristotle University of Thessaloniki, <b>Greece</b>
<b>12:45 - 13:00</b>	Preparation of High Density Polyurethane Surfaces for Metallization <b>B. Aykac</b> , Y. Oz, I. Karakaya and M. Erdogan	<b>Mrs. Büşra Aykaç</b> , Turkish Aerospace., Advanced Materials Process and Energy Technologies Center, <b>Turkey</b>
<b>13:00 - 14:00</b>	<b>Mid-Day Break / Posters Session</b>	

<b>June 24, 2021</b> <b>Nanotech/ Nanometrology - Session II.B:</b> <b>Nanomaterials Modelling and Characterisation</b>		
<b>Virtual Conference Room 1</b>		
<b>Session's Chairs:</b> <b>Prof. Eden Mamut, Ovidius University of Constanta, Romania</b> <b>Prof. Antonio Buffo, The Polytechnic University of Turin, Italy</b>		
<b>14:00 - 14:30</b>	How can we "see" and "feel" the dynamics at nanoscale: A scanning probe microscope approach <b>Q. Zou</b>	<b>Prof. Qingze Zou</b> , Rutgers University, USA
<b>14:30 - 15:00</b>	Manufacture and calibration of high stiffness AFM cantilevers <b>J. Bowen, D. Cheneler and J. Vicary</b>	<b>Dr. James Bowen</b> Univ. of Birmingham, UK
<b>15:00 - 15:15</b>	Nanoscale monitoring of the molecular complexes structural and mechanical changes by use of the AFM <b>J. Pribyl, J. Vitecek and L. Kubala</b>	<b>Dr. Jan Pribyl</b> , CEITEC MU, Masaryk University, Czech Republic
<b>15:15 - 15:30</b>	SiC Nanowire Foams for pressure detection <b>Y. Chen, Y. Xia and Y. Zhu</b>	<b>Mr. Yu Chen</b> , University of Exeter, UK
<b>15:30 - 15:45</b>	In situ generation of sub-10 nm silver nanowires under electron beam irradiation in a TEM <b>L. D. Francis</b> and J. Li	<b>Dr. Leonard D. Francis</b> , International Iberian Nanotechnology Laboratory Portugal
<b>15:45 - 16:00</b>	Challenges on inline monitoring of nanosized polymer materials <b>S. Schlappa</b> , L. Bressel, M. Münzberg and A. Bergner	<b>Ms. Stephanie Schlappa</b> , University of Potsdam, Germany
<b>16:00 - 16:30</b>	<b>Afternoon Break / Posters Session</b>	
<b>Session's Chairs:</b> <b>Dr. James Bowen Univ. of Birmingham, UK</b>		
<b>16:30 - 16:45</b>	Comb-referenced interferometry in nanopositioning and nano-measuring machines <b>U. Blumroder</b> , P. Kochert, T. Fröhlich, R. Füßl, I. Ortlepp, U. Gerhardt, R. Mastyllo, J. Flügge, H. Bosse and E. Manske	<b>Dr. Ulrike Blumroder</b> , Ilmenau University of Technology, Germany
<b>16:45 - 17:00</b>	Nanoplastics characterization at the biological interface <b>S. Ducoli</b> , S. Federici, L. Paolini, A. Radeghieri, P. Bergese, E. Bontempi and L.E. Depero	<b>Ms. Serena Ducoli</b> , University of Brescia, Italy
<b>17:00 - 17:15</b>	Disease Control via Mosquito Nano-Tech-Repellents <b>J. Bozeman</b>	<b>Dr. James Bozeman</b> , American University of Malta, Malta
<b>17:15 - 17:30</b>	Molecular Dynamics of ion transport through SWCNTs: a focus on water model and pore geometrical parameter effects. <b>A. Mejri</b> , G. Herlem and F. Picaud	<b>Dr. Alia Mejri</b> , Bourgogne-Franche-Comte University, France.
<b>17:30 - 17:45</b>	Ring-o-rings: joining the ends of poly[M]-catenanes to control supramolecular torsion <b>L. Tubiana</b> , F. Ferrari and E. Orlandini	<b>Dr. Luca Tubiana</b> , University of Trento, Italy
<b>17:45 - 18:00</b>	Experimental study of colloidal particles confined in a droplet formed in a microfluidic channel <b>L. Chagot</b> , M. Kalli and P. Angeli	<b>Dr. Loïc Chagot</b> , University College London, UK
<b>18:00 - 18:15</b>	The Effect of Particle Loading, Surfactant Concentration and Sonication Time on The Wettability Of Multi-Walled Carbon Nanotubes Based Nanofluid <b>M.A. Hassan</b> , T .A. Osman, F. Elharouni, H.A. Kishawy, H. Hegab and A.M.K. Esawi	<b>Mr. Mohamed A. Hassan</b> , The American University in Cairo, Egypt.
<b>18:15 - 18:30</b>	Colloidal Suspension of Silver Nanoparticles for Random Dispersion of LASER Beams <b>E. Mamut</b> , L. Oancea, G. Prodan and A. Enache	<b>Prof. Eden Mamut</b> , Ovidius University of Constanta, Romania

**June 24, 2021**  
**Nanotech / Biotech Joint session II.C**

**Virtual Conference Room 2**

**Session's Chairs:**  
**Dr. Ling Peng, CNRS, Aix-Marseille University, France**  
**Dr. Jolanta Pulit-Prociak, Cracow University of Technology, Poland**

<b>09:30 - 10:00</b>	Self-assembling supramolecular dendrimer nanosystems for biomedical applications <b>L. Peng</b>	<b>Dr. Ling Peng, CNRS, Aix-Marseille University, France</b>
<b>10:00 - 10:30</b>	The interplay of efficiency and biodegradation for inorganic nanohybrids in cancer or regenerative therapies. <b>C.Wilhelm</b>	<b>Dr. Claire Wilhelm, Paris Diderot University, France</b>
<b>10:30 - 11:00</b>	<b>Morning Break / Posters Session</b>	
<b>11:00 - 11:15</b>	Fundamental Chronobiological Changes in Nanostructure of Bone Tissue <b>A. A. Pavlychev, X.O. Brykalova and N.N. Kornillov</b>	<b>Prof. Andrey Pavlychev, St.Petersburg State University, Russia</b>
<b>11:15 - 11:30</b>	Antibacterial nanostructured coatings on high-touch surfaces to prevent pathogen transmission in hospital settings. <b>M. Stanzione, G. G. Buonocore, M. Lavorgna, A.M. Marcelloni, I. Amori, A.R. Proietto, A. Chiominto, E. Paba and A. Mansi</b>	<b>Dr. Mariamelia Stanzione, CNR - National Research Council, Italy</b>
<b>11:30 - 11:45</b>	Flexible NO <sub>2</sub> -Functionalized N-Heterocyclic Carbene Monolayers on Au (111) Surface <b>S. Dery, S. Kim, F.D. Toste and E. Gross</b>	<b>Mr. Shahar Dery, Hebrew University, Israel</b>
<b>11:45 - 12:00</b>	Interaction of bacteriophage lambda with lipid Langmuir Monolayers <b>A. Leader, M. Reches and D. Mandler</b>	<b>Mrs. Avia Leader, Hebrew University, Israel</b>
<b>12:00 - 12:15</b>	Integrated approach for exposure and health effects monitoring of engineered nanomaterials in workplaces and urban areas <b>A. Progiou, E. Bergamaschi, I. Guseva-Canu, C. Fito, M. Domat, S. Lopez and J. Friesl</b>	<b>Dr. Athena Progiou, AXON Enviro-Group, Greece</b>
<b>12:15 - 14:00</b>	<b>Mid-Day Break / Posters Session</b>	

**June 24, 2021**  
**Nanotech / Biotech - Session II.D:**  
**Nanotechnology for life science- Biosensors, Diagnostics and Imaging**

**Virtual Conference Room 2**

**Session's Chairs:**  
**Dr. Ling Peng, CNRS, Aix-Marseille University, France**  
**Prof. Qingze Zou, Rutgers University, USA**

<b>14:00 - 14:30</b>	Molecular Imaging with Nanodiagnostics <b>F. Kiessling</b>	<b>Prof. Fabian Kiessling,</b> RWTH Aachen University, <b>German</b>
<b>14:30 - 15:00</b>	Nanosensors for clinical applications <b>L. Baraban</b>	<b>Dr. Larysa Baraban,,</b> Helmholtz Center Dresden Rosendorf, <b>Germany</b>
<b>15:00 - 15:30</b>	Magnetic Nanoparticles in Biomedical Applications <b>T. Sen</b>	<b>Dr. Tapas Sen,</b> University of Central Lancashire, <b>UK</b>
<b>15:30 - 15:45</b>	Functionalized porous materials for the detection of low concentrated metabolites and drugs D. Bergé-Lefranc, C. Belliardo, T. N. T Phan, D. Rayeroux, C. Pardanaud, A. Merlen, K. Mabrouk, M. Rollet, D. Gignes, R. Denoyel and <b>V. Hornebecq</b>	<b>Dr. Virginie Hornebecq,</b> Aix-Marseille University, <b>France</b>
<b>15:45 - 16:00</b>	Towards a new generation of electrical biosensors based on 2D silicon nanowire networks for DNA and Thrombin detection M. Vallejo Perez, C. Ternon, F. Morisot, C. Gondran, K. Gorgy, N. Spinelli, B. Salem, M. Mouis, X. Mescot, L. Rapenne and <b>V. Stambouli</b>	<b>Mrs. Valerie Stambouli,</b> CNRS- LMGP Grenoble INP, <b>France</b>
<b>16:00 - 16:30</b>	<b>Afternoon Break / Posters Session</b>	
<b>16:30 - 16:45</b>	Engineered Graphene decorated Aluminum-based plasmonic nanostructures for biosensing applications in the optical Communication band S. Shukla, J. Yadav <sup>1</sup> , S. Jain and <b>P. Arora</b>	<b>Mr. Pankaj Arora,</b> Birla Institute of Technology and Science, <b>India</b>
<b>16:45 - 17:00</b>	Electro-Spun Silk-CNT Fibers to Stimulate Fibroblasts for Connective Tissue Repair <b>R. Wang,</b> N. Chi, S. Zheng, E. Clutter and C. Rathnayake	<b>Prof. Rong Wang,</b> Illinois Institute of Technology, <b>USA</b>
<b>17:00 - 17:15</b>	Engineering Gold Nanoshells for Targeted Therapeutics & Point-of-Care Diagnostic Technologies <b>A. E. Saunders</b> and S. J. Oldenburg	<b>Dr. Aaron E. Saunders,</b> nanoComposix, <b>USA</b>



<b>June 25, 2021</b> <b>NanoMatEn - Session III.A:</b> <b>Nanomaterials for Energy / Nanoelectronics</b>		
<b>Virtual Conference Room 1</b>		
<b>Session's Chairs:</b> <b>Dr. Xavier Cattoen, CNRS-Néel Institute, France</b> <b>Prof. Rodrigo Ferrão de Paiva Martins, Nova Univ. of Lisbon, Portugal</b>		
<b>09:00 - 09:30</b>	Nanowire solar cells: Challenging fundamental limits <b>J. Haverkort</b>	<b>Prof. Jos Haverkort</b> , Eindhoven University of Technology, <b>Netherlands</b>
<b>09:30 - 10:00</b>	Nanothermometry Through Light Emission <b>L.D. Carlos</b>	<b>Prof. Luís Dias Carlos</b> , University of Aveiro, <b>Portugal</b>
<b>10:00 - 10:30</b>	Human-centered multiphysics approach for improving livability in urban areas: the role of smart materials and novel metrics for cities resilience to anthropogenic environmental forcing <b>A.L. Pisello</b>	<b>Dr. Anna Laura Pisello</b> , University of Perugia, <b>Italy</b>
<b>10:30 - 11:00 Morning Break / Posters Session</b>		
<b>Session's Chairs:</b> <b>Prof. Luís Dias Carlos, University of Aveiro, Portugal</b> <b>Prof. Maria Gioti, Aristotle University of Thessaloniki, Greece</b> <b>Prof. Elvira Fortunato, New Univ. of Lisbon, Portugal</b>		
<b>11:00 - 11:15</b>	Efficient oxygen evolution and gas bubble release achieved by a low-gas bubble-adhesion iron-nickel vanadate electrocatalyst <b>K. Dastafkan</b> and C. Zhao	<b>Mr. Kamran Dastafkan</b> , The University of New South Wales, <b>Australia</b>
<b>11:15 - 11:30</b>	Entrapped carbon quantum dots in a composite for oxygen reduction in anion exchange membrane fuel cells <b>A. R. Nallayagari</b> , E. Sgreccia, P. Knauth and M. L. Di Vona	<b>Ms. Ashwini R. Nallayagari</b> , University of Rome Tor Vergata, <b>Italy</b>
<b>11:30 - 11:45</b>	Engineering of Electrode Materials and Interfaces in Perovskite Photovoltaics <b>L. Kavan</b>	<b>Prof. Ladislav Kavan</b> , J. Heyrovsky Institute of Physical Chemistry, <b>Czech Republic</b>
<b>11:45 - 12:00</b>	CuCrO <sub>2</sub> thin films out of stoichiometry as semi-transparent Hole Transparent Layer in performant and recyclable hybrid solar cells <b>L. Bottiglieri</b> , A. Nourdine, J. Resende, C. Jimenez and J.L. Deschanvres	<b>Mr. Lorenzo Bottiglieri</b> , LMGP/CNRS, Univ. Grenoble Alpes, <b>France</b>
<b>12:00 - 12:15</b>	Fluorescent and water-dispersible ternary alloyed Cu- and Al-co-doped ZnSeS/ZnS QDs <b>S. Mabrouk</b> , H. Rinnert, L. Balan, G. Medjahdi, R. Ben Chaabane and R. Schneider	<b>Mrs. Salima Mabrouk</b> , University of Lorraine, <b>France</b>
<b>12:15 - 12:30</b>	High performance 2D micro-supercapacitor electrode composed of graphene with polydopamine as inserts <b>A. Bouzina</b> , H. Perrot, O. Sel and C Debiemme-Chouvy	<b>Mr. Adnane Bouzina</b> , CNRS- Sorbonne University, <b>France</b>
<b>12:30 - 12:45</b>	PEO-based porous silica hybrid materials as solid electrolytes for all-solid-state lithium ion batteries C. Lebouin, <b>K. Maouacine</b> , L. Pasquini, T. N. T Phan and V. Hornebecq	<b>Mr. Koceila Maouacine</b> , Aix-Marseille University, <b>France</b>
<b>12:45 - 13:00</b>	CNT and Graphene based Nanocomposite for Enhancing the Heat Transfer Processes in Hybrid Solar Panels <b>E. Mamut</b> , L. Oancea 1, O.F. Ghinea	<b>Prof. Eden Mamut</b> , Ovidius University of Constanta, <b>Romania</b>
<b>13:00 - 14:00 Mid-Day Break / Posters Session</b>		
<b>Session's Chairs:</b> <b>Prof. Eden Mamut, Ovidius University of Constanta, Romania</b> <b>Prof. Rodrigo Ferrão de Paiva Martins, Nova Univ. of Lisbon, Portugal</b>		

14:00 - 14:15	1D and 2D confinement in CsPbBr <sub>3</sub> perovskite nanocrystals V. Steinmetz, J. Ramade, L. Legrand, T. Barisien, F. Bernardot, E. Lhuillier, I. Saïdi, A. Ghribi, K. Boudjaria, C. Testelin and <b>M. Chamarro</b> .	<b>Dr. Maria Chamarro</b> , Sorbonne University, <b>France</b>
14:15 - 14:30	Fabrication of Polarized Emissive Optical Devices Based on Anisotropic Nanomaterials <b>C. Castillo Delgado</b> , H. Schlicke, J. Niehaus, H. Weller and A. Mews	<b>Mr. Christian Castillo Delgado</b> , Fraunhofer Center for Applied Nanotechnology, <b>Germany</b>
14:30 - 14:45	Gas sensors based on PbS colloidal quantum dots <b>F. Mitri</b> , A. De Iacovo, L. Colace, M. De Luca and A. Pecora	<b>Mrs. Federica Mitri</b> , University Roma Tre, <b>Italy</b>
14:45 - 15:00	Wavelength Selective Photodetectors based on PbS Colloidal Quantum Dots as Photoactive Layers and Optical Filters <b>C. Venettacci</b> , A. De Iacovo, L. Colace and C. Giansante	<b>Dr. Carlo Venettacci</b> , University Roma Tre, <b>Italy</b>
15:00 - 15:15	OLEDs on Flexible Substrates Nanostructured with UV-Nanoimprint Lithography <b>Y. Murat</b> , K. Petersons, J. Buhl, L. Lindvold, L. Yde, J. Stensborg and M. Gerken	<b>Dr. Yolande Murat</b> , Kiel University, <b>Germany</b>
<b>NanoMatEn - Session III.B</b> <b>Nanotechnology for Environmental Application / Water treatment</b>		
<b>Session's Chairs:</b> <b>Dr. Chedly Tizaoui, Swansea University, UK</b> <b>Dr. Herman Mansur, Federal University of Minas Gerais (UFMG), Brazil</b> <b>Dr. Ana Luísa Daniel da Silva, University of Aveiro, Portugal</b>		
15:15-15:45	Nanotechnology for Water Treatment <b>C. Tizaoui</b> and <b>S. Farooq</b>	<b>Dr. Chedly Tizaoui</b> , Swansea University, <b>UK</b>
15:45-16:00	Nanocomposite Gels for Plugging of Fractures in Carbonate Oil Reservoirs <b>I. Fjelde</b> and A.A. Ogienagbon	<b>Prof. Ingebret Fjelde</b> , NORCE Norwegian Research Centre, <b>Norway</b>
<b>16:00 - 16:30 Afternoon Break / Posters Session</b>		
16:30 - 16:45	Electroless Metallisation of Textiles using Copper-based Nanoparticle Catalysts for Inkjet Printing <b>D. Fox</b> , G.T.Pourian Azar, L. Krishnan and A.J. Cobley	<b>Dr. Daryl Fox</b> , Coventry University, <b>USA</b>
16:45 - 17:00	Application of multifunctional nanoparticles for cellulose fibers modifications. <b>M. Skwierczynska</b> , M. Runowski, P. Kulpinski and S. Lis	<b>Ms. Małgorzata Skwierczynska</b> , Adam Mickiewicz University Poznan, <b>Poland</b>
17:00 - 17:15	Quaternary Semiconductor Quantum Dots/Magnetic Iron Oxide Nanoparticles Covalently Coupled through Biopolymer Ligands as Multifunctional Nanohybrids: Insights of Photocatalytic Activity for Degradation of Water Pollutants A. G. Leonel, A. A. P. Mansur, J. C.Jr. Amaral and <b>H.S. Mansur</b>	<b>Dr. Herman Mansur</b> , Federal University of Minas Gerais (UFMG), <b>Brazil</b>
17:15 - 17:30	ZnO / Fe <sub>3</sub> O <sub>4</sub> for water depollution by photocatalysis under natural sunlight <b>M. Le Pivert</b> , N. Martin and Y. Leprince-Wang	<b>Mrs Marie Le Pivert</b> , Université Paris-Est-Marne-la-Vallée, <b>France</b>
17:30 - 17:45	Doped ZnAl-CO <sub>3</sub> layered double hydroxides as DeNO <sub>x</sub> photocatalysts with enhanced visible light harvesting <b>A. Pastor</b> , F. Rodriguez-Rivas, G. de Miguel, M. Cruz-Yusta, F. Martin, I. Pavlovic and L. Sánchez	<b>Mr. Adrian Pastor</b> , Cordoba University, <b>Spain</b>
17:45 - 18:00	Transformation of CO <sub>2</sub> /bicarbonates into formate over a Ni@Ni(OH) <sub>2</sub> nanocatalyst <b>K. Philippot</b> , L. Peres, X.-P. Fu, J. Esvan, C. Amiens and N. Yan	<b>Dr. Karine Philippot</b> , LCC-CNRS Toulouse, <b>France</b>

**June 25, 2021**  
**Nanotech / Biotech - Session III.C**  
**Nanotechnology for drug and gene delivery**

**Virtual Conference Room 2**

**Session's Chairs:**  
**Dr. Tapas Sen, University of Central Lancashire, UK**  
**Prof Lucia Gutiérrez Marruedo, University of Zaragoza, Spain**

<b>09:15 - 09:30</b>	Development of multifunctional MRI immunomodulating theranostic agents for Cancer <b>M. Khan</b> , S.Boumati, A.T. Diallo, N.Djaker, Bich-Thuy Doan and J.Spadavecchia	<b>Ms. Memona Khan</b> , University Paris 13, <b>France</b>
<b>09:30 - 09:45</b>	Hybrid carbon nanotubes/gold nanostars for photothermal cancer treatment <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>09:45 - 10:00</b>	Design and Evaluation of Thermosensitive Liposomes Encapsulating Nedaplatin and Picoplatin with Controlled-Release and Enhanced Anticancer activity <b>S.A. Fahmy</b> , M. Alawak, E. Preis, A. Abu Dayyih, U. Bakowsky and T. Shoeib	<b>Dr. Sherif A. Fahmy</b> , American University in Cairo <b>Egypt</b>
<b>10:00 - 10:15</b>	Isolation of extracellular vesicles from Brassica oleracea L. (Broccoli) and study of their effect on the metabolic activity of tumor cell lines <b>M.N. Hossain</b> , V. De Leo, R. Tamborra, L. Catucci, M. Conese and S. Di Gioia	<b>Mr. Md Niamat Hossain</b> , University of Foggia, <b>Italy</b>
<b>10:15 - 10:30</b>	Evaluation of doxorubicin-loaded iron oxide nanoparticles synthesis and in vitro cytotoxicity on 4T1 tumorigenic epithelial cell lines <b>N. Maisuradze</b> , J. Markhulia, Sh. Kekutia, T. Tsertsvadze, V. Mikelashvili, L. Sanebldize, N. Leladze, M. Kriechbaum and L. Almasy	<b>Ms. Nino Maisuradze</b> , Ivane Javakhishvili Tbilisi State University, <b>Georgia</b>

**10:30-11:00 Morning Break / Posters Session**

<b>11:00 - 11:30</b>	Magnetically-Driven Drug Release from Magnetosomes: Challenges and Applications <b>A.C. Moreno-Maldonado</b> , <b>A. Toro-Córdova</b> , <b>M.R. Ibarra</b> and <b>G.F. Goya</b>	<b>Dr. Gerardo F. Goya</b> , University of Zaragoza, <b>Spain</b>
<b>11:30 - 11:45</b>	Understanding of in vivo behavior of nanosystem based on magnetic nanoparticles <b>A.G. Pershina</b> , O.Y. Brikunova, L.V. Efimova, A.M. Demin, V.A. Naumenko, E.S. Khmelevskaya, V.P. Krasnov and L.M. Ogorodova	<b>Dr. Alexandra G. Pershina</b> , Siberian State Medical University, <b>Russia</b>
<b>11:45 - 12:00</b>	Bioencapsulation capabilities of HepE Nanoparticles and their medical Applications <b>C-C. Chen</b> , M.A. Baikoghli, L-A. Chen, R. H. Cheng	<b>Dr. Chun-Chieh Chen</b> , University of California Davis, <b>USA</b>
<b>12:00 - 12:15</b>	Modified zinc oxide nanoparticles as potential drug carriers <b>J. Pulit-Prociak</b> , O. Długosz, A. Staroń and M. Banach	<b>Dr. Jolanta Pulit-Prociak</b> , Cracow University of Technology, <b>Poland</b>

**12:15 - 14:00 Mid-Day Break / Posters Session**

**June 25, 2021**  
**Nanotech / Biotech - Session III.D:**  
**Nanotechnology for life science**

**Virtual Conference Room 2**

**Session's Chairs:**  
**Dr. Gerardo F. Goya, University of Zaragoza, Spain**  
**Dr. Larysa Baraban, Helmholtz Center Dresden Rossendorf, Germany**

<b>14:00 - 14:30</b>	Pancreatic cancer treatment using magnetic hyperthermia <b>L. Gutiérrez Marruedo</b>	<b>Prof Lucia Gutiérrez Marruedo</b> , University of Zaragoza, <b>Spain</b>
----------------------	-----------------------------------------------------------------------------------------	-----------------------------------------------------------------------------

<b>14:30 - 14:45</b>	Nanoemulsions stabilized by protein to encapsulate curcumin for a topical application. <b>G. Mekhloufi</b> , N. Vilamosa and F. Agnely	<b>Dr. Ghozlene Mekhloufi</b> , University Paris Saclay, <b>France</b>
<b>14:45 - 15:00</b>	Elaboration of the size-controlled polymeric nanomaterials; Rifampicin encapsulation and in-vitro release studies <b>J. Abdurahim</b> , C.A. Serra and M. Vauthier	<b>Mr. Javid Abdurahim</b> , University of Strasbourg, <b>France</b>
<b>15:00 - 15:15</b>	Co-adsorption and co-release of 5-fluorouracil and naproxen using pH-sensitive mesoporous silica particles E. Beňová, D. Buric, <b>D. Bergé-Lefranc</b> , V. Zelenák and V. Hornebecq	<b>Mr. David Berge-Lefranc</b> , Aix Marseille Univ, <b>France</b>
<b>15:15 - 15:30</b>	Towards Smart Drug Delivering Systems: On the Absorption of Lap-onite colloids onto lipid Cubosomes <b>F. Ferdeghini</b> , C. Rerzki-Vérité, F. Cousin and F. Muller	<b>Dr. Filippo Ferdeghini</b> , ECE Paris, <b>France</b>
<b>15:30 - 15:45</b>	Ploxamer prodrug-based delivery of a pharmacologically enhanced camptothecin agent as an experimental therapy for drug-resistant neuroblastoma I.S. Alferiev , D. Guerrero, F. Nguyen, P. Guan, V. Kolla, D. Soberman, I. Fishbein, G.M. Brodeur and <b>M. Chorny</b>	<b>Dr. Michael Chorny</b> , The Children's Hospital of Philadelphia, <b>USA</b>
<b>15:45 - 16:00</b>	Captopril-loaded polymeric nanoparticles for the treatment of pediatric diseases <b>N. Nieto González</b> , A. Obinu, E. Gavini, P. Giunchedi, G. Cerri, J. Molpeceres and G.Rassu	<b>Ms Noelia Nieto González</b> , University of Sassari, <b>Italy</b>
<b>16:00 - 16:30</b>	<b>Afternoon Break / Posters Session</b>	
<b>16:30 – 16:45</b>	Application of Rose Bengal in the absence of light: targeting and treating melanoma via dermal delivered Rose Bengal-transfersomes <b>S. Demartis</b> , A. Obinu, G. Rassu, S. Murgia, L. Casula, P. Giunchedi and E. Gavini	<b>Ms. Sara Demartis</b> , University of Sassari, <b>Italy</b>
<b>16:45 – 17:00</b>	Scrutinizing nanoparticle-membrane interactions: Effects of the biomolecular corona, particle size and flow <b>C. J. Richards</b> , W. H. Roos and C. Åberg	<b>Ms. Ceri Richards</b> , University of Groningen, <b>Netherlands</b>
<b>17:00 – 17:15</b>	Novel applications of nanobiotechnology to decipher cell-materials and cell-cell interactions <b>O. Valentina</b> , I.L. Moldero, A. Chandra, F. Gentile, L. Moroni, and L.L. del Mercato	<b>Dr. Valentina Onesto</b> , CNR- NANOTEC, <b>Italy</b>

## Posters Virtual Session

Posters are being displayed through the Virtual event solution.  
Discussions are to be done through the system chat features available to the attendees.

N.	Title	Author/Affiliation/Country
1.	Synthesis of Stretchable and Environmentally Stable Conjugated Polymer PEDOT using a Random Copolymer with Modified Acid Template <b>Y. Kim</b> , J. Kim, H. Lee, C. Park, S. Im and J.H. Kim	<b>Mr. Youngno Kim</b> , Yonsei University, Rep. of Korea
2.	Optical properties and enhancement of Raman scattering of gold nanostructured arrays elaborated by scanning probe lithography <b>P. Taugeron</b> , M. Rahmani, N. Delorme and J.-F. Bardeau	<b>Mr. Pierre Taugeron</b> , Le Mans University, France
3.	The effect of nanofiller on the production of high performance multilayer fine-fibrous filter material by application of fused deposition modeling V.Beloshenko, N.Rezanova, N.Sova, R.Iskandarov and <b>A.Vozniak</b>	<b>Dr. Alina Vozniak</b> , Polish Academy of Sciences- Lodz, Poland
4.	Morphology, Thermal and Mechanical Properties of Polylactide Blends with Glycidyl Methacrylate-grafted Polypropylene <b>J. Su Lee</b> and Y. G. Jeong	<b>Ms. Ji Su Lee</b> , Chungnam National University, Rep. of Korea
5.	Thermally Conductive Polyimide-based Composites Films with Low Dimensional Ceramic Nanofillers <b>G.H. Hwang</b> and Y.G.Jeong	<b>Dr. Gyu Hyun Hwang</b> , Chungnam National University, Rep. of Korea
6.	Aromatic Poly(ether amide)s-derived Carbon Nanofiber Webs for Self-standing and Binder-free Supercapacitor Electrode Materials <b>Y.S. Kwon</b> and Y.G.Jeong	<b>Mr. Young Seung Kwon</b> , Chungnam National University, Rep. of Korea
7.	Preparation and characterization of carbon containing composite films on Al-Zn-Mg alloy using steam coating <b>T. Ishizaki</b> , H.Muto and Y. Nagashima	<b>Prof. Takahiro Ishizaki</b> , Shibaura Institute of Technology, Japan
8.	Synthesis and Characterization of Cu <sub>2</sub> S – TiO <sub>2</sub> Heterostructures with Enhanced Photophysical Properties. <b>S. Al Suhaibani</b> , M. Abdelnaby and M. Zeama	<b>Mr. Sulaiman Al Suhaibani</b> , King Fahad University of Petrelouem and Minerals, Saudi Arabia
9.	Impact of pH on adsorption of hydrogen on Pt in aqueous phase <b>X. Chen</b> , Y. Liu and J. A. Lercher	<b>Mr. Xi Chen</b> , Technical University of Munich, Germany
10.	Optically Mapping Temperature in the Vicinity of Gold Nanorods <b>T. Albogami</b> , K. Critchley, Z.Y Ong, and S.D Evans.	<b>Mrs.Tahani Albogami</b> , University of Leeds, UK.
11.	Structural analysis of AlInN layers deposited on Si(100) and Si(111) via reactive RF sputtering <b>M. Sun</b> , R. Blasco, S. Valdueza-Felip, F. B. Naranjo, M. de la Mata and S. I. Molina	<b>Mr. Michael Sun</b> , University of Alcala, Spain
12.	Recording Material Synthesis Images and Processing with a Script for Data Visualization <b>D. Sousa</b> , J. C. Lima and I. Ferreira	<b>Mr. David Sousa</b> , NOVA School of Science and Technology, Portugal
13.	3D-printed Bioactive Scaffolds for Bone Regeneration Bearing Carbon Dots for Bioimaging Purposes A. Saranti, A. Tiron-Stathopoulos, C. Gioti, A. Ioannou, A. Vassilakopoulou, M.A. Karakas-sides, I. Koutselas and <b>K. Dimos</b>	<b>Prof. Konstantinos Dimos</b> , University of Patras, Greece
14.	Titanium Dioxide Multiscale Model for Simulation of Bio-nano Interfaces <b>M. Ivanov</b> and A. Lyubartsev	<b>Mr. Mikhail Ivanov</b> , Stockholm University, Sweden
15.	Detecting Hepatitis B Surface Antigen Using a Novel Polycrystalline Silicon Nanowire Biosensor <b>C-C. Wu</b> , M-P. Lu, Y-F. Chang, M-R. Wang, P-T. Kuo and T-Y. Hsu	<b>Prof. Chi-Chang Wu</b> , Feng Chia University, Taiwan
16.	Development of Nanozyme-based Sensors for the Detection of Reactive Oxygen Species <b>M. David</b> , A. Șerban, M. Florescu and C. Bala	<b>Dr. Melinda David</b> , Transilvania University of Brasov, Romania
17.	Detection of non-conductive nanoparticles using Nanoparticles Imprinted Matrices (NAIMs) <b>L. Dery</b> and D. Mandler	<b>Mrs. Linoy Dery</b> , Hebrew University, Israel
18.	Modification of Magnetite Nanoparticles with Triazine-Based Dendrons and their Application as Drug-Transporting Systems <b>M. Pawlaczyk</b> and G. Schroeder	<b>Mr. Mateusz Pawlaczyk</b> , Adam Mickiewicz University in Poznań, Poland

19.	Enhancing long-term photostability of BiVO <sub>4</sub> /CdS photoanodes <b>H. Kmentova</b> , R. Yalavarthi, A. Naldoni and S. Kment	<b>Dr. Hana Kmentova</b> , Palacky University, <b>Czech Republic</b>
20.	Development of an AFM-based technique for extended write/erase endurance measurements of memristive cells V.H. Mai, V.S. Nguyen, P. Auban Senzier, C. Pasquier, ... and <b>O. Schneegans</b>	<b>Dr. Olivier Schneegans</b> , GeePs Laboratory, <b>France</b>
21.	Structural and dielectric properties of CoFe <sub>2</sub> O <sub>4</sub> /LiNbO <sub>3</sub> Bilayers <b>J. P. Oliveira</b> , B. Silva, T. Rebelo, L. Francis, J.A. Mendes and B.G. Almeida	<b>Mr. João Oliveira</b> , Univ. Minho, <b>Portugal</b>
22.	Flexible and Large-area Electrochromic Films based on PEDOT:PSS for Smart Windows <b>C. Park</b> , Y. Kim, S. Bae, M. Do, J. Min Kim and J.H.Kim	<b>Mr. Chanil Park</b> , Yonsei University, <b>Rep. of Korea</b>
23.	Overheating on aluminum metafilms by non-radiative decay of surface plasmons <b>D. E. Martínez-Lara</b> , R. González-Campuzano, J. L. Benítez and D. Mendoza	<b>Mr. David E. Martínez-Lara</b> , UNAM, <b>México</b> .
24.	Numerical Study of Graphene Oxide Capacitive Humidity Sensor with Novel Etching Configuration <b>S. Al Hashmi</b> , M. Mohammedture, J.-Y. Lu, M. Gutierrez, M. Al Tenejji	<b>Ms. Shamma Alhashmi</b> , Technology Innovation Institute- Abu Dhabi, <b>UAE</b>
25.	Design of visible-light photocatalysts for NO <sub>x</sub> removal based on LDH/BiOX nanolayered heterojunction <b>M.A. Oliva</b> , J. Ortiz Bustos, M. Cruz-Yusta, I. Pavlovic and Luis Sánchez	<b>Ms. Oliva M<sup>a</sup> Angeles</b> , Cordoba University, <b>Spain</b>
26.	Hydrotalcite-like material for a double environmental remediation <b>J. Fragoso</b> , A. Nehdi, M. Cruz-Yusta, N. Frini-Srasra, I. Pavlovic and L. Sanchez.	<b>Mr. Javier Fragoso</b> , Cordoba University, <b>Spain</b>
27.	Challenges on the investigation of Fluorecent Probes for Heavy Metal-based Nanomaterials <b>J. Sanmartín-Matalobos</b> , P. Bermejo-Barrera, Y. Alves-Iglesias, M. Aboal-Somoza, A. M. García-Deibe and M. Fondo	<b>Prof. Jesus Sanmartín-Matalobos</b> , Santiago de Compostela University, <b>Spain</b>
28.	Metallic Nanocatalysts for Glycerol Valorization <b>I. Terekhina</b> , J. White, A. Cornell and M. Johnsson	<b>Mrs. Irina Terekhina</b> , Stockholm University, <b>Sweden</b>
29.	A Comprehensive In Vivo Study Using Drosophila melanogaster: New Insights into Mechanisms and Biological Effects of Permethrin Nanopesticides <b>E. Demir</b> , S. Kansız, M. Dogan, O. Topel, G. Akkoyunlu and M.Y. Kandur	<b>Prof. Esref Demir</b> , Antalya Bilim University, <b>Turkey</b>
30.	Interferometric Reflectance Imaging Sensor (IRIS) applied to the real-time binding detection of mycotoxin fumonisin B1 <b>E. Chiodi</b> , F. Ekiz-Kanik, M. Geib, A.M. Marn, J. Rejman, D. AnKrapp and M.S. Unlu	<b>Ms. Elisa Chiodi</b> , Boston University, <b>USA</b>
31.	Contribution to the knowledge of the Family Elateridae, Coleoptera from the Kingdom of Saudi Arabia <b>A. Al-Khalaf</b>	<b>Dr. Areej Al-Khalaf</b> , Princess Nourah bint Abdulrahman University, <b>Saudi Arabia</b>
32.	Multifunctional Nanocoatings to Overcome Contact Lenses Associated Conditions and Discomforts <b>S.A. Khan</b> and C.S. Lee	<b>Mr. Shakeel Khan</b> , City University of Hong Kong, <b>Hong Kong</b>
33.	Studies on the possibility of using modified titanium oxide as a poten-tial drug carrier <b>O. Długosz</b> , J. Pulit-Prociak and M. Banach	<b>Dr. Olga Długosz</b> , Cracow University of Technology, <b>Poland</b>
34.	Efficient photodegradation of dye-polluted water by a high-flow rate functionalized microreactor <b>N. Martin</b> , V. Lacour, C. Perrault, E. Roy and Y. Leprince-Wang	<b>Dr. Nathan Martin</b> , Université Paris-Est-Marne-la-Vallée, <b>France</b>
35.	Supercritical Fluid Extraction and Pressurized Liquid Extraction Processes Applied to EPA-rich Polar Lipid Recovery from the Microalga Nannochloropsis sp. <b>MJ. Jiménez-Callejón</b> , A. Robles-Medina, MD. Macías-Sánchez, PA. González-Moreno, E. Na-varro-López, L. Esteban-Cerdán and E. Molina-Grima	<b>Prof. María José Jiménez</b> , University of Almería, <b>Spain</b>

36	Time evolution of Molecular Binding in Mechanically controlled Break-Junctions <b>M. Lokamani</b> , F. Günther, F. Kilibarda, J. Kelling, S. Gemming and A. Erbe	<b>Mr. Mani Lokamani</b> , Helmholtz-Zentrum Dresden-Rossendorf, <b>Germany</b>
37	Process for the synthesis of nanostructures based on two-dimensional materials under concentrated solar irradiation <b>T.Barbe</b> , F.Bataille, G.Flamant, E.Nadal and A.Vossier	<b>Mr. Timothee Barbe</b> , PROMES-CNRS, <b>France</b>
38	Characterization of protein-utilizing group in anaerobic fermenters <b>Z.Deng</b> , H. Spanjers and J. B. van Lier	<b>Ms. Zhe Deng</b> , Delft University of Technology, <b>The Netherlands</b>