



M&Ns-19

Materials & Nanomaterials

An International Conference

Paris, 17-19 July 2019

Scientific Program



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Welcoming Message

Dear Colleagues,

The **2019 International Conference on Materials and Nanomaterials (MNs-19)** is organized by academics and researchers belonging to different scientific areas of the University Complutense of Madrid, University Carlos III of Madrid, University of Extremadura and University of las Palmas de Gran Canaria with the technical support of **Sciknowledge European Conferences**.

This event has the objective of creating an international forum for academics, researchers and scientists from worldwide to discuss worldwide results and proposals regarding to the soundest issues related to **Materials and Nanomaterials**.

This event will include the participation of renowned keynote speakers, oral presentations, posters sessions and technical conferences related to the topics dealt with in the Scientific Program as well as an attractive social and cultural program.

The papers will be published in the Abstracts E-book of the Conference. Those communications considered of having enough quality can be further considered for publication in International Conference Journals. At the authors' choice, those works not suitable for publication in any of the congress journals will be published in the Extended Abstracts E-book.

To finish, I hope that all of you will enjoy the Conference, and I wish our visitors from abroad will have a very pleasant stay in Paris.

Thank you



Prof. Mario Monzón Veróna Ph.D.

MNs-19 Chairman

Coordinator of the Research Group of Integrated and Advanced Manufacturing

Coordinator of the PhD program Chemical, Mechanical and Manufacturing Engineering

University of Las Palmas de Gran Canaria

Spain, EU

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MNs-19 Chairman
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University of Extremadura, Spain

GENERAL SCIENTIFIC PROGRAM – ORAL SESSIONS

(*) This program could be changed due to organizational issues

Wednesday, 17th July, 2019

Schedule	ROOM 1	ROOM 2	MAIN ROOM
08:45	Documentation delivery		
09:30 – 09:45	Opening session		
09:45:- 10:30			<p align="center">Plenary Talk 1</p> <p align="center">Structure-properties relationship of nanocomposites: polypoxy/CNT Abbas Tcharkhtchi ENSAM, France</p>
10:30- 11.30	<p align="center">GREEN MATERIALS</p> <p>Influence of the almond shell particle size on mechanical properties of biodegradable polymer Asunción Martínez, AIJU Technological Centre, Spain</p> <p>Demonstration of the industrial use of banana plant fibres in injection and blow moulding parts Noelia Diaz, Universidad de Las Palmas de Gran Canaria, Spain</p> <p>Modified High Lignin Content Microfibrillated Cellulose/Polylactic Acid Biocomposites Ferhat Yetis, University of Manchester, UK</p>		<p align="center">PROCESSING AND PRODUCT MANUFACTURING</p> <p>Electrochemical deposition process of Barium phosphate, a promising anode for Rhodamine B degradation AMATERZ Elhassan, Reims Champagne-ardenne university, France</p> <p>High Hardness and Better Pitting Corrosion Resistance of AISI 316L Stainless Steel by a Self-protective Paste Nitriding Process G. Vargas, Center for Research and Advanced Studies, Mexico</p> <p>Effect of operating conditions on the surface properties of plasma treated polycaprolatone surfaces María Elena Alemán, Universidad de Las Palmas de Gran Canaria, Spain</p>

11:30-12:00	COFFEE-BREAK POSTERS SESSION		
12:00 – 13:30	<p style="text-align: center;">MATERIALS IN INDUSTRY</p> <p>Some properties of concrete with plastic aggregate derived from shredded PVC sheets ilham ibrahim mohammed, Tishk University Sulaimani, Irak</p> <p>The next generation of 3D printing: multi-materials additive manufacturing Shoufeng Yang, KU Leuven, Belgium</p> <p>Enzymatic degradation study of PLA-based composite scaffolds Ricardo Donate, Universidad de Las Palmas de Gran Canaria, Spain</p> <p>Processability and characterization of polymers additivated with natural flame retardants Raquel Ortega, Universidad de Las Palmas de Gran Canaria, Spain</p>	<p style="text-align: center;">NANOMATERIALS</p> <p>Preparation and in vitro Evaluation of Nanosuspension Containing Cefpodoxime Proxetil By Nano-Spray Drying Method Umay Merve Guven, Çukurova University, Turkey</p> <p>Core-shell Graphene quantum dots on metal oxide extended hexapod heterostructures: sensitive detection of bisphenol A in live cells Ghazala Ashraf, Huazhong University of Science and Technology, China</p> <p>Confinement-Induced Ordering and Self-Folding of Cellulose Nanofibrils Kathleen Smith, ETHZ, Switzerland</p> <p>In situ AFM depth-corrected TOF-SIMS study of a multilayer vertical cavity surface emitting laser (VCSEL) sample Szilvia Kalacska Empa Swiss Federal Laboratories for Materials Science and Technology Switzerland</p>	<p style="text-align: center;">PROCESSING AND PRODUCT MANUFACTURING</p> <p>Pilot plant for the new use of a waste of banana crop to develop products of plastic composite and aquaculture Gisela Vega, Universidad de Las Palmas de Gran Canaria, Spain</p> <p>Microstructure and mechanical properties of recycled AA6111 alloys processed by direct chill casting with melt conditioning Dan Luo, Brunel University London, UK</p> <p>Super Hydrophobic Behaviour of Aluminum Nitride Microstructure Produced by High Current Arc Evaporation Matthias Edling, Technical University of Applied Sciences Wildau, Germany</p> <p>Development of highly sensitive piezoelectric nano-crystals Shlomo Berger, Faculty of materials science and engineering, Technion-IIT, Israel</p>
13.30-15.00	LUNCH-COCKTAIL		

Thursday, 18th July, 2019

Schedule	ROOM 1	ROOM 2	MAIN ROOM
9:00			Plenary Talk 2 Nanostructured multifunctional systems for regenerative medicine: an innovative and promising biomimetic approach Ilaria Cacciotti UNICUSANO, Italy
9:45 – 11:30	<p style="text-align: center;">PROCESSING AND PRODUCT MANUFACTURING</p> <p>Hard and black DLC coating for wear protective coatings and optical applications Helge Lux, Technical University of Applied Sciences Wildau, Germany</p> <p>Improvement of fibre quality by enhancement the fibre extraction process Raquel Ortega, Universidad de Las Palmas de Gran Canaria, Spain</p> <p>Characterization of donor and acceptor discotic liquid crystals to apply in organic devices Marta Elisa Rosso, Universidade Federal de Santa Catarina, Brasil</p> <p>Zeolite synthesis from geophagic clays Ifeoma V. Joseph, Manchester Metropolitan University, UK</p>	<p style="text-align: center;">NANOMATERIALS</p> <p>Investigation of electrospun nickel manganite-carbon nanofibers as electrodes for vanadium redox flow battery Alessandra Di Blasi, CNR-Istituto Tecnologie Avanzate per l'Energia, Italy</p> <p>Novel electrospinning method for the production of chitosane-cellulose membranes for an efficient adsorption of copper ions in wastewater Ilse Cardenas, Universite du Quebec Trois-Rivieres, Canada</p> <p>Engineering Miniaturized Nanoplatforms via Plasmonic Calligraphy for Efficient Multimodal Biodetection Monica Focsan, Babes Bolyai University, Romania</p>	<p style="text-align: center;">MATERIALS IN INDUSTRY</p> <p>Critical elements-free magnetic materials: FeNi films synthesis and characterization Gianni Barucca, Univeristy Politecnica delle Marche, Italy</p> <p>Micron scale deformation measurements of metals in scanning electron microscope Z. Dankházi, Eötvös Loránd University, Hungary</p> <p>Evaluation study on modified phenolic resins in protection of heat Sensitive structures Mohamad Abdalghani, College of Basic Education, Iraq</p> <p>Preparation and characterization of nanoparticles containing cefaclor monohydrate by nano-spray drying method for extended release A. Alper Ozturk, Anadolu University, Turkey</p>

		<p>Electrospun nanofibrous lignin material for the adsorption of pharmaceutical residues in wastewater Alexandre Camire, Universite du Quebec Trois-Rivieres, Canada</p>	
11.30-12.00	Coffee-break POSTERS SESSION		
12.00 – 13.30	<p style="text-align: center;">PROCESSING AND PRODUCT MANUFACTURING</p> <p>Effect of potassium polyacrylate on the morphology and particle size of a spray dried metakaolin-based geopolymer Margarita Román, Centro de Investigacion y de Estudios Avanzados del IPN, Mexico</p> <p>Soda lime glass strengthening by a flame assisted spray pyrolysis chemical tempering process Obed Cristobal Morales, Centro de Investigacion y de Estudios Avanzados del IPN, Mexico</p> <p>Step Nanostructure Evolution at the Thin Film Gold/Substrate Interface Alexander Katsman, Technion - Israel Institute of Technology, Israel</p> <p>New materials and process technologies for affordable lightweight vehicles A. Mbang Sama Daimler AG Germany</p>	<p style="text-align: center;">LIFE BAQUA PROJECT SYMPOSIUM</p> <p>General description of the project Mario Monzón. Universidad de Las Palmas de Gran Canaria. Spain</p> <p>Banana fibre and pulp extraction Gisela Vega. Universidad de Las Palmas de Gran Canaria. Spain</p> <p>Fish feed diets from banana waste Noelia Diaz. Universidad de Las Palmas de Gran Canaria. Spain</p> <p>Plastics for packaging with banana fibre Berta Gonzalvo. AITIIP technological Centre. Spain</p> <p>Plastics with banana fibre reinforcement Dragan Kusic. TECOS Slovenian Tool and Die Development Centre, Slovenia</p>	

	<p>Synthesis and ion-exchange properties of waste glass-derived zeolites Victoria K Elmes University of Greenwich UK</p>		
13.30-15.00	LUNCH-COCKTAIL		
21.15-22.45	<p>SOCIAL/CULTURAL TOUR A CRUISE ON THE SEINE AT NIGHTFALL Discover the best of Paris. Embark on the Pariscruise ships at the foot of the Eiffel Tower on the Seine river, and enjoy the wonderful sights of the most prestigious monuments and bridges of Paris, by night.</p>		

Friday, 19th July, 2019

Schedule	Room 1	Room 2	Main Room
09.00– 11.00	<p>PROCESSING AND PRODUCT MANUFACTURING</p> <p>MD simulation of polymer brushes in nanopores Chenxu Wu, Xiamen University, China</p> <p>Cmparison between geometry-based and voxel-based modelling techniques for the prediction of the mechanical behaviour of polymeric scaffolds obtained by extrusion-based Additive Manufacturing Gisela Vega, Universidad de Las Palmas de Gran Canaria, Spain</p> <p>Universal Model for Performance Characterization of Porous Heterogeneous Materials Muhammad Burhan, King Abdullah University of Science and Technology, Saudi Arabia</p> <p>LIFE BAQUA mechanical test results obtained on prepared bio composite materials with different content of banana fibres Dragan Kusic, TECOS Slovenian Tool and Die Development Centre, Slovenia</p>		<p>MATERIALS IN INDUSTRY</p> <p>Highly fluorescent, color tunable and magnetic quaternary Ag-In-Mn-Zn-S quantum dots: synthesis and characterizations Perizat Galiyeva, University of Lorraine, France</p> <p>Cellulose Hydrogels Physically Crosslinked by Glycine: Synthesis, Characterization, Thermal and Mechanical Properties Sinem Palantoken, Humboldt Universitat zu Berlin, Germany</p> <p>Molecular separation of CH₄/C₂H₆ mixtures using porous boron nitride Aleksey Mikhailovich, Tomsk State University, Russian Federation</p> <p>Investigations on Bentonite and Organo-modified Clays and Their Use in Polyamide Based Nanocomposites Alinda Oyku Akar Esan Eczacibasi Turkey</p>
11.00-11.30	<p>Coffee-break POSTERS SESSION</p>		

<p>11.30 – 13.15</p>	<p>PROCESSING AND PRODUCT MANUFACTURING</p> <p>Pulsed UV-Laser Ablation of the Chalcogenide Glasses Petr Knotek, Univ. Pardubice, Czech Republic</p> <p>Conformal Amorphous Carbon-Coating on a High Surface Area 3D Ni Nanomesh Current Collector and Its Application in Li-O₂ Battery Yongho Kee, Imec, Belgium</p> <p>Delayed Fluorescence by TTA Mechanisms in Columnar Liquid Crystal Molecules Juliana Eccher, Federal University of Santa Catarina, Brazil</p> <p>The effect of the copolymer latex as stabilizer on the rheology of Ag/Ethylene glycol nanofluid Zeroual Soukaina University Hassan II Morocco</p>	<p>NANOMATERIALS</p> <p>Nano-architected photoanodes based on TiO₂-nanorod modified by Co-ZIF67 for water splitting Waleed M. A. El Rouby ICMMO-Eriee, UMR CNRS France</p> <p>Yttrium oxyhydride-based nanomaterials Smagul Karazhanov Institute for Energy Technology Norway</p>	<p>NANOMATERIALS</p> <p>Synthesis and Characterization of Colloidal Nanoparticles for Sustainable Catalytic Applications Gillian Collins, University College Cork, Ireland</p> <p>Perovskites (La,Ba)(Fe,Ti)O₃: A07 Photocatalysis under Visible Light Ana Rodrigues, Universidade da Beira Interior, Portugal</p> <p>Synergistic effect of defect and surface plasmon resonance in Au/Ag₃PO₄ for enhanced photocatalytic activity Uyi Sulaeman, Jenderal Soedirman University, Indonesia</p> <p>Metallic ink based on nickel NPs with silver nanoshell for preparation of conductive materials Anna Pajor-Swierzy, Polish Academy of Science, Poland</p>
<p>13.15-15h00</p>	<p>CLOSING COCKTAIL and MUSIC CHAMBERT CONCERT <i>Flute and Piano Duet</i></p>		

POSTER SESSIONS

TOPIC 1: NANOMATERIALS

TOPIC 2: MATERIALS IN INDUSTRY

TOPIC 3: GREEN MATERIALS

TOPIC 4: PROCESSING AND PRODUCT MANUFACTURING

POSTER SESSION 1			
Wednesday, 17th July, 2019 11:30-12:00			
Title	Author	ID	Topic
Capturing dioxins in water with a highly efficient nanomaterial	Jeroni Morey	145	1
Characterisation on Spontaneous Redox-state Transition of Phosphomolybdic Acid Molecule Functionalised on Carbon Nanotube	Megumi Akai-Kasaya	312	1
Design and Synthesis of Helical Nanostructures: Characterization of two Isomeric Dithia[7]helicenes in the Solid State and Adsorbed on Gold Surface	Bianca Catalina Baci	302	1
Different approaches to load SPION inside lumen of halloysite nanotubes	Hady Hamza	222	1
Effect of sintering temperature and nano-grain refinement on the aging resistance of dental zirconia	Julie Holloway	174	1
Effect of the pore diameter on the ion penetration into nanoporous alumina at electroless metal deposition	Boriana Tzaneva	105	1
Effects of hydrothermal reaction and annealing temperature on the quality of nitrogen-doped graphene	Pogacean Florina	276	1
Synthesis of heteroatoms doped/co-doped graphene by exfoliation of graphite rods via pulses of current	Pogacean Florina	275	1
Investigation of Light Harvesting in Dye-sensitized Solar Cells Decorated with ZnO Nanoflowers	Fangi Lai	301	1
Microstructural and Mechanical Behavior of Carbon Fiber- and Carbon Nanotube-Aluminum Composites	Raul Perez Bustamante	289	1

Nanoparticles in enhancing microwave imaging and microwave hyperthermia effect for liver cancer treatment	Walaa Magdy Maamoun	295	1
Nanoporous anodic alumina: light scattering intensity along the pores as a function of incidence angles	Dzmitry Shymanovich	97	1
Nanosystems for Strontium-90 Capture based on functionalized magnetic nanoparticles	Paulino Duel de Juan	142	1
Perylene diimide receptors supported on iron magnetic nanoparticles for the removal of PAHs in water	Alberto Jose Leon Perez	143	1
Preliminary Investigation of the Ability of a Baker's Yeast for Biosynthesis of Metal Oxides Nanoparticles and Evaluation of Its Antibacterial Activity	Safri Ishmayana	237	1
Preparation and characterization of encapsulated paraffin wax enhanced with copper oxide nanoparticles for energy storage	Borhan A. Albiss	259	1
Preparation and characterization of Mo and Sn based Keggin type polyoxometalates. Catalytic application in cyclohexanone oxidation	Leila Dermeche	171	1
Pressure and Temperature Effects on Separation of Gd ³⁺ from Gd-DTPA-folate using Nanofiltration Membrane	Iman Rahayu	232	1
Rational design of ceria-based nanocatalysts for CO ₂ hydrogenation to value-added products	Michalis Konsolakis	108	1
Removing halogenated VOCs with hybrid magnetic nanoparticles	M Nieves Piña	144	1
The hybrid structure of ZnO nanorods and perovskite-polymer composites for the piezoelectric nanogenerators as smart sensors	Kim Hyun Gi	125	1
The enhancement of piezoelectric performance in nanogenerators	Kim Hyun Gi	126	1
Synthesis of highly crystalline carbon nanotubes by electric arc discharge and their field emission characteristics	Naesung Lee	254	1
Green mediated synthesis of carbon dots using cauliflower as a resource and its photocatalytic application		321	1

Temperature effect on Double Gate Tunnel Field Effect Transistor: Structure Based On GaAs/Si	Naima Guenifi	307	1
Temperature effect on Double Gate Tunnel Field Effect Transistor on capacitance C(V): Structure Based On GaAs/Si	Naima Guenifi	310	1

POSTER SESSION 2 Thursday, 18th July, 2019 11:30-12:00			
Title	Author	ID	Topic
Detection of 8-Hydroxy-2'-deoxyguanosine in saliva with screen-printed electrodes modified with graphene	Codruta Varodi	277	1
Influence of Zn solution concentration on the growth of Zn-Sn-O nanostructure thin films	laiche Sabrina	182	1
ZnO: Mg/ZnAl ₂ O ₄ heterostructures formation on silicon substrate for Ammoniac gas detection	laiche Sabrina	182	1
Study of Current Conduction Mechanism of Tb And Mn Codoped Bismuth Ferrite Grafted Poly (Vinyl Alcohol) Nanocomposite Film	Monalisa Halder	168	1
The impact of silver nanoparticles on optical and structural properties of some samarium doped alkali-borate glasses and glass ceramics	Lidia Pop	284	1
The study of graphite/graphene-based conductive ink formulations	Yue Guo	130	1
A computational study of plasticity induced damage during Surface Mechanical Attrition Treatment(SMAT) in TWIP/TRIP AISI 304 stainless steel	Chen Zhenglin	124	2
Ab initio study of the electronic and thermoelectric properties monolayer InSe, GaSe and InGaSe ₂	Hannan Elsayed Sadek Abdelgelil	188	2
Crystalline phase fractions in zirconia ceramics for dental applications	Isabelle Denry	173	2
Effect of polythiophene thickness on hybrid sensor sensitivity	Belhousse Samia	49	2

Electrochemical detection of 8-Hydroxy- TM -deoxyguanosine with modified electrodes	Codruta Varodi	278	2
Electrochemical Performances of NiO/LSO-LSGM/LCM and NiO/LSO-LSGM/NiO Solid Oxide Fuel Cell	Atiek Rostika Noyiyanti	233	2
Electroless deposition of copper or nickel-phosphor layers on ABS details obtained by 3D printing	Maria Petrova	138	2
Influence of cobalt ions on structural properties of new lithium-zirconate-tellurate glass-ceramics	Lidia Pop	283	2
Investigation of P3HT Photodegradation for Solar Applications	Taha Kubbar	187	2
Measurements and identification of magnetomechanical properties in shear mode of smart elastomer composite materials	Salah Aguib	111	2
Performance of Cellulose Acetate/Hydroxyapatite Composite Membrane for Chrome removal from Waste Water	Engela Evy Ernawati	236	2
pH dependent Ligand Sensitized Metal Centered Luminescence of Metal-Organic Materials in Aqueous Medium	Partha Mahata	122	2
Probing shape-memory assisted scratch-healing properties of optically transparent crosslinked thiol-ene coatings for optoelectronic applications	Algirdas Lazauskas	164	2
Rhodamine Based Chemosensors for Metal Ions: Effect of Substituents	Partha Roy	121	2

POSTER SESSION 3
Friday, 19TH July, 2019 11:00-11:30

Title	Author	ID	Topic
Investigation of Hot Deformation Parameters on Efficiency of Power Dissipation in an NCATB Shape Memory Alloy using Taguchi Method	Adarsh Sorekunte Huchappa	50	2
Study on mixed sodium manganese-copper sulfate dihydrates as precursors for electrode materials for sodium ion batteries	Delyana Manasieva	77	2
Studying the onset of galvanic corrosion in steel using synchrotron X-rays and electrochemical techniques	Debi Garai	71	2
Tailoring of sulfate-based polyanion electrode materials: nickel versus cobalt	Delyana Manasieva	208	2
Theoretical study of methane adsorption and dissociation on CuRu(100) binary alloy surface	Habib Khettal	239	2
Composite chitosan-bioactive glass membranes for direct pulp-capping	Victoria K Elmes	148	2
Green process of adipic acid synthesis from cyclohexanone and cyclohexene over Dawson-type polyoxometates	Leila Dermeche	170	3
Preparation of silica from rice husk and its application for fabrication of zinc oxide-silica composite with high photocatalytic activity for reduction of chromium in waste water	Diana Rakhmawaty Eddy	234	3
Sustainable Production of Polypropylene Carbonate using Captured CO ₂ Emissions and Renewable Feedstocks	Eric Kennedy	84	3
Application of Microcapsules of Key Lime (Citrus aurantifolia) Essential Oil to Cotton Textile for Mosquito Repellent	Euis Julaeha	235	3
Uptake of aqueous Cd ²⁺ , Co ²⁺ and MoO ₄ ²⁻ by recycled concrete fines	Michael J Rivett	149	3
Pre-treatment of dielectrics and technological process for deposition of chemical copper layers from ecological copper solution	Mihaela Georgieva	137	3
Accelerating materials exploration with adaptive design	Wen-Jay Lee	249	4

Antimicrobial polymer-clay composite films	Nichola J Coleman	146	4
Characterization of silane-base self-assembled monolayer on the anodic oxidation of tantalum films for copper metallization	Sung-Te Chen	162	4
Complex Faraday and Kerr Rotations in Right and Left Handed Films and Layered Structures	Esther Jodar	294	4
Conductivity of PMMA composite casting films filled with ultra-high aspect ratio of carbon fibers	Huagen Xu	214	4
Double percolation effect on conductivity of PMMA/PS/CB and PEMA/PS/CB ternary composite films	Huagen Xu	215	4
Effect of post-selenization on the performance of CZTSe thin film solar cells	Shou-Yi Kuo	281	4
Optical characterization of Zinc Sulfide (ZnS) thin film by aerosol assisted chemical vapour deposition (AACVD) technique	Musa Abubakar Bilya	38	4
Properties of sulfuric acid post-treated DMSO-doped PEDOT:PSS multilayers	Algirdas Lazauskas	163	4
Quality Amorphous IGZO Thin Film Deposited by AP-PECVD	Know-Ming Chang	285	4
Structural, electronic, elastic and thermodynamical properties of BaSrLiH ₃	Brahim Bahloul	104	4
The study on the UV shielding property of SiO ₂ -TiO ₂ alternating stack multilayer film deposited by RF sputtering	Sungwoo Kim	287	4
Improvement of Basic Properties of Jute Fiber Reinforced TPU Based Bio-composites by Applying Surface Treatments on Fiber Surface	Alinda Oyku Akar	324	4
Aqueous Gold Nanoparticle Solutions for Improved Efficiency in Electrogenated Chemiluminescent Reactions	P. Perez-Tejeda	326	4
Reversible dna compaction induced by partial intercalation of 16-ph-16 gemini surfactants	P. Perez-Tejeda	326	4