Nanotech France 2019, NanoMetrology 2019 and NanoMatEn 2019 Conference Program

June 26, 2019		
09:00 - 17:00	**Registration**	**Registration Area**

June 26, 2019 Nanotech / Biotech Plenary session I		
Conference Room Molière		
Session's Chairs: **Prof. Jacques Jupille, Institut des Nanosciences de Paris, France** **Prof. James M Hill, University of South Australia, Australia**		
11:00 - 11:30	Geometry, construction and modelling for carbon nanotori P.Sarapat, **J.M. Hill** and D.Baowan	**Prof. James M Hill**, University of South Australia, **Australia**
11:30 - 12:00	Multidimensionality of plasmonic colors. Application to image multiplexing N. Sharma, M.Vangheluwe, A.Vermeulin and **N.Destouches**	**Prof. Nathalie Destouches**, University of Saint-Etienne, **France**
12:00- 12:30	Building on Biomimetics: novel medical applications built from nanostructured biotechnologies **D. Martin**	**Prof. Donald Martin,** Grenoble University, **France**
12:00 - 14:00	**Lunch Break**	**Foyer Debussy**

June 26, 2019 Nanotech - Session I.A: Nanomaterials Fabrication / Synthesis		
Conference Room Molière		
Session's Chairs: **Prof. Jacques Jupille, Institut des Nanosciences de Paris, France** **Prof. Xinhua Liang, Missouri University of Science and Technology, USA** **Prof. Abdelhafed Taleb, Chimie ParisTech – CNRS-Sorbonne University, France**		
14:00 - 14:30	Scalable Synthesis of Catalytic Nanoparticles by Atomic Layer Deposition **X. Liang**	**Prof. Xinhua Liang**, Missouri University of Science & Technology, **USA**
14:30 – 15:00	Self-Shaping and Self-Assembly of Nanomaterials by Evaporative Processes **M. Faustini**	**Dr. Marco Faustini**, LCMCP UMR7574, Sorbonne University-Collège de France/CNRS, **France**
15:00 - 15:15	Fabrication of two-layer nanocomposite WC/a-C coatings by a combination of pulsed arc evaporation and electro-spark deposition in vacuum **D.V. Shtansky**, K.A. Kuptsov, A.N. Sheveyko and D.A. Sidorenko	**Prof. Dmitry V. Shtansky**, National University of Science and Technology "MISIS", **Russia**
15:15 - 15:30	Facile Synthesis of Lead Iodide Nanostructures by Chemical, Hydrothermal, and Microwave Techniques and their Characterizations: A Comparative Study **S. AlFaify**, Mohd. Shkir, I.S. Yahiya, V Ganesh and B. Ul Haq	**Prof. Salem AlFaify**, King Khalid University, **Saudi Arabia.**
15:30 - 15:45	Nanostructured inks based on gold nanoparticles and polyelectrolytes N. Bridonneau, S. Zrig and **F. Carn**	**Dr. Florent Carn**, Paris-Diderot University, **France**
15:45 - 16:00	Substrate Dependent Molecular Doping of Supported Graphene by Charge Transfer Process **A. Armano**, G. Buscarino, M. Cannas. M. Gelardi, F. Giannazzo, E. Schilirò, R. Lo Nigro and S. Agnello	**Mr. Angelo Armano**, University of Palermo, **Italy**
16:00 - 16:30	**Coffee Break / Posters Session I / Exhibition**	**Salle Menand**

16:30 - 16:45	High Planarity Nitrogen-doped Graphene Synthesis from Imidazole Ring Materials using Solution Plasma Process **Y. Muta** and N. Saito	**Mr. Yukihiro Muta**, Nagoya University, **Japan**
16:45 - 17:00	A Novel Amino-rich Carbon Synthesis through Liquid Phase Plasma for Efficient Heavy Metal Ions Capture **M. Tipplook** and N. Saito	**Mr. Mongkol Tipplook**, Nagoya university, **Japan**
17:00 - 17:15	Unidirectional coupling of surface plasmonic waves on silver sur-faces with asymmetric nanogroove fabricated with glancing angle deposition technique C-C. Hou, T-L.Lin and **H-C. Kan**	**Prof. Hung-Chih Kan**, National Chun Chen University, **Taiwan**
17:15 - 17:30	Magneto-Electrodeposition of CoFe2O4 and Granular Co-Cu Nanowire Arrays **N. Labchir**, A. Hannour, D. Vincent, A. Ihlal and M. Sajieddine	**Mr. Nabil Labchir**, University of Jean Monnet, **France**
17:30 - 17:45	Surface functionalization of single crystal Molybdenum Disulfide: role of of surface defectivity **A. Ghiami**, M. Timpel, M. V. Nardi and R. Verucchi	**Mr. Amir Ghiami**, University of Parma, **Italy**
17:45 - 18:00	Electric Field Induced Template-Less Ultrafast Micro/Nano-Patterning of Polymer Thin Film P. Roy and **P. S. G. Pattader**	**Dr. Partho Gooh Pattader**, Indian institute of Technology Guwahati, **India**
18:00 - 18:15	Silver/Collagen Composite Coating on Porous Titanium Oxide by Electrochemical Deposition **S.F. Ou** and X.H. Huang	**Prof. Shih-Fu Ou**, National Kaohsiung University of Science and Technology, **Taiwan**

June 26, 2019 Nanotech - Session I.B: Nanomaterials Synthesis/Properties		
Session's Chairs: Prof. Lluis F. Marsal, University of Rovira i Virgili - Tarragona, Spain Prof. S. R Eric Yang, Korea University- Seoul, Rep. of Korea Prof. Francesca Peiró, University of Barcelona, Spain		
Conference Room 10		
14:00 - 14:30	Oxides and the challenges of the future **P. Barquinha**	**Prof Pedro Barquinha**, Universidade Nova de Lisbo, **Portugal**
14:30 - 14:45	Polymer nanocomposites based on 2D fillers: A challenge? P. A. R. Muñoz, C. L. C. Rodriguez, M. C. C. dos Santos, G. S. Medeiros, G. J. M. Pinto, R. J. E. Andrade and **G. J. M. Fechine**	**Prof. Guilhermino Fechine**, Mackenzie Presbyterian University, **Brazil**
14:45- 15:00	Construction of Functional Conical Nanopores in view of sensing applications **N. Arroyo** and F. Picaud	**Mr. Nicolas Arroyo**, Bourgogne-Franche-Comté University, **France**
15:00 - 15:15	Marrying Spin Crossover and Graphene Field Effect Transistors for Novel Sensing Devices **E.P. Van Geest**, S.A. Bonnet and G. F. Schneider	**Mr. Erik Van Geest**, Leiden University, **The Netherlands**
15:15 - 15:30	Investigation of N-doped Carbon Dots Synthesized by Solution Plasma for Detection of Nitro Aromatic Molecules **K.Kim** and N.Saito	**Mr. Kyusung Kim**, Nagoya University, **Japan**
15:30 - 15:45	On the Study of Omniphbicity of Doubly Reentrant 3D Struc-tures by Using Two-photon Polymerization **H.Y. Ni**, P.Y.Chen, P.Y.Chen, C.S. Wu, H.T. Hsu and C.C. Fu	**Mr. Hua-Yi Ni**, National Tsing Hua University, **Taiwan**
15:45 - 16:00	Preparation and characterization of PVA nanocomposites with bio-functionalized NDs **T. Remiš**, T. Kovářík, J. Kadlec, P. Bělský and R. Medlín	**Dr. Tomáš Remiš**, University Of West Bohemia, **Czech Republic**
16:00 - 16:30	**Coffee Break / Posters Session I / Exhibition**	**Salle Menand**
16:30 - 16:45	Effects of He ion irradiation on silicon carbide nanowhiskers **E. Aradi**, J. Lewis-Fell, G. Greaves, S.E. Donnelly and J.A. Hinks	**Dr. Emily Aradi**, University of Huddersfield, **United Kingdom.**
16:45 - 17:00	Similarities and differences of fractional end charges in graphene zigzag ribbon and polyacetylene **S.-R Eric Yang**	**Prof. S. R Eric Yang**, Korea University- Seoul, **Rep. of Korea**
17:00 - 17:15	The Influence of Graphene Oxide on the Epitaxial Integration of PLD-grown SrTiO3 with Si(001) substrate **Z. Jovanović**, U. Gabor, E. Tchernychova, M. Podlogar, D. Suvorov and M. Spreitzer	**Dr. Zoran Jovanovic**, Jožef Stefan Insitute, **Slovenia**
17:15 - 17:30	Electric Conductivity in Silicone-Carbon Black nanocomposites : percolation and Variable range hopping on a fractal **R. Neffati** and J. M. C. Brokken-Zijp	**Dr. Riadh Neffati**, King Khalid University, **Saudi Arabia**
17:30 - 17:45	Exploring the densification behavior of iron powder admixed with nanopowder and nanographite **S.K. Manchili,** J.Wendel, E.Hryha and L.Nyborg	**Ms. Swathi K. Manchili**, Chalmers University of Technology,**Sweden**
17:45 – 18:00	Investigation of Vertically-Aligned Multi-Walled Carbon Nanotubes Bundles Mutual Coupling **L.Beccacece**, S. Xavier, C.Tripon-Canseliet and Y. Oussar	**Mr. Lorenzo Beccacece**, Thales Research and Technology, **France**
18:00-18:15	Unprecedented 1D Double Wires and 2D Mobile grids: Co/Bipyridine coordination networks at the solid/liquid interface **X. Sun**, X. Yao, F. Lafolet, G. Lemercier and J. C. Lacroix	**Dr. Xiaonan Sun,** Paris Diderot University, **France**
18:15-18:30	Effect of carbon nanotubes and seawater ageing on interlaminar fracture toughness of glass fiber/epoxy composites **C. Rubio-González** and J.A. Rodríguez-González	**Dr. Carlos Rubio González**, CIDESI- Center for Engineering and Industrial Development, **Mexico.**

June 26, 2019 NanoMetrology - Session I.C: Nanomaterials characterization/Modelling		
Conference Room 11		
Session's Chairs: **Prof.Natalie Thamwattana, University of Newcastle, Australia** **Prof. James M Hill, University of South Australia, Australia** **Prof. Ursel Bangert, University of Limerick, Ireland**		
14:00 - 14:30	From the Atomic Structure to the Optoelectronic Properties Studies of 1D and 2D Nanostructures via TEM **R. Arenal**	**Dr. Raul Arenal**, Zaragoza University, **Spain**
14:30 – 15:00	Atomic Scale Imaging and Spectroscopy: insight into single atom behaviour and collective electron motion in 1-D and 2-D materials **U. Bangert**, E. O'Connell, K. Moore, E. Courtney, E. T. Adegoke, M. Conroy, Q. Ramasse, D. Kepatsoglou, H. Hofsäss, J. Amani, S.-S. Tu and B. Kardynal	**Prof. Ursel Bangert**, University of Limerick, **Ireland**
15:00 - 15:30	Dynamic Contact Behaviours between Crystalline Nanoparticles **W. F. Sun** and P. W. Chen	**Prof. Weifu Sun**, Beijing Institute of Technology, **China**
15 :30 - 16:00	Seeing Small: Understanding Catalyst Nanoparticles in Fuel Cells by Advanced Electron Microscopy **P.J.Ferreira**	**Prof. Paulo J Ferreira**, International Iberian Nanotechnology Laboratory (INL), **Portugal**
16:00 - 16:30	**Coffee Break / Posters Session I / Exhibition**	**Salle Menand**
16:30 - 17:00	Modelling Graphene Wrinkles Formation on Metal Substrate in CVD **N. Thamwattana**, B. Cox and T. Dyer	**Prof. Ngamta Thamwattana**, Uni. of Newcastle, **Australia**
17:00 - 17:15	Characterization of nano-TiO2 in commercial sunscreens via In-verse Supercritical Fluid Extraction and Miniaturized Asymmet-rical Flow Field-Flow Fractionation **G. Heinzmann,** F. Meier, D. Müller, S. Cattaneo, T. de Vries, M. Portugal-Cohen, L. Calzolai and T. Klein1	**Dr. Gerhard Heinzmann**, Postnova Analytics GmbH, **Germany**
17:15 - 17:30	Impedance Standards for Scanning Microwave Microscopy **T. Le Quang**, D. Vasyukov, J. Hoffmann, A. Buchter and M. Zeier	**Dr. Toai Le Quang**, Federal Institute of Metrology **Switzerland**
17:30 - 17:45	Quantitative Nanomechanical Measurements of Carbon Nano-tube-Metal Interfaces C. Yi, F. Gou, C. Dmuchowski, X. Chen and **C. Ke**	**Prof. Changhong Ke**, State University of New York at Binghamton, **USA**
17:45 - 18:00	Nanomechanical Properties of embedded silica beads: nanoindentation versus PFT-QNM **R. Coq Germanicus**, D. Mercier, F. Mickaël , P. Descamps and Ph. Leclère	**Dr. Rosine Coq Germanicus**, Normandie University, **France**.
18:00 - 18:15	Spectroscopic studies of the stability of size-selected polyynes synthesized by Pulsed Laser Ablation in water **S.Peggiani**, A. Facibeni, A. Milani, A. Lucotti, V. Russo, A. Li Bassi and C.S. Casari	**Ms. Sonia Peggiani**, Polytechnic University of Milan, **Italy**
18:15 - 18:30	Development and application of a multifunctional nanoindenter: coupling to electrical measurements and integration in-situ in a Scanning Electron Microscope S. Comby-Dassonneville, **F. Volpi,** C. Boujrouf, L. Maniguet, D. Pellerin and M. Verdier	**Dr. Fabien Volpi**, Grenoble Alpes University, **France**
18:30 - 18:45	Synthesis, Characterization and Thermal Conductivity Modeling of Nanofluids for Advanced Heat Transfer Applications **M.M. Ghosh** and Sujoy Das	**Dr. Madan. M.Ghosh**, National Institute of Technology, **India**

June 26, 2019 Nanotech - Session I.D - Nanomaterials properties		
Session's Chairs: Prof. Nathalie Destouches, University of Saint-Etienne, France Prof. Changhyun Roh, Korea Atomic Energy Research Institute, Rep. of Korea		
Conference Room 12		
14:00 - 14:30	Advanced optical characterisation for modern nano-structured functional materials **J.A. Zapien**	**Dr. Juan Antonio Zapien**, City Uniiversity of Hong Kong, **Hong Kong**
14:30 - 14:45	Detection and characterization of nanoparticles via stimuli-induced heating **C. Geers**, L. Steinmetz, A. Milosevic, M. Bonmarin, B. Rothen-Rutishauser and A. Petri-Fink	**Dr. Christoph Geers**, University of Fribourg, **Switzerland**
14:45-15:00	Comparison of the oxygen barrier properties of nano ZnO coated PET and PHBHHx packaging films via ultrasonic spray coating **M. Abbas**, M. Buntinx, W. Deferme, N. Reddy and R. Peeters	**Mr. Mohsin Abbas**, Hasselt University, **Belgium**
15:00 - 15:15	Resistivity of Nanometer Thick Manganite Films Under Elastic Strain G.A.Ovsyannikov, T.A. Shaikhulov, V.A.Shakhunov, A.A. Klimov, V.L. Preobrazhensky, **N. Tiercelin** and P.Pernod	**Dr. Nicolas Tiercelin**, Univ. Lille/ Univ. Valenciennes, **France**
15:15 - 15:30	AuNPs-supported magnetite nanoparticles: a composite material for catalysis and energy storage B. Ballarin, M.C.Cassani, I. Ragazzini, C. Parise, D. Nanni, N. Sangiorgi, **D. Rinaldi**, L. Montalto and P. Mengucci	**Dr. Daniele Rinaldi**, Marche Polytechnic University, **Italy**
15:30 - 15:45	Electromagnetic Shielding Effectiveness and Dissipation of Elec-trostatic Discharge of PC/ABS Filled with Nano Carbon Black **W. Sriseubsai** and A. Tippayakraisorn	**Dr. Wipoo Sriseubsai**, King Mongkut's Institute of Technology Ladkrabang, **Thailand.**
15:45 - 16:00	Role of Defects in the Sensing Mechanism of Single-Wall Carbon Nanotube Field-Effect Transistors **A. Hankins** and M. Paranajape	**Mr. Andrew Hankins**, Georgetown University, **USA**
16:00 - 16:30	**Coffee Break / Posters Session I / Exhibition**	**Salle Menand**
16:30 - 16:45	YF3:Yb3+, Er3+ luminophore as a potential new sensor of high pressure and high temperature **S. Goderski**, P. Woźny, M. Runowski V. Lavín and S. Lis	**Mr. Szymon Goderski**, Adam Mickiewicz University in Poznań, **Poland**
16:45 - 17:00	Multifunctional nanomodifiers of cellulose fibers based on core/shell type structure doped with chosen Ln3+ ions **M. Skwierczyńska**, M. Runowski, S. Goderski, P. Kulpiński and S. Lis	**Ms. Małgorzata Skwierczyńska**, Adam Mickiewicz University in Poznan, **Poland**
17:00 - 17:15	Mechanical Behaviors of Ti3C2Tx Paper **K. Liao** and S. H. Luo	**Prof. Kin Liao**, Khalifa University of Science and Technology, **United Arab Emirates**
17:15 - 17:30	Mechanical properties and dislocation nucleation in nanoparticles with blunt edges **J. Amodeo** and K. Lizoul	**Dr. Jonathan Amodeo**, INSA-Lyon / University of Lyon, **France**
17:30 - 18:00	Effective properties of nanoparticle clusters in resonant regimes **C. Blanchard** and D. De Sousa Meneses	**Dr. Cédric Blanchard**, CNRS, CEMHTI UPR3079-Orléans University, **France**
18:00 - 18:15	Cavitation Growth Dynamics of Pinned Surface Nanobubbles **D. Dockar**, M. K. Borg and J. M. Reese	**Mr. Duncan Dockar**, University of Edinburgh, **UK**
18:15 - 18:30	Optical properties of the polyvinyl chloride / graphene oxide com-posites **M. Baibarac**, M. Stroe, L. Stangescu, M. Daescu, E. Matei, L. C. Cotet and L. Baia	**Dr. Mihaela Baibarac**, National Institute of Materials Physics, **Romania**

June 27, 2019 Nanotech / Biotech Joint Plenary session II		
Conference Room Molière		
Session's Chairs: **Prof. Marylène Viana, University of Limoges, France** **Prof. Tomasz Panczyk, Jerzy Haber Institute of Catalysis and Surface Chemistry, Poland** **Dr . Laurent Cognet, CNRS/ LP2N - Institut d'Optique, University of Bordeaux, France**		
09:00 - 09:30	Paradigms for the Interaction of Nanoscale Objects with Living Organisms **K.Dawson**	**Prof. Kenneth A. Dawson**, University College Dublin, **Ireland**
09:30 - 10:00	Safety testing of manufactured nanomaterials **P.Kearns**	**Dr. Peter Kearns**, OECD Environment, Health and Safety Division, **France**
10:00 - 10:30	Growth inhibition of Staphylococcus Aureus (Staph) and Escherichia coli (E. coli) by a combined treatment of ZnO nanoparticles and femtosecond laser light C. Alvarez, A. Hernandez, N. Cuando and **G. Aguilar**	**Prof. Guillermo Aguilar**, University of California Riverside, **USA**
10:30 - 11:00	**Coffee Break / Posters Session II / Exhibition**	**Salle Menand**
11:00 - 11:30	Strategies of biological similarity to ensure safe use of conventional + novel nanomaterials **W. Wohlleben**	**Dr. Wendel Wohlleben**, BASF SE, **Germany**
11:30 - 12:00	Nanocrystals for Medicinal Applications **L. Mondragón**, E. Casals, L. Russo, A. García-Sanz, J. Piella, I. Abasolo, N. Bastús and V. Puntes	**Dr. Laura Mondragón Martínez**, Catalan Institute of Nanoscience and Nanotechnology, **Spain**
12:30 - 14:00	**Lunch Break/ Posters Session II/ Exhibition**	**Foyer Debussy**

June 27, 2019, 13:45 - 13:55 – at the registration desk

Conference Group Photo

All conference participants are invited to be present for the Conference Group Photo

June 27, 2019 Nanotech / Biotech - Session II.A: Nanotechnology for life science		
Conference Room Molière		
Session's Chairs: **Prof. Chunlei Wang, Florida International University, USA** **Prof. Soam Prakash, Deemed University- Agra, India** **Prof. Martin Guthold, Wake Forest University, USA**		
14:00 - 14:30	Single-molecule Protein Analysis Using Nanopores **X.Huang**, W.Zhang and S.Liang	**Prof. Xiaohua Huang**, University of California, **USA**
14:30 - 15:00	Future of nanoparticles research in mosquito control with lasers and consciousness **S. Prakash**	**Prof. Soam Prakash**, Deemed University- Agra, **India**
15:00 - 15:15	New surfactants in wet ball milling and an innovative embed-ding of Nanocrystals into a granulate matrix **M. Rischer**	**Dr. Matthias Rischer**, Losan Pharma GmbH, **Germany**
15:15 - 15:30	Feasibility of Ultraaccurate Nanopore DNA Sequencing **W. Zhang** and X. Huang	**Mr. Wenxu Zhang**, University of California, **USA**
15:30 - 15:45	The mechanical properties of electrospun fibrinogen,blended fi-brinogen:PCL and fibrinogen:collagen nanofibers **M. Guthold**, C. C. Helms, S. R. Baker, J. Sigley, E. Voyles, S. Banerjee, J. Sharpe, Z. Zhang, J. Diaz-Silveira and K. Bonin	**Prof. Martin Guthold**, Wake Forest University, **USA**
15:45 - 16:00	Charged polysaccharide multilayers as protein-repellent coatings for medical implant materials **M. Bračič**, T.Mohan1,R.Kargl and K. Stana-Kleinschek	**Dr. Matej Bracic**, University of Maribor, **Slovenia.**
16:00 - 16:30	**Coffee Break / Posters Session II / Exhibition**	**Salle Menand**

16:30 - 16:45	Graphene-Based Coatings for Inhibiting Bacterial Growth in Hospital Environment **I. Bellagamba**, H.C. Bidsorkhi,E. Bruni, D. Cavallini, M. Saccucci and A. Polimeni, D. Uccelletti and M.S. Sarto	**Ms. Irene Bellagamba**, University of Rome La Sapienza, **Italy**
16:45 - 17:00	Interaction of Telomeric DNA i-motif with Carbon Nanotubes. A Molecular Dynamics Analysis of the Structure and Stability **T. Panczyk**, P. Wolski and P. Wojton	**Prof. Tomasz Panczyk**, Jerzy Haber Institute of Catalysis and Surface Chemistry, **Poland**

June 27, 2019 **Nanotech / Biotech - Session II.B: Nanotechnology for drug and gene delivery**		
Conference Room 10		
Session's Chairs: **Dr. Laura M.Martinez, Catalan Institute of Nanoscience and Nanotechnology, Spain** **Prof. Piersandro Pallavicini, University of Pavia, Italy**		
14:00 - 14:30	Incorporation in Titanate nanotubes as a way to improve compression properties of active pharmaceutical ingredients B. Sipos, K. Pintye-Hódi , G. Regdon Jr., Z. Kónya, **M. Viana** and T. Sovány	**Prof. Marylène Viana**, University of Limoges, **France**
14:30 - 15:00	Nanoinks for photothermally responsive inkjet-printed patterns: from hyperthermia and drug release to encrypted writing **P.Pallavicini**, L. De Vita, M. Borzenkov, G. Chirico, P. Ihalainen and J. Sarfraz	**Prof. Piersandro Pallavicini**, University of Pavia, **Italy**
15:00 - 15 :30	Graphene quantum dots as drug delivery systems for cancer therapy R. Romeo, D. Iannazzo, A. Pistone, C. Celesti, S. V. Giofré, G. Visalli and A. Di Pietro	**Prof. Roberto Romeo**, University of Messina, **Italy**
15:30 - 15:45	Protein-nanoparticle interactions: effect of surface functionalization and pH of the medium **B. Meesaragandla**, I. Garcia, L.M. Liz-Marzán and M. Delcea	**Dr. Brahmaiah Meesaragandla**, University of Greifswald, **Germany**
15:45 - 16:00	Protein-nanoparticles interactions by microfluidic: A novel tool for biomedical applications N. Orellana, S. Torres, S. Palma, M. L. Cordero? M. Kogan and **N. Hassan**	**Dr. Natalia Hassan**, Metropolitan Technology University, **Chile**
16:00-16:30	**Coffee Break / Posters Session II / Exhibition**	**Salle Menand**
16:30 - 16:45	Targeting of Nano-Carriers in Atherosclerotic Arterial Bifurcation Sites **M. Khoury**, M. Epshtein, H. Zukerman and N. Korin	**Mrs. Maria Khoury**, Technion - IIT, **Israel**
16:45 - 17:00	Buccal permeating lipid-core micelles loaded on mucoadhesive films as a novel drug delivery system for biologic drugs **W-H. Chou**, A. Galaz, M.O. Jara and J.O. Morales	**Mr. Wai-Houng Chou**, University of Chile, **Chile**
17:00 - 17:15	Hybrid nanostructure lipid capsules: A promising nano-vehicles to improve anticancer activity of curcumin **S.K.Yadava**, V. Remya and J.Giri	**Mr. Sunil Kumar Yadava** Indian Institute of Technology-Hyderabad, **India**
17:15 - 17:30	A Novel Model based on Sphere-shaped Coulomb Explosion for the Study of Nanoparticles of Gold in the Treatment of Brain Tumor **Z. Hasan** , S. Abbas, M.A. Khan,K. Iqbal, Z. Ahmad and M.M. Bukhari	**Mr. Zahid Hasan,** National College of Business Administration and Economics, **Pakistan**

June 27, 2019 Nanotech / Biotech - Session II.C: Nanomedecine- Bioimaging/ Diagnostics		
Conference Room 12		
Session's Chairs: **Prof. Ricardas Rotomskis, Vilnius university, Lithuania** **Prof. Makarand Paranjape, Georgetown University, Washington, USA** **Dr. Imran Avci, VU University of Amsterdam, The Netherlands**		
14:00 - 14:30	Nanoscale exploration of live brain tissue by single nanoparticle tracking and super-resolution imaging **L. Cognet**	**Dr . Laurent Cognet**, CNRS/ LP2N - Institut d'Optique, University of Bordeaux, **France**
14:30 - 15:00	Nanoparticles for multimodal imaging and phototherapy of cancer: towards theranostics **R. Rotomskis**	**Prof. Ricardas Rotomskis,** Vilnius university**, Lithuania**
15:00 - 15:30	Integrated optics devices in spectroscopy, biosensing and medical applications **I. Avci**	**Dr. Imran Avci**, VU University of Amsterdam, **The Netherlands**
15:30 - 15:45	Tracking stem cells and macrophages with gold and iron oxide nanoparticles–the choice of the best suited particle **X. Sun**, N. Feliu, W.J. Parak	**Mr. Xing Sun**, University of Hamburg, **Hamburg**
15:45 - 16:00	Mesoporous Nickel Vanadate-Graphene Nanocomposite Integrated Microfluidic Biochip for Biosensing Application **N.Singh**, P. Rai, A. Sharma, B. D. Malhotra and R. John	**Mr. Nawab Singh**, Indian Institute of Technology-Hyderabad, **India**.
16:00 - 16:30	**Coffee Break / Posters Session II / Exhibition**	**Salle Menand**
16:30 - 16:45	Enhanced Coupling Effect of Gold Nanoislands and Gold Nano-particles for Optical Biochemical Sensing Y.K. Chan and **C.M.L. Wu**	**Prof. Chi-Man Wu,** City University of Hong Kong, **Hong Kong**
16:45 - 17:00	Construction of Functional Conical Nanopores in view of sensing applications **N. Arroyo** and F. Picaud	**Mr. Nicolas Arroyo**, Bourgogne-Franche-Comté University, **France**
17:00 - 17:15	Novel biosensing assay based on the integration of low refractive index resonant waveguide grating and upconcersion nanopartices Y.-L. Gao, J.-H. Lyu, D.-T. Vu, M. W.-Y. Chan, L.-K. Chau, H.-C. Kan, J.-Y. Lin and **C.-C. Hsu**	**Prof. Chia Chen Hsu**, National Chung Cheng University, **Taiwan**
17:15 - 17:30	High-sensitivity wide-field fluorescent microscopy based on up-conversion nanoparticles and resonant waveguide grating T.-Y. Liu, J.-H. Lyu, M. W.-Y. Chan, C.-C. Hsu, H.-C. Kan and **J.-Y. Lin**	**Prof. Jiunn-Yuan Lin**, National Chung Cheng University, **Taiwan**
17:30 - 17:45	High-sensitivity detection of mesothelin by surface plasmon resonance **E.F.Macedo** and D. B. Tada	**Mr. Erenildo F.Macedo**, Federal University of São Paulo, **Brazil**
17:45 - 18:00	Fast Detection of Bacterial Contamination in Fresh Produce Using Surface Modified Magnetic Nanoparticles and PCR **H.M.E. Azzazy**, F. Farouk, S. Essam, A. Abdel Moteleb, R. El Shimy and W. Fritzsche	**Prof. Hassan Azzazy**, American University in Cairo, **Egypt**

June 27, 2019 NanoMatEn - Session II.D: Nanomaterials for Energy / Nanoelectronics		
Conference Room 5		
Session's Chairs: **Dr. Raul Arenal, Zaragoza University, Spain** **Prof Sascha Sadewasser,International Iberian Nanotechnology Laboratory, Portugal** **Prof. Iren Kuznetsova, Kotelnikov Institute of Radio Engineering and Electronics, Russia**		
09:00 - 09:30	Inversion parameter in spinel Fe3O4/Mn3O4 core-shell nanoparti-cles at atomic resolution P. Torruella, A. Ruiz-Caridad, M. Walls, A. G. Roca, A. López-Ortega, J. Blanco-Portals, L. López-Conesa, J. Nogués, S. Estradé and **F. Peiró**	**Prof. Francesca Peiró**, University of Barcelona, **Spain**
09:30 - 10:00	Progress in nanoporous anodic alumina-based optical biosensors **L. F. Marsal**	**Prof. Lluis F. Marsal**, University of Rovira i Virgili-Tarragona, **Spain**
10:00 - 10:30	Advanced Emerging Materials Applied in Next Generation Nano Electronic Devices **H-L. Chang**	**Dr. Hui-Lin Chang**, Micron Technology, **USA**
10:30 - 11:00	**Coffee Break / Posters Session II / Exhibition**	**Salle Menand**
11:00 - 11:30	High Temperature Optical Metamaterials **M. Eich**, M. Chirumamilla, P. Dyachenko, S. Lang, G. Shang, Q.Y. Nguyen, K. Knopp, G. Vaidhyanathan, S. Molesky, H. Renner, A. Yu Petrov, Z. Jacob, M. Störmer, T. Krekeler , M. Ritter and G. Schneider	**Prof. Manfred Eich**, Hamburg University of Technology, **Germany**
11:30 - 12:00	Plasma Engineered Nanocomposite and Amorphous Films and Coatings for Energy Industries **R.Wei**	**Prof. Ronghua Wei**, Southwest Research Institute- San Antonio, Texas, **USA**
12:00 - 12:15	Effect of UV illumination on Surface Adsorbents in MoTe2 Channel for Gas Sensing Applications **K. DiCamillo**, A. Rani, S. Krylyuk, A.V. Davydov, M.E. Zaghloul and M. Paranjape	**Prof. Makarand Paranjape**, Georgetown University, Washington, **USA**.
12:00 - 14:00	**Lunch Break**	**Foyer Debussy**
Session's Chairs: **Prof. Ronghua Wei, Southwest Research Institute- San Antonio, Texas, USA** **Prof. Paulo J Ferreira, International Iberian Nanotechnology Laboratory (INL), Portugal** **Prof. Weifu Sun, Beijing Institute of Technology, China**		
14:00 - 14:30	Plasmonic nano-gaps for light matter interactions on the nanoscale A.R. L. Marshall, A.O. Hamza, A.P. Edwards, F.N. Viscomi, J.E. Proctor, J.Gierschner, J-S. G. Bouillard and **A.M. Adawi**	**Dr. Ali Adawi**, University of Hull, **United Kingdom**
14:30 - 14:45	Tuning Fermi level pinning at metal/solid 2D/ Si heterostructure **J. Courtin**, S. Le Gall, P. Chrétien, A. Moréac, S. Tricot, G. Delahye, B. Lépine, S. Ababou-Girard, S. Guézo, F. Solal, P. Turban, P. Schieffer, J.-C Le Breton,	**Mr. Jules Courtin**, Rennes 1 University, **France**
14:45 - 15:00	Influence of Plate Acoustic Waves on Electronic Transport in Low Dimensional Nanostructures V. Kolesov, **I. Kuznetsova**, E. Soldatov, A. Melnikov and S. Dagesyan	**Prof. Iren Kuznetsova,** Kotelnikov Institute of Radio Engineering and Electronics of RAS, **Russia**
15:00 - 15:15	Towards the Optimized Spintronic Response of Sn-Doped IrO2 Thin Films **E. Arias-Egido**, M. A. Laguna-Marco, C. Piquer, R. Boada and S. Díaz-Moreno	**Mr. Eduardo Arias-Egido**, Instituto de Ciencia de Materiales de Aragón (ICMA), **Spain**
15:15-15:30	High concentration bolometric system with single-walled carbon nanotubes (SWCNT) absorber M.Andalis, M.A. Madarang, Y.Kuwahara, G.Tolentino, R.A.Paragas, A.H. Triol, M. Ilasin, T. Saito and **I.J.Agulo**	**Dr. Ian Jasper Agulo**, University of the Philippines Baguio, **Philippines**

15;30 - 15:45	Theoretical study of the electronic flow between two metals through an insulator and under illumination: Applications at the nanoscales **M. Grosman**, D. Duche, C. Reynaud, F. Michelini, JJ. Simon, and L. Escoubas	**Mr. Marc Grosman**, Aix Marseille University, **France**
15:45-16:00	Use of nanocarbons to provide ultra-fast charging of electric vehicles at 350kW to 1MW, so that drivers have the same experience of speed of recharge, cost and range as gasoline or diesel vehicles. **S. Voller**	**Mr. Stephen Voller,** ZapGo Ltd-Oxford, **UK**
16:00 - 16:30	**Coffee Break / Posters Session II / Exhibition**	**Salle Menand**
16:30 - 16:45	A high output flexible triboelectric nanogenerator based on poly-dimethylsiloxane/three-dimensional bilayer graphene composites **D. Joon Kang**	**Prof. Dae Joon Kang**, Sungkyunkwan University, **Rep. of Korea**
16:45 - 17:00	Control of thermal sensitivity stability of a hybrid magnetoresistive sensor using Zeeman energy **M. Mahfoud**,Q. Hung Tran, E.H. Belarbi, AA. Boukra,4 CG. Kim and F.Terki	**Mr. Mohamed Mahfoud**, University of Montpellier, **France**
17:00 - 17:15	Zinc-tin oxide diodes with distinct resistive switching modes: from RRAM to neuromorphic applications **J. Martins**, N. Casa Branca, J. Deuermeier, J. Goes, E.Fortunato, R. Martins, A. Kiazadeh and P. Barquinha	**Mr. Jorge Martins**, NOVA University Lisbon/ CEMOP/UNINOVA, **Portugal**
17:5 - 17:30	Multifunctional Zinc Tin Oxide Nanostructures: From Photocatalysis to Electronic Applications **A.Rovisco**, J. Martins, A.d.Santos, J. Neto, R. Branquinho, E.Fortunato, R. Martins and P. Barquinha	**Mrs. Ana Rovisco**, , NOVA University Lisbon/ CEMOP/UNINOVA, **Portugal**
17:30 - 17:45	The Electrical Transport Characteristics of Ag-NP/n-Si nano Schottky Diodes using Conducting Atomic Force Microscope Y. Abbas, A. Rezk, I. Saadat, A. Nayfeh and **M. Rezeq**	**Prof. Moh'd Rezeq**, Khalifa University-Abu Dhabi, **UAE**
17:45 - 18:00	Light-Trapping Modes in Lossy Plasmonic Waveguides **S.M.A. Ibrahim** and K-Y. Kim	**Mr. Syed M.A. Ibrahim**, Sejong University, **Rep. of Korea**
18:00 - 18:15	Multi-scale Defect Mechanics for Reliability of High Performance Electronic Devices in Radiation Environments **M. Paing**, H. Y. Kim and Y. E. Pak	**Mr. Min Paing**, State University of New York, **Rep. of Korea**

June 27, 2019

NanoMatEn - Session II.E: Nanotechnology for Environmental Application / Water treatment

Conference Room 9

Session's Chairs:
Prof. Yamin Leprince-Wang, Paris-Est University, France
Dr. Hui-Lin Chang, Micron Technology, USA
Dr. Lifeng Liu, International Iberian Nanotechnology Laboratory, Portugal

09:00 - 09:30	Compositional and Microstructural Engineering of Transition Metal Phosphides for Improved Electrocatalytic Performance **L. Liu** and J. Xu	**Dr. Lifeng Liu,** International Iberian Nanotechnology Laboratory, **Portugal**
09:30 -10:00	Recent advances of nanocomposites for radioactive contaminants removal from nuclear wastes and beyond **C.Roh**	**Prof. Changhyun Roh**, Korea Atomic Energy Research Institute, **Rep. of Korea**
10:00 -10:30	Photocatalytic Activity of Nanostructured ZnO for Water Purification **Y. Leprince-Wang**, N. Martin, M. Le Pivert and M. Capochichi-Gnambodoe	**Prof. Yamin Leprince-Wang**, Paris-Est University, **France**
10:30 - 11:00	**Coffee Break/ Posters Session II / Exhibition**	**Salle Menand**

11:00 - 11:15	Strategy of functionalization for micropollutants electrochemical detection I. Sadriu, E. Mathieu-Scheers, C. Grillot, S. Bouden, J. Nicolle, F.I. Podvorica, C. Berho, V. Bertagna and **C.Vautrin-Ul**	**Prof. Christine Vautrin-Ul**, University of Orleans, **France**
11:15 -11:30	Carbon dots' photoluminescence technique to detect total Chromium in industrial wastewater R. Sinha and **T. K. Mandal**	**Prof. Tapas Kumar Mandal**, Indian Institute of Technology Guwahati, **India**
11:30 -11:45	Preparation of a Floating Photocatalyst-adsorbent Composite via TiO2 Deposition on Silicalite-1 Coated-Hollow Glass Micro-spheres **S. Nijpanich**, T. Hagio, Y. Kamimoto and R. Ichino	**Ms. Supinya Nijpanich,** Nagoya University, **Japan**
11:45-12:00	Corrugated Graphene Channels for Seawater Desalination via Capacitive Deionization **M.Dahanayaka**, B. Liu, Z. Hu, Z. Chen, A. Wing-Keung Law and K. Zhou	**Mrs. Madhavi Dahanayaka**, Nanyang Technological University, **Singapore**
12:00 - 14:00	**Lunch Break**	**Foyer Debussy**
Session's Chairs: **Dr. Lifeng Liu, International Iberian Nanotechnology Laboratory, Portugal** **Prof. Miikka Dal Maso, Tampere University of Technology, Finland** **Prof. Florin Udrea, Cambridge University, UK** **Prof. Christine Vautrin-Ul, University of Orleans, France**		
14:00-14:30	Smart micro and nano sensors for ambient air quality monitoring **F. Udrea**	**Prof. Florin Udrea**, Cambridge University, **UK**
14:30-14:45	Durability study of the photocatalytic efficiency of Fe and Ag-doped ZnO nanowires **N. Martin**, M. Le Pivert, M.Capo-Chichi Gnambodoe and Y. Leprince-Wang	**Mr. Nathan Martin**, Paris-Est University, **France**
14:45-15:00	Novel FeVO4/BiOCl Nanocomposite for Efficient Photocatalytic Dye Degradation and Cr(VI) Reduction Under Visible Light Irradia-tion **A.Chachvalvutikul** and S. Kaowphong	**Mr. Auttaphon Chachvalvutikul,** Chiang Mai University, **Thailand**
15:00-15:15	Enhancement of Photocatalytic Dye Degradation and Hydrogen Evolution of a Z-scheme Bi2WO6/ZnIn2S4 Composite **T.Luangwanta**, A.Chachvalvutikul and S. Khaophong	**Mr. Tawanwit Luangwanta,** Chiang Mai University, **Thailand**
15:15-15:30	Application and Characterization of Polyethylene-Blended Poly-styrene Nanofibrous Sorbents in the Removal of Crude Oil Spills **M. Alazab Alnaqbi**, A. Al Blooshi and Y.E. Greish	**Dr. Mohamed Alazab Alnaqbi,** United Arab Emirates University, **UAE**
15;30 - 15:45	Nickel-Alumina and Zinc-Alumina Aerogels: Powerful Highly Porous Adsorbents for a Broad Spectrum of Toxic Effluents M. Chaaban, J. Mallah and **H. El-Rassy**	**Prof. Houssam Rassy**, American University of Beirut, **Lebanon**
15:45-16:00	Biosynthesis of Clusters and Nanoparticles by extracellular electron transfer-capable bacteria and their application in catalysis **R. Jimenez-Sandoval**, S. Pedireddy and P. Saikaly	**Mr. Rodrigo Jose Jimenez Sandoval**, King Abdullah University of Science and Technology, **Saudi Arabia**
16:00 - 16:30	**Coffee Break / Posters Session II / Exhibition**	**Salle Menand**
16:30-16:45	Atomistic simulation of water pumping and desalination process through carbon nanotubes using Rayleigh traveling waves A. Zhuldassov, **N. Zhakiyev** and Z. Insepov	**Dr. Nurkhat Zhakiyev**, Nazarbayev University, **Kazakhstan**
16:45-17:00	Water pumping through microchannels **Z. Ramazanova**, N. Zhakiyev, K.B. Tnyshtykbayev and Z. Insepov	**Ms. Zamart Ramazanova**, Nazarbayev University, **Kazakhstan**

June 28, 2019 Nanotech/ Biotech Joint Session III.A: NanoBioApplications/ Nanosafety		
Conference Room 10		
Session's Chairs: **Dr. Ismael Díez-Pérez, King's College London, UK** **Dr. Laura M. Martínez, Catalan Institute of Nanoscience and Nanotechnology, Spain**		
09 :00-09:30	Magneto-Plasmonic Nanoparticle Based-Approaches for Cancer Treatment: Therapy and Biodegradation **A. Abou-Hassan**	**Dr. Ali Abou-Hassan**, Sorbonne University, **France**
09:30 - 10:00	Aerosol dynamics and dispersion modelling for workplace nanoparticle exposure **M. Dal Maso**, A.C. Østerskov Jensen, N. Leskinen and I.K. Koponen	**Prof. Miikka Dal Maso,** Tampere University of Technology, **Finland**
10:00 -10:30	**Coffee Break / Exhibition**	**Salle Menand**
10:30-11:00	Bio-inspired Single-Molecule Electrical Contacts **I. Díez-Pérez**, A.C. Aragones, M. Ruiz, E. Ruiz, JC. Cuevas, R. Perez, G. Vilhena and L.A. Zotti	**Dr. Ismael Díez-Pérez**, King's College London, **United Kingdom**
11:00- 11:15	Cleaning, activation and coating nanotechnologies for functional surfaces in food processing **K. Horn**, M. Fröhlich and C. Stancu	**Dr. Kerstin Horn**, INNOVENT, Jena, **Germany**
11:15- 11:30	Gadolinium-loaded liposome safety: in vitro study in human liver cells and macrophages **P.Šimečková**, F. Hubatka, J.Slavík, O.Kováč, J.Neča, P.Turánek-Knötigová … and M.Machala	**Dr. Pavlína Šimečková**, Veterinary Research Institute, **Czech Republic**
11:30-11:45	Fabrication of Layer-by-Layer Bionanocomposite Scaffold for In-vitro Skin Regeneration after Chronic Burns **F. El-Shishiny** and W. Mamdouh	**Ms. Fatma El-Shishiny**, The American University in Cairo, **Egypt**

June 28, 2019 NanoMatEn - Session III.B: Nanomaterials for Clean and Sustainable Technology		
Conference Room 12		
Session's Chairs: **Prof . Shinichi Shamoto, Japan Atomic Energy Agency, Japan** **Prof. Abdelhafed Taleb, Chimie ParisTech – CNRS-Sorbonne University, France**		
09:00 - 09:30	Nanoscaled Structure Determination of Functional Materials **S. Shamoto**	**Prof . Shinichi Shamoto**, Japan Atomic Energy Agency, **Japan**
09:30 – 10:00	Micro- and nanometer scale Cu(In,Ga)Se2 for photovoltaic devices **S. Sadewasser**	**Prof Sascha Sadewasser**, Iberian Nanotech Lab., **Portugal**
10:00 - 10:30	**Coffee Break / Exhibition**	**Salle Menand**
10:30 – 11:00	Nanomaterials: Towards New Application Opportunities in the Field of Energy **A. Taleb**	**Prof. Abdelhafed Taleb**, Chimie ParisTech, **France**
11:00 - 11:15	Perovskite Solar Cells Based on Self-assembled Monolayer of Conjugated Polyelectrolyte as Hole-Extraction Material **C-Y. Chang**, W-C. Wang, Y-F. Chen and L. Wang	**Mr.Chi-Yuan Chang**, National Taiwan University, **Taiwan.**
11:15-11:30	Nitrogen doped graphene as a filler in chitosan anion exchange membranes for ethanol fuel cell applications **M. Božič**, B. Kaker, S. Hribernik, K. Stana-Kleinschek, … and S. Jessie Lue	**Dr. Mojca Bozic**, University of Maribor, **Slovenia**
11:30 -11 :45	Analytical Solution for Predicting Electrical Power Generation in Piezoelectric Thin Film Multilayer Energy Harvesting System **A. T. Nguyen** and Y. E. Pak	**Mr. Anh Nguyen**, State University of New York, **Rep. of Korea**
11:45 - 12:00	Vanadium oxide nanosheets for flexible dendrite-free hybrid Al-Li-ion batteries with excellent cycling performance **X. Gong** and P.S.Lee	**Ms. Xuefei Gong**, Nanyang Technological University, **Singapore**

Posters Session I: June 26, 2019
Nanomaterials synthesis, characterization/Nanometrology and properties

Exhibition and Posters Hall - Salle Menand

N.	Title	Author/Affiliation/Country
1	Magnetic Abrasive Polishing of Nano Film Coated Pyrex Glass Using Acoustic Emission H-J. Kim, H-H. Lee and **S-H. Lee**	**Prof. Seoung-Hwan Lee**, Hanyang University, **Rep. of Korea**
2	Citric Acid Coated Magnetic Iron Oxide Nanoparticles (Fe3O4): Synthesis, Characterization and Applications **E.A. Moacă**, C. Farcaş, D. Coricovac, F. Loghin, C. Dehelean and C. Păcurariu	**Dr. Elena-Alina Moaca**, Polytechnical University Timisoara, **Romania**
3	High-Speed Sinter-Bonding of a Semiconductor Die by Addition of Ag Nanoparticles in 2-Micron Ag-coated Cu Particles S.Y. Kim, E.B. Choi, **J-H. Lee**	**Prof. Jong-Hyun Lee**, Seoul National University of Science and Technology, **Rep. of Korea**
4	Stuctural Development and Crystallization Kinetics of Bismuth Germanate Glass Embedded with Bi2GeO5 Crystals Prepared by the Modified Incorporation Method **S. Panyata**, P. Intawin, A. Kraipok, S. Eitssayeam, T. Tunkasiri, U. Intatha and K. Pengpat	**Mr. Surapong Panyata**, Chiang Mai University, **Thailand**
5	Transparent BST Glass ceramic Nanocomposites: Fabrication Crystallization Kinetics and Properties P. Intawin, S. Panyata, A. Kraipok, S. Eitssayeam, T. Tunkasiri, M. Kamnoy, S. Inthong and **K. Pengpat**	**Prof. Kamonpan Pengpat**, Chiang Mai University,**Thailand**
6	Mixed Monolayer Semiconductor Nanocrystals for Optimized Nanocomposites **S. Fernández de Ávila**, F. Rodriguez-Mas, J.C. Ferrer and J.L. Alonso	**Prof. Susana Fernandez de Avila**, University Miguel Hernández, **Spain**.
7	SiO2 sol-gel mask for nanopatterning J.Ruscica, S. Kolb, V. Gâté, S. Guilet, **F. Hamouda** and D.Turover	**Dr.Frédéric Hamouda**, C2N-Paris-Saclay University, **France**
8	Study Of La doped ZnS Thin Films Properties synthezised by Chemical Bath Deposition Technique (CBD) in acidic medium H. Haddad, **H. Merzouk**, D. Talantikite and A. Tounsi	**Dr. Hamid Merzouk**, Abderrahmane Mira University, **Algeria**
9	Structure, Morphology, Thermal and Electrochemical Studies of Electrochemically Synthesized Polyaniline/Copper Oxide Nanocomposite for energy storage device **S P Ashokkumar**, L. Yesappa, H.Vijeth, M.Niranjana, M.Vandana M and H.Devendrappa	**Mr. SP Ashokkumar**, Mangalore University, **India**
10	Improvement of Contact Resistance Characteristics between Graphene-carbon Nanotube for Carbon Semiconductor E.Choi, Y.Cui, Y. Gao and **S.G. Pyo**	**Prof. Sung Gyu Pyo**, Chung-Ang University, **Rep. of Korea**
11	Structural, magnetic and electromagnetic wave absorption properties of La-BaM/PANI nanocomposites N. Tran, **Y. J. Choi**, M. Y. Lee, T. L. Phan and B. W. Lee	**Mr. Yeon Jun Choi**, Hankuk University of Foreign Studies, **Rep. of Korea**
12	Hydrothermally Synthesized Titanium dioxide (TiO2) Nanotubes Based Sensor for Brain Signals Extraction K.N. Santhosh and **S.K. Naveen Kumar**	**Dr. S.K. Naveen Kumar**, Mangalore University, **India**
13	ZnO:Ga nanoscintillator for X-ray induced photodynamic therapy **E. Mihóková**, L. Procházková, I.T. Pelikánová, R. Dědic and V. Čuba	**Dr. Eva Mihóková**, Czech Academy of Science, **Czech Republic**
14	Fabrication of MEMS based blackbody for calibration of infrared camera using black silicon and MWCNTs **S. Hwang**, J. Lee, T. Kim, J. Ok and J. Lee	**Ms. Seolhui Hwang**, Hanbat National University, **Rep. of Korea**
15	Bergman's spectral representation: a powerful framework for extracting the dielectric properties of nanopowders. **A. Nzie**, C. Blanchard and D. De Sousa Meneses	**Ms Alima Nzie**, Orleans University, **France**
16	Composites based on poly(2, 2'-bithiophene) and TiO2 nanoparticles: from chemical synthesis to optical properties and their applications in the leather and textile materials field **I. Smaranda**, M. Stroe, A. Radu, R. Constantin, C. Gaidau, L. Chirila and M. Baibarac	**Mr. Ion Smaranda**, National Institute of Materials Physics, **Romania**

17	Indirect to Direct Bandgap Transition in Two-dimensional SnS2 Monolayer by Nickel Doping: First-Principles Calculations **S. Batjargal** and M. Hayashi	**Dr. Batjargal Sainbileg**, National Taiwan University, **Taiwan**
18	Generation of new photo-responses in the visible domain due to morphological imperfections **A. Ben Gouider Trabelsi**, F. V. Kusmartsev, M. B. Gaifullin, D. M. Forrester, A. Kusmartseva and M. Oueslati	**Dr. Amira B.G.Trabelsi**, Princess Nourah bint Abdulrahman University, **Saudi Arabia**
19	Processing at different pressures and characterization of the ceram-ic superconducting (Bi1.6Pb0.4)Sr2Ca1Cu2Oy **I. Martínez-Ramírez**, E. Díaz-Valdéz, C. Mejía-García, T. Molina-Mil and A. M. Paniagua-Mercado	**Mr. Ismael Martínez Ramírez**, National polytechnic institute, **Mexico**.
20	Bright-Excitons Splittings in CsPbX3 (X= Cl, Br, I) Nanocrystals **R. Ben Aich**, K. Boujdaria, L. Legrand, M. Chamarro and C. Testelin	**Ms. Rim Ben Aich**, University of Carthage, **Tunisia**
21	Effect of nanoparticles of Titanium Dioxide in Technique Textiles **A .Paniagua-Mercado**, A. Mauro-Nolasco, C. García-Mejía, E. Díaz-Valdés and J. Ibarra-Báez	**Dr. Ana M. Paniagua-Mercado**, National polytechnic Insitute, **Mexico**
22	Characterization of Nanoparticles and related Metals in Tat-too Ink using Asymmetrical Flow Field-Flow Fractionation coupled with MALS and ICP-MS **G. Heinzmann**, F. Meier, R. Drexel, T. Pfaffe, E. Moldenhauer and T. Klein	**Dr. Gerhard Heinzmann**, Postnova Analytics GmbH, **Germany**
23	High sensitivity aerosol mass concentration measurements by Corona charger : PM0.1 down to pg/m3 **W-C. Gong**, C-J. Tsai, N. Jidenko and J-P. Borra	**Mr. Wen-Cheng Gong**, CNRS, CentraleSupelec, Univ. Paris-Saclay, **France**
24	Simple Sonochemical Synthesis of CuO Nanoparticles **N. Hassan**, N. Silva, Y. Quintero, S. Ramírez, I. Díaz, M. Colet and A. Garcia	**Dr. Natalia Hassan**, Metropolitan Technology University, **Chile**

Posters Session II: June 27, 2019 **NanoBioMedecine / Nanosafety**		
Exhibition and Posters Hall - Salle Menand		
1	Interaction of iron oxide nanoparticles with transferrin: effect on stability and iron uptake **U.Martens**, A. Abou-Hassan and M. Delcea	**Dr. Ulrike Martens**, University of Greifswald, **Germany**
2	Live Animal Imaging of a Labeled Chlamydia Recombinant Protein Encapsulated in PLGA Nanoparticles **V.A. Dennis**, R. Sahu and S. R. Singh	**Dr. Vida Dennis**, Alabama State University, **USA**
3	Study on phase transformation pathways of iron sulfide minerals **Y-H. Chen** and D-T. Jhan	**Prof. Yen-Hua Chen**, National Cheng Kung University, **Taiwan**
4	Membrane affinity of fluorescently labelled and drug-conjugated peptides **E. Pári**, É. Kiss, G. Gyulai, K. Horváti and Sz. Bősze	**Ms. Edit Pári**, Eötvös Loránd University, **Hungary**
5	Optical Sensing by Plasmon Resonance Effects of Gold Nanoparticles **G. Joon Lee**, M.Kang, E. H. Choi and Y. Kim	**Prof. Geon Joon Lee**, Kwangwoon University, **Rep. of Korea**
6	Improvement of photoactivity of modified-chlorin photosensitizer by its conjugation to metallic and bimetallic nanoparticles **J. A. Magalhães**, B. C. Nunes, A. U. Fernandes, D.C. Arruda, E. R. Camargo and D. B. Tada	**Ms. Jéssica Magalhães**, Federal University of São Paulo, **Brazil**
7	Target Catalyzed Toehold-mediated DNA Strand Displacement Events for Universal MicroRNA Detection **Y. Park**, C. Y. Lee, S. Kang, H. Kim, K.S. Park and H. G. Park	**Ms. Yeonkyung Park**, KAIST-Daejeon, **Rep. of Korea**
8	Target-responsive DNA polymerase activity based fluorescence aptasensor for protein detection **Y. Jung**, C. Y. Lee, K. S. Park and H. G. Park	**Ms. Yujin Jung**, KAIST-Daejeon, **Rep. of Korea**
9	Effect of Nano-Scale and Micro-Scale Zero-Valent Iron on Inferring Metabolic Pathways in Freshwater Bacteria **N. H.A. Nguyen**, R. Špánek and A. Ševců	**Dr. Nhung Nguyen**, Technical University of Liberec, **Czech Republic**
10	Food Matrices-ZnO Nanoparticle Interactions and their Effects on Biological Systems **H-R. Jin**, Y.Jin and S-J. Choi	**Ms. Hye-Rin Jin**, Seoul Women's University, **Rep of Korea**

11	Detection of Zinc Oxide Nanoparticles in Food Matrices Using Cloud Point Extraction Approch **Y-R. Jeon** and S-J. Choi	**Ms. Ye-Rin Jeon**, Seoul Women's University, **Rep of Korea**
12	Safety Evaluation of Food Additives Titanium Dioxide and its Quantitative Analysis in Food Matrices **J-S. Hwang** and S-J. Choi	**Ms. Ji-Soo Hwang**, Seoul Women's University, **Rep. of Korea**
13	Size Distribution, Cytotoxicity of Food Additive Silicon Dioxide and Establishment of their Quantitative Analytical Methods in Commercial Food Products **Y-H. Kim** and S-J. Choi	**Ms. Ye-Hyun Kim**, Seoul Women's University, **Rep. of Korea**
14	The effect of novel silver alloys nanoparticles on soil bacteria **K. Hrnčířová**, N. A.H. Nguyen and A. Ševců	**Mrs. Kateřina Hrnčířová**, Technical University of Liberec, **Czech Republic**
15	Analysis of oxidative stress biomarkers for estimation of nZVI ecotoxicity toward various organisms J. Semerad, M.Moeder, J. Filip, M. Pivokonsky and **T. Cajthaml**	**Prof. Tomas Cajthaml**, Institute of Microbiology CAS, **Czech Republic**
16	Effect of gold nanoparticles on virus infection in a respiratory cell model **M. Marchetti**, B. De Berardis and F. Superti	**Dr. Magda Marchetti**, National Centre for Innovative Technologies in Public Health, **Italy**
17	Characterization of nano scale zero valent iron (nZVI) in different aqueous media **C.S.Y.Yeap**, N.H.A. Nguyen and A. Sevcu	**Ms. Cheryl S.Y. Yeap**. Technical University of Liberec, **Czech Republic**
18	Biodegradable and Biocompatible Polymeric Nanoparticles from fruit & vegetables wastes and their biomedical applications **S.S. Metwally** and W. Mamdouh	**Ms. Sherine S. Metwally**, The American University in Cairo, **Egypt**
19	Highly Sensitive Lactate Sensors Based on Carbon MEMS (CMEMS) S. Forouzanfar, F. Alam, N. Pala and **C. Wang**	**Prof. Chunlei Wang**, Florida International University, **USA**
20	Enhanced light absorption in porous silicon with nanocrystalline TiO2 deposited by metal-organic chemical vapor deposition (MOCVD) **D. Hocine**, S. Oussidhoum, M. Bensidhoum, D. Chaumont, E. Bourennane, A. Moussi, E. Lesniewska and N. Geoffroy	**Mrs. Dalila Hocine**, Mouloud Mammeri University, **Algeria**

Posters Session II: June 27, 2019 NanoMaterials for Energy and Environment / Nanoelectronics / NanoPhotonics		
Exhibition and Posters Hall- Salle Menand		
N.	**Title**	**Author/Affiliation/Country**
21	Simulation of Crossbar Architecture for Memristor Based Nano-Memory **M. Negi**, S. Srinivasan and L. He	**Ms. Meenal Negi**, San Jose State University, **USA**
22	Minimization of resistance of gravure printed electrodes with silver nano ink by controlling printing conditions **C. H. Kim** and S. Y. Lee	**Prof. Chung-Hwan Kim**, Chungnam National University, **Rep. of Korea**
23	Nickel oxide nanoparticle incorporated polypyrrole nanocomposite for supercapacitor application **H. Vijeth**, S.P. Ashokkumar, L.Yesappa, M.Vandana and H.Devendrappa	**Mr. Vijeth H**, Mangalore University, **India**
24	Si nano-polycrysalline body with ferromagnetic property and vanishing of electrical resistance at local high frequencies **T. Saiki**, Y. Iida and M. Inada	**Dr. Taku Saiki**, Kansai University, **Japan**
25	Quantum Dots as QLED devices for automotive lighting systems **J.J.Santaella**, K.Critchley, S.Rodríguez-Bolívar and F.M.Gómez-Campos	**Mr. Juan J Santaella**, VALEO Lighting Systems, **Spain**
26	Handling ligands on PbS nanoparticle surface for optimization of photovoltaic devices F. Rodríguez-Mas, **S. Fernández de Ávila**, J.C. Ferrer and J.L. Alonso	**Prof. Susana Fernandez de Avila**, University Miguel Hernández, **Spain.**
27	Effect of Electrode Surface Treatment Through Electrical Discharge Machining on Microbial Fuel Cells H.-Y. Tsai,**W.-H. Hsu** and M.-Z. You	**Prof. Wei-Hsuan Hsu**, National United University, **Taiwan**
28	Thermal and Mechanical Reinforced Montmorillonite-Polyurethane-Nanocomposites and its commercial application for shoe adhesive **K. Zhao**, Z. Yang, Y. Zhang and W. Bremser	**Mr. Kai Zhao**, Paderborn University, **Germany**
29	Determination of antibacterial and antioxidant activities of electrospun water rich angiosperms wastes nanofibers. **W. Soliman** and W. Mamdouh	**Ms. Wafaa Soliman**, American University in Cairo, **Egypt**
30	Oxidation controlled WS2/Black phosphorus nanocomposite catalyst for water treatment **R.H.Jeong**, D.I. Kim, J.W. Lee, J-H. Yu, Y.J. Won and J-H. Boo	**Mr. Rak Hyun Jeong**, Sungkyunkwan University, **Rep. of Korea**
31	Evaluation of novel composit material based on Nanoscale Zero-Valent Iron for nanobioredemiation of chlorinated ethenes: Degradation efficiency, microbial populations and material changes during ageing process **J. Semerád**, A. Ševců, N. A. H. Nguyen, K. Pospišková, J. Filip and T. Cajthaml	**Mr. Jaroslav Semerád**, Czech Academy of Sciences, **Czech Republic**
32	Photocatalytic Efficiency of ZnO Nanowires for Air Purification: Effect on acetone C=O band around 1730 cm-1 **M. Capochichi-Gnambodoe**, M. Le Pivert, N. Martin, and Y.Leprince-Wang	**Mrs. Léonce.M.C.Gnambodoe**, Paris-Est University, **France**
33	Natural Sunlight Photocatalysis Efficiency of ZnO Nanowires for Water Purification **M. Le Pivert**, M. Capochichi-Gnambodoe, N. Martin and Y. Leprince-Wang	**Mrs. Marie Le Pivert**, Paris-Est University, **France**
34	Relationship between size of acicular ferrite needles and mechanical properties of weld beads with Mn2O3- or TiO2-NPs. **A. Jiménez**, A. M. Paniagua-Mercado , V. M. López-Hirata, A. García-Bórquez, A. S. De Ita-De la Torre, M. L. Saucedo-Muñoz, E. Miguel-Díaz and C. Mejía-García	**Mr. Abel Jiménez**, National polytechnic Institute, **Mexico.**
35	Electrical and piezoresistive sensing capacities of concrete with carbon nanomaterials T. F. Yuan, S.H. Hong, J.Y. Lee and **Y.S. Yoon**	**Prof. Young-Soo Yoon**, Korea University, **Rep. of Korea**

36	Nanoporous Carbonaceous Adsorbents for Enrichment of Ventilation Air Methane (VAM) with Methane **E. Brodawka**, M. Bałys, J. Szczurowski, L. Czepirski, M. Kamienowska and K. Zarębska	**Ms. Ewelina Brodawka**, AGH University of Science and Technology, Faculty of Energy and Fuels, **Poland**
37	A study of equivalent circuit models of lithium-ion battery under irregular electrical discharge **S-H. Kim**	**Prof. Se-Hun Kim**, Jeju National University, **Rep. of Korea**