

ANM2018 (www. http://advanced-nanomaterials-conference.com)

18-20 July 2018, Reitoria, University of Aveiro, Portugal

Program at a glance

Hours	18 July 2018	19 July 2018	20 July 2018
8.30-9.45	Registration	Registration	Registration
9.00-9.45	Coffee session	Coffee session	Coffee session
9.45- 10.00	Opening Session (Auditorium)	Plenary talk (Auditorium)	-
10.00-13.00	Invited & Oral presentations	Invited & Oral presentations	Invited & Oral presentations
13.00-14.00	Lunch	Lunch	Lunch
14.00-17.30	Invited/Oral presentations	Invited/Oral presentations	Invited/Oral presentations
17.00-18.00	Poster presentations & Coffee session	Poster presentations & Coffee session	Coffee Session
17.30	-	-	Aveiro city tour & Boat trip
18.00	-	Banquet, Visit to Vista Alegre Musuem, Band by Tuna University of Aveiro. (Bus will leave University of Aveiro by 18.00 hours)	-

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AMM- Poster	15	Main Hall
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AGM- Poster	16	Main Hall
APM- Poster	17	Main Hall
HE- Poster	18	Main Hall

Auditorium		
18 July		
Opening Session & ANM (Advanced Nano Materials)		
Program Chairs: Nivas Babu Selvaraj, Olga Karavai, Budhendra Kumar Singh, Silvia Reis		
Session Chairs: João Campos Gil, Carmen M. Rangel, João Pedro Araújo, Luiz Pereira		
Time	Name	Title
9.45- 10.00	Joao Campos Gil/ Luiz Pereira	Welcome address
10.00-10.20	Luis Manuel Costa (Invited)	Using impedance spectroscopy to characterize industrial processes: from materials to agriculture
10.20-10.35	Jeffrey M. Gordon	Singular nanostructures by highly concentrated sunlight
10.35-10.50	Katerina Prouzova	Layered Organophosphonates as Suitable Starting Materials for Production of Nanosheets via Top-down Approach
10.50-11.05	Md. Abdul Matin	PtZn Nanoparticle Electrocatalysts Synthesized by Solution Combustion for Ethanol Oxidation Reaction in an Alkaline Medium
11.05-11.20	Sudhir Kumar Sharma	Production of NSAID pharmaceutical molecular liquids via RESS Processing
11.20-11.35	Victor Lopez-Richard	Exploring the Functionalities of Quantum Dot-Based Transistors
11.35-11.50	Fernando J.A.L. Cruz	Thermodynamics and Kinetics of DNA in Hydrophilic Nanopores
11.50-12.05	Vera Deeva	Nanolayer in brush collector contact under Joule heating
12.05-12.20	Jianhai Yue	Fault Diagnosis of Rolling Bearing Based on Coaxial Vibration Signal Fusion
12.20-12.35	Racca Laiza	Synthesis of Calcium Carbonate Nanoparticles Using Miristic Acid as Surface Modifier
12.35-12.50	Georgii Kharlamov	The Surface Tension of Critical Nuclei
12.50-13.05	Beya Ouertani	Characterization of Ru-alloyed iron oxide thin films, synthesized by spray pyrolysis
13.05-14.00	Lunch	
18 July- ANM- Auditorium		
Session Chairs: Fernando J.A.L. Cruz, Luiz Pereira, Joao Campos Gil, Carmen M. Rangel		
14.00-14.15	Marinella Striccoli (Invited)	Colloidal Nanostructured Materials for Optical and Photonic Application
14.15-14.30	Satyapaul A. Singh	Role of transition metals substitution in Co3O4 – ZrO2 composites for methane combustion
14.30-14.45	Alexander A. Rogachev	Preparation and performance study of TiO2 nanorod arrays based perovskite solar cells employing different PbI2 solutions
14.45-15.00	Natalia Fernández-Delgado	Structural and Compositional Characterization of Lead Halide Perovskites for Solar Cells by (S)TEM Techniques

15.00-15.15	Alexey Sherchenkov	Development and Investigation of the Effective Thermoelectric Materials for the Multisectional Generator Thermoelements
15.15-15.30	Tiago Entradas	Gold Nanoparticles, a New Approach to Photodynamic Therapy for Cancer Treatment
15.30-15.45	Samar Damiaty	Exploiting Natural Nanomaterials in Biosensor Technology
15.45-16.00	Leonardo Kleber Castelano	Implementing the Universal Set of Quantum Gates in Quantum Dots
16.00-16.15	Hak Yong Kim	Synthesis and Photoluminescence Properties of Amorphous La ₂ O ₃ -ZrO ₂ :Eu ³⁺ Nanofibrous Membranes as Photonic Application
16.15-16.30	Mehdi Khalaj	Palladium Nanoparticles as reusable catalysts in the Synthesis of N-aryl sulfonamides under mild reaction conditions
16.30-16.45	Silvio Scaravonati	Electrochemical intercalation of fullerene and hydrofullerene with sodium
16.45-17.00	Sergio Catalán-Gómez	Plasmonic gallium nanoparticles for the photoluminescence enhancement of monolayer MoS ₂
17.00-17.15	Jin Woo Jo	Fabrication and Characterization of Color Particle Using the Reactive dye and Ion Exchange Particles

19 July - ANM- Auditorium		
Session Chairs: Elamathy Balamoorthy, Luiz Pereira, Carmen M. Rangel		
9.45- 10.00	Luis Fonseca (Plenary)	Free transnational access to the widest range of tools for research at the nanoscale
10.00-10.20	Irina Buyanova (Invited)	GaAs/GaNAs Core/Shell Nanowires - a Novel Material System for Near-Infrared Nanolasers
10.20-10.40	Duanjun Cai	Cu nanosilk network: the next generation of transparent conductors
10.40-10.55	Cristina M. Sabliov	Nanoentrapped Polyphenol Coating For Sustained Drug Release from A Balloon Catheter
10.55-11.10	Mieczyslaw Pietrzyk	Self-organized ZnMgO nanocolumns with ZnO/ZnMgO quantum wells grown on different substrates by MBE technique
11.10-11.25	Jae-Ho Kim	Surface modification of nano-metal oxides using fluorine gas
11.25-11.40	Min Guo	Structure and properties of biocompatible polymers-based coatings deposited from active gas phase with controlled release of antibacterial components
11.40-11.55	Mei Zhang	Metal oxides nanoparticles enhancing Na2CO3 /Al2O3 sorbents for selective removal HCl at low temperature
11.55-12.10	Masanari Namie	Nano etching of oxide layers on SiC materials using fluorine gas
12.10-12.25	Daniel F. Reyes	Effect of GaAs(Sb)(N) capping layers on (un)coupled InAs/GaAs multi quantum dot layers for enhanced solar cells
12.25-12.40	Peng Diao (Invited)	Nanostructured Copper Tungstate Film: Preparation and Application in Solar Water Splitting
12.40-12.55	Stefanie Kreft	Photocatalytic Reduction of Aqueous CO2 Using Cu/TiO2 Aerogel and the Mystery of Oxygen
12.55-14.00	Lunch	
19 July- ANM- Auditorium		
Session Chairs: Mei Zhang, Duanjun Cai, Nivas Babu Selvaraj		
14.00-14.15	Florent Pourcin	Hybrid materials using multi-layer architectures with near-ideal tunable large band absorption for stealth applications

14.15-14.30	Jose Francisco Wilson	Numerical study of the effect of nanoparticle softening on the size of fractal aggregates
14.30-14.45	Marcos Lanzon	Nanoparticle-based Ca(OH) ₂ coatings for consolidating heritage materials: evaluation of efficiency and surface-dispersion using microscopy and image analysis.
14.45-15.00	Abdulilah Dawoud Bnai-Yaseen	Computational Insights into the Interactions of Diclofenac with the Surface of Hydroxyapatite in Solutions
15.00-15.15	Alexandre Jeronimo	Development of nanoadditivated antifungal lime mortars
15.15-15.30	Rimzhim Gupta	An approach towards photoelectrocatalytic inactivation of E. coli using vertically aligned FTO/ZnO/CuI
15.30-15.45	Aaryashree	Synergetic assembly of Zn-OPV Composite for Ammonia Sensing
15.45-16.00	Margaux Desseigne	Shape dependence of photosensitive properties of WO ₃ for photocatalysis under UV-Vis light irradiation
16.00-16.15	Arif Ibrahim	Nano-structured palladium impregnated graphitic carbon nitride composite for an efficient hydrogen gas sensing
16.15-16.30	Elamathy Balamoorthy	Stable 1T- Metallic MoS ₂ for Supercapacitor Application

20 July- ANM- Auditorium		
Session Chairs: Catarina Dias, Bruna F. Gonçalves, Mónica Tirado		
10.00-10.20	Tito Trindade (Invited)	Nanometal loaded polymers as versatile SERS substrates for the trace detection of aqueous pollutants
10.20-10.40	Francis Leonard (Invited)	Structural and Chemical Analysis of Filled Nanotubes
10.40-10.55	Paul Joyce	Designing Nanostructured Particles that Modulate Fat Digestion and Absorption for the Treatment of Obesity
10.55-11.10	Yuanyuan Chen	Nb doped K-OMS-2 as the cathode materials of the aqueous sodium ion battery
11.10-11.25	Wai Kian Tan	Investigation on the Anchor Layer Formation Mechanism of Aerosol Deposition
11.25-11.40	Anil Ch	Kinetic study of Mn _{2.94} M _{0.06} O ₄ - δ (M=Pt, Pd, Ru) catalysts for low temperature Water gas shift (WGS) and CO oxidation
11.40-11.55	Gulcihan Guzel Kaya	The effect of polyethylene glycol and carbon black addition on the properties of silica xerogels synthesized from groundnut hull ash
11.55-12.10	Jialiang Du	CuCo ₂ S ₄ Nanowires Arrays Supported on Nickle Foams with Ultrahigh Capacitance for Aqueous Asymmetric Supercapacitor Applications
12.10-12.25	Sami Dursun	Synthesis, characterization and photocatalytic activity of SnO ₂ nanofibers
12.25-12.40	Sergey Bozhko	Writing with atoms using electric field of STM probe
12.40-12.55	Anara Molkenova	Gd ₂ O ₃ nanoparticles coated with nitrogen doped carbon layer for potential biomedical application
12.55-13.10	Thiru G. Manivasagam	Insitu grown Hematite/g-C ₃ N ₄ Composites for Supercapacitor Applications
13.10-14.00	Lunch	
20 July- ANM- Auditorium		
Session Chairs: Anil Ch, Jialiang Du, Sergey Bozhko		

14.00-14.15	Veronica Braza Blanco	Analysis of bismuth segregation in InAsBi/InAs superlattices grown by MBE
14.15-14.30	Mónica Tirado	ZnO Nanowires on Graphite with Improved UV Photoluminescence
14.30-14.45	Zoltán Dudás	Methyl-substituted silica xerogels for controlled release of captopril
14.45-15.00	Sushant Kumar	Paper Based Non Enzymatic Glucose Sensor
15.00-15.15	Ismail Cihan Kaya	Synthesis of CuSbS ₂ Nanoplates by Hot-injection Method
15.15-15.30	Marko Milojević	Evaluation of material properties and suitability for growth of pancreatic cells
15.30-15.45	Andrey Kovalskii	The Development of BN Nanoparticles as Promising Catalysts Support
15.45-16.00	Raminta Stagniunaite	Comparison of Carbon Based Cobalt Catalysts for Oxygen Reduction Reaction using β -cyclodextrine and morpholineborane as reducing agents
16.00-16.15	Catarina Dias	Resistive Switching behaviors of Al ₂ O ₃ /MgO Bilayer Structures
16.15-16.30	Bruna F. Gonçalves	Water-based CuIn _x Ga _{1-x} Se ₂ chalcopyrite screen printed thin films for printable solar cells
16.30-16.45	Wen-Hao Chuang	Silver Nanoparticles Immobilized on Thermo-Sensitive Dendritic-Polymer Micelles for SERS Detections
16.45-17.00	Sapto Wijanarko R	Gold Nanoparticles Immobilized on Zinc Oxide Nanoparticles for for Photodegradation and SERS Detection of Water Pollutants

18 July- HE (Hydrogen Energy)- Room A		
Program Chairs: D. Pukazhselvan, R. Devaraj, Ming Fang, Wei Jian Xu		
Session Chairs: Ftwi Yohaness Hagos, Myo-eun Kim, Thillai Sivakumar Natarajan, Giacomo Magnani		
10.00-10.15	Daniel De Wolf	A comparison of distribution of energy between Fuel Cell Electrical Vehicles and Battery Electrical Vehicles in Europe
10.15-10.30	Ilenia Rossetti	Hydrogen Production by Exploiting Diluted Second Generation Bio-ethanol: Process Design and Economic Assessment
10.30-10.45	Türkan Kopaç	Effect of Ammonia and Boron Modification on the Surface and Hydrogen sorption characteristics of activated carbons from coal
10.45-11.00	A.V. Shlyakhtina	Structural stability of Nd ₆ MoO ₁₂ -based electron-proton conductors under dry and wet oxidizing and mild reducing conditions
11.00-11.15	Min Zhu	In Situ Growth of Ni _{0.85} Se on Graphene as a Robust Electrocatalyst for Hydrogen Evolution Reaction
11.15-11.30	Mauro Riccò	Hydrogen Storage in Alkali Clusters Intercalated Fullerenes
11.30-11.45	Cong Geng	Improved Energy Management Research for Fuel Cell Extension
11.45-12.00	Jurga Juodkazyte	Dimensionally Stable Nickel Oxide Anode for Selective Oxygen Evolution from Seawater
12.00-12.15	Palyam Subramanyam	TiO ₂ -Ag-Bi ₂ S ₃ nanocomposite as photoanode for enhanced photoelectrochemical water splitting for hydrogen generation
12.15-12.30	Anand Kumar	Highly active and stable bi-functional NiCo ₂ O ₄ catalyst for Oxygen reduction and Oxygen evolution reactions in alkaline medium
12.30-12.45	Gianguido Ramis	Photoreactors Design in the Exploitation of Biorefinery Processes: the Case of Hydrogen Production
Lunch		

19 July- HE (Hydrogen Energy)- Room A		
Session Chairs: Türkan Kopaç, Ilenia Rossetti, Carmen M. Rangel		
10.00-10.15	Dorin Boldor	Optimization of Gasification Process for Conversion of Agricultural Residues to Syngas: Evolution of Hydrogen and Carbon Monoxide
10.15-10.30	Maria A. Goula	Investigating the Correlation between Deactivation and Carbon Deposition on Ni/Al ₂ O ₃ and Ni/CaO-MgO-Al ₂ O ₃ catalysts
10.30-10.45	Billel Boumaaraf	A detailed thermal-electrical study and modeling of a hybrid photovoltaic thermal collector under meteorological conditions of Algiers
10.45-11.00	Karolina Kordek	Electrocatalytic hydrogen evolution using partially oxidized nickel-cobalt composite films
11.00-11.15	Zhunqing Hu	Experimental study on flame instability of hydrogen blended low calorific value gas
11.15-11.30	Xin Zhang	Simulation calculation of laminar premixed flame instability of hydrogen blended low calorific value gas
11.30-11.45	Jianhai Yue	Experimental study on self acceleration characteristics of unstable flame of low calorific value gas
11.45-12.00	Julio J. Conde	Forcing water distribution inside a PEM fuel cell by asymmetric MEAs with hydrophobic catalyst layers
12.00-12.15	Aysenur Gencer	Properties of BaYO ₃ Perovskite and Hydrogen Storage Properties of BaYO ₃ Hx
12.15-12.30	El Mahdi Khetabi	Effects of mechanical compression on the performances of Proton Exchange Membrane fuel cells by the use of in-situ characterization techniques
12.30-12.45	Nilson Kunioshi	Silicon Surfaces as Substrates for Carbon Dioxide Reactions with Hydrogen
Lunch		

20 July- HE (Hydrogen Energy)- Room A		
Session Chairs: Maria A. Goula, Julio J. Conde, Hang Zhou		
10.00-10.20	Duncan P.Fagg (Invited)	Protonic Ceramic Electrochemical Cells
10.20-10.40	Munoz-GDaniel	The role of the synthesis on protonic conductivity in ZIF-8
10.40-10.55	Patrick Da Costa	Iron promoted nickel containing hydrotalcite-derived catalysts for plasma and thermal CO ₂ methanation reaction
10.55-11.10	Giacomo Magnani	Metal Decorated Graphene as a Substrate to Promote the Formation of Nanosized MgH ₂
11.10-11.25	Maria A. Goula	Hydrogen production through the glycerol steam reforming reaction: The influence of Y ₂ O ₃ doping on Ni/ZrO ₂ catalysts
11.25-11.40	Thillai Sivakumar	Visible light responsive La(OH) ₃ /ZnIn ₂ S ₄ composite photocatalyst for non-sacrificial H ₂ production from water
11.40-11.55	Ivan Cabria	Hydrogen Storage Capacities of Nanoporous Carbons using DFT-based methods that include Dispersion Interactions
11.55-12.10	Ftwi Yohaness Hagos	CFD Modelling of Combustion of CNG and Hydrogen-rich Syngas Under a Dual Fueling Strategy
12.10-12.25	Huseyin B.Yildiz	A Photoelectrochemical Device for Water Splitting-
12.25-12.40	Maria Elena Gálvez	Solar-assisted thermochemical process for the production of syngas from methane and/or biogas using solid oxygen carriers

12.40-12.55	Myo-eun Kim	Optimization of efficiency for PEM fuel cells on dead-end operation.
Lunch		

18 July- APM (Advanced Polymer Materials)- Room B		
Program Chairs: Mario Santos, Estelina Da Silva, Olena Okhay		
Session Chairs: Subhash Chandra, Ada Saccà, Gisele Boiteux, Guiling Wang		
10.00-10.15	Sang Youl Kim	Modification of Carbon Nanotubes by Surface-Initiated Chain-Growth Condensation Polymerization
10.15-10.30	Aurelia Visa	Synthesis, Characterization and Rare Earth Elements Adsorption Properties of Phosphonate Metal Organic Framework
10.30-10.45	B. Guiffard	Electromechanical couplings in soft polymer films for smart microwave antennas and curvature sensors
10.45-11.00	Cristian Mendes-Felipe	Electro-mechanical properties of UV-curable piezoresistive composites for sensor applications
11.00-11.15	Ander Reizabal López-Para	Piezoresistive silk fibroin-based composites for force and deformation sensing
11.15-11.30	Sarani Zakaria	Rigid Polyurethane Foams from Liquefied Empty Fruit Bunch based Polyols
11.30-11.45	Przemyslaw Data	Electropolymerized Xanthone derivatives as materials for TADF emitters
11.45-12.00	Miguel de Dios	Study and examples of the application of Key Enabling Technologies (KETs) in the habitat sector: KrEaTive Habitat Project
12.00-12.15	Pablo Franco Betancur	Effect of Fiber Morphological Defects on the Electrochemical Properties of LiFePO ₄ Cathode Material for Li-ion Batteries
12.15-12.30	Nicolas Castano-Villa	Synthesis and characterization of micro/nanostructured Li ₄ Ti ₅ O ₁₂ fibers with different morphologies as anode materials for Li-ion batteries
12.30-12.45	Maria Alexandra López	Electrospinning synthesis of LiFePO ₄ /Carbon Nanofibers as cathode material for fiber-like batteries
12.45-13.00	M. R. El-Aassar	Surface-Functionalization of novel poly (Acrylonitrile -co- Styrene/ Pyrrole) copolymer electrospun nanofibers for using as high-performance carrier for laccase immobilization
13.00-13.15	Ji Hyeon Kim	Synthesis of POSS-PEG Materials and Manufacturing of Gas Separation Membranes for Carbon dioxide Separation
Lunch		

19 July- APM (Advanced Polymer Materials)- Room B		
Session Chairs: Maria Alexandra Cortés López, Sarani Zakaria, Sang Youl Kim, Aurelia Visa		
10.00-10.15	Alexander A. Rogachev	The structure and properties of polyaniline-based coating deposited from active gas phase
10.15-10.30	Guiling Wang	Polyaniline coated 3D cross-linked carbon nanosheets for high energy density supercapacitors
10.30-10.45	José Javier Relinque	Design and characterisation of Polysulfone/Graphene nanocomposites used as membranes for water filtration
10.45-11.00	I-Yun Cheng	Magnetic Microcapsule Induced the Crosslinking of Self-Healing Hydrogel for Intraarticular Injection to Promote Cartilage Repair

11.00-11.15	Wei-Hung Cheng	Temperature-sensitive Immunoparticles with Photothermal Therapy Synergic with Immune Checkpoint Blockade to Enhance Immune Response and Anti-metastatic Effect on Breast Cancers
11.15-11.30	Milena Setka	Electrochemically deposited gold/polypyrrole nanorods and study of their ammonia sensing properties
11.30-11.45	Mohamed El-Aassar	Surface-Functionalization of novel poly (Acrylonitrile -co- Styrene/ Pyrrole) copolymer electrospun nanofibers for using as high-performance carrier for laccase immobilization
11.45-12.00	Evgeny Modin	Electron Tomography of Multiphase Polymeric Nanoparticles
12.00-12.15	O. M. Hemeda	Study of Some Physical Properties of Some Ferrite- PVDF Composite
12.15-12.30	Subhash Chandra	Polymer Nanocomposite of Quantum Dots and Plasmonic Nanoparticles for Quantum Dot Solar Concentrators
12.30-12.45	Belkacem Nessark	Synthesis, characterization and analysis of electrochemical properties of copolymers from heterocyclic: pyrrole, bithiophene and 2-methylfuran
12.45-13.00	Ada Saccà	Composite Nafion membranes with nano-crystalline Ytria-Stabilised Zirconia for Polymer Electrolyte Fuel Cells (PEFC) applications in drastic conditions
13.00-13.15	Gisele Boiteux	Structure and electrophysical properties of composites with ordered distribution of carbon nanofillers in polymer matrix
13.15-13.30	Abhijeet Choudhury	Enhancement of Pressure Sensing Range for PDMS based Capacitive Sensor by Polymer Matrix Composite Engineering
Lunch		

18 July- AMM (Advanced Magnetic Materials)- Room A		
Program Chairs: D. Pukazhselvan, R. Devaraj, Ming Fang, Wei Jian Xu		
Session Chairs: Alex Trukhanov, Mahendran Samykano, Arxel de Leon Santillan		
14.00-14.20	Weimin M. Chen (Invited)	Fundamental building blocks for room-temperature semiconductor spintronic
14.20-14.35	Alia H. Salama	Effect of Temperature and frequency on electrical conductivity and Dielectric Properties of Cobalt Ferrite Nanoparticles Prepared via Combustion Method
14.35-14.50	Ivan Cabria	Magnetostatic Dipolar Anisotropy Energy of Ferromagnetic Thin Layers and Nanowires
14.50-15.05	Mahendran Samykano	Nickel Nanowire: Magnetic Ordering Synthesis
15.05-15.20	Alex Trukhanov	Magnetoresistance in multilayered magnetic nanowires for spintronic applications
15.20-15.35	Ekaterina Trukhanova	Origin of the dual ferroic properties in In-substituted M-type hexaferrites
15.35-15.50	Vyacheslav Storchak	Atomic-Scale Engineering of Si and Ge Interfaces with a Ferromagnet
15.50-16.05	Jan Soltys	Study of ferromagnetic/non-magnetic multilayer patterned dots
16.05-16.20	Andrzej Wawro	Engineering of interlayer magnetic coupling in Co-based ultrathin multilayers
16.20-16.35	Natalia Kovaleva	Localization effects in the disordered Ta interlayer of multilayer Ta-FeNi films
16.35-16.50	Ana Lima	Highly anisotropic response of polymer-based magnetoelectric materials through oriented magnetic nanostructures

16.50-17.05	Arxel de Leon Santillan	Synthesis of Co ₃ O ₄ nanoparticles reduced with NaBH ₄ , optical and magnetic properties
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19 July- AGM (Advanced Graphene Materials)- Room B		
Program Chairs: Mario Santos, Estelina Da Silva, Olena Okhay		
Session Chairs: Daniele Pontiroli, Piotr Wiench, Sunil P. Lonkar, Nurhafizah M.D		
14.00-14.20	Fa-Nian Shi (Invited)	The pH Controlled Excellent Photocatalytic Activity of a Composite Designed from a CuBi-MOO with Graphene
14.20-14.35	Aires Ferreira	Charge-spin conversion in atomically-thin van der Waals heterostructures
14.35-14.50	George S. Kliros	Strain Effects on the Quantum Capacitance of Graphene Nanoribbon Devices
14.50-15.05	Eunice Cunha	Silane functionalized graphene materials for silicone rubber composites
15.05-15.20	Rasuolė Lukošė	Magnetoresistive Properties of Co-doped Manganite-Graphene Structure in High Pulsed Magnetic Field
15.20-15.35	Fatima Akhtar	Study the effect of different ambient conditions on the annealing of polycrystalline Ni/SiO ₂ /Si and the growth of graphene
15.35-15.50	Adriana Marinoiu	Synthesis of well dispersed gold nanoparticles on reduced graphene oxide and its application in PEM Fuel Cells
15.50-16.05	Natalia Candido Homem	Surface modification of a polyethersulfone microfiltration membrane with graphene oxide for reactive dyes removal
16.05-16.20	Chun-Da Liao	The Growth of Millimeter-Scaled Graphene Single Crystal through Nucleation Density Control in Height-Confined Reaction Slits
16.05-16.25	Paata J. Kervalishvili (Invited)	Boron-10 isotope doped silicon-graphene nanosensory element for neutron detection

20 July- AGM (Advanced Graphene Materials)- Room B		
Session Chairs: Fa-Nian Shi, Paata J. Kervalishvili, Aires Ferreira		
14.00-14.15	Daniele Pontiroli	Metal-Oxides Decorated Graphene Materials for Supercapacitors
14.15-14.30	Marie Bohacova	Comparison of properties of graphite and carbon nanotubes treated by different oxidation agents
14.30-14.45	Piotr Wiench	Influence of nitrogen functional groups in N-doped reduced graphene oxides on the electrochemical sensing parameters of dopamine
14.45-15.00	Valentin Petrov	Graphene Materials for Mode-Locking of Bulk 2-μm Lasers
15.00-15.15	Alba María Sotillo	Graphene as corrosion protection films for metal surfaces
15.15-15.30	Abbas Jafarizad	Mitoxantrone Delivery with Gold Nanoparticle and Gold/Graphene Oxide Nano Composite in Vitro Brain Cancer Therapy
15.30-15.45	Nurhafizah M.D	The Production of Graphene Oxide via Electrochemical Exfoliation and Its Application As Conductive Electrodes
15.45-16.00	Sunil P. Lonkar	3D Nanostructured Assembly of MoS ₂ -WS ₂ /Graphene as High Performance Electrocatalysts
16.00-16.15	Mourad Boutahir	Raman study of bithiophene encapsulated in single-walled carbon nanotubes

16.15-16.30	John Texter	Graphene Dispersions for Printing, Composites, and Energy
16.30-16.45	Masayuki Shirai	Synthesis and Hydrogenation Catalysis of Platinum Nanosheet Intercalated Graphite Layers

19 July- ANE (Advanced Nano Electronics)- Room A		
Program Chairs: D. Pukazhselvan, R. Devaraj, Ming Fang, Wei Jian Xu		
Session Chairs: Sebastian Zlotnik, Ioan Baldea, Fernando B. Dias		
14.00-14.20	Henrique L. Gomes (Invited)	Nano-fibrous bacterial cellulose for electrophysiological transducers
14.20-14.35	Gintautas Simkus	Organic Vapor Phase Deposition for OLED Technology
14.35-14.50	Manish Kumar	High efficient deep-yellow organic light emitting diodes based on a thermally activated delayed fluorescence emitter
14.50-15.05	Marian Chapran	High triplet level acceptors for multicolor exciplex emission
15.05-15.20	Fernando B. Dias (Invited)	Photophysics of TADF Emitters for Efficient Triplet Harvesting in OLEDs
15.20-15.35	Beata Luszczynska (Invited)	Influence of space charge limited current and unbalanced mobilities on the organic photodetector parameters
15.35-15.50	Amruth C	Slot-die coating of double polymer layers for the fabrication of organic light emitting diodes (OLEDs)
15.50-16.05	Anastasia Klimash	Synthesis and Properties of Novel Monodisperse Conjugated Materials Based on Truxene-Benzothiadiazole-Truxene Core
16.05-16.20	Ramin Pashazadeh	Room Temperature Phosphorescence and Thermally Activated Delayed Fluorescence from Purely Organic Compound
16.20-16.35	Xiaofeng Tan	Synthesis and Characterization of Donor-Acceptor Materials with Novel triazine substituent for TADF Emitters
16.35-16.50	Juozas Vidas Grazulevicius	Molecular Glasses Containing Donor and Acceptor Moieties as Emitters and Hosts for Efficient Organic Light Emitting Diodes
16.50-17.05	Gabriela W. Salyga	Iridium (III) complexes with donor and acceptor units as emitters in polymer light emitting diodes
17.05-15.20	Antonio Maggiori	Novel benzonitrile compounds with mixed carbazole and phenothiazine substituents exhibiting TADF, AIE and Mechanochromism

20 July- ANE (Advanced Nano Electronics)- Room A		
Session Chairs: Victor Lopez-Richard, Henrique L. Gomes, Amruth C		
14.00-14.15	Victor Lopez-Richard	Engineering the Bistable Electroluminescence in Resonant Tunneling Devices
14.15-14.30	Yasuhisa Omura	Physics-Based Model for Resistance Transition of Sputter-Deposited Silicon Oxide Films
14.30-14.45	Uvanesh Kasiviswanathan	In-house Developed Electric Cell-Substrate Impedance Sensing (ECIS) System for Studying Dynamic Behaviour of Myoblast cells
14.45-15.00	Sebastian Zlotnik	Wide-Bandgap AlGaIn Epitaxial Structures: Technological Challenges
15.15-15.30	Ali Gokirmak	Phase Change Memory as a Hardware Security Platform

15.15-15.30	Marco Colella	26DCzPPy:PO-T2T interfacial TADF exciplex as a tool to localise excitons, improve efficiency and increase lifetime
15.30-15.45	Pavel Chulkin	Organic Light Emitting Diode Optimisation based on Charge Carrier Mobility and Density Monitoring
15.45-16.00	Piotr Pander	Reinterpretation of the Role of Local Triplet States in Exciplexes Utilized as Organic Light Emitting Diode Emitters
16.00-16.15	Marharyta Vasylieva	Electrochemical and spectroelectrochemical investigation of differently substituted pyridine by phenoxazine or phenothiazine units
16.15-16.30	Helena Silva	Phase Change Memory and High Temperature Electro-Thermal Processes
16.30-16.45	Gema Martinez-Criado	Polarized Picosecond Optical Emission from Single InGaN/GaN Core-Shell Wires
16.45-17.00	Oleh Vybornyi	Buchwald-Hartwig cross coupling amination reactions as a valuable tool in the preparation of the organic compounds for high efficiency OLEDs
17.00-17.15	Ioan Baldea	Impact of Molecular Conformation on Transport and Transport-Related Properties at the Nanoscale
17.15-17.30	Manish Kumar	Boosting the Understanding of the Underlying Mechanisms in Deep Blue Organic Emitters

Poster Presentations

Main Hall, Reitoria, University of Aveiro

ANM -19 July, 17.00-18.00 hours		
ANM01	Hsin-Yi Lee	Great Performance of Al-doped ZnO Films Prepared by Atomic Layer Deposition
ANM02	Abderrahim EL HAT	Molar optimization and comparison of Sn _x Sy thin films deposited by spray pyrolysis technique
ANM03	S.L. Patel	Structural and Electrical Properties of CdTe Thin Films with the Application of CdCl ₂ Treatment
ANM04	Yerkezhan Amangeldinova	One-dimensional hematite nanoneedles for the potential degradation of organic dyes
ANM05	Dimaral Aben	Eu, Li codoped zirconia nanoparticles with enhanced optical properties
ANM06	Jau-Shiung Fang	Strengthening of porous low-k dielectric by nitrogen stuffing treatment and capping an ultrathin Mn barrier
ANM07	Gilmar Eugenio Marques	Photovoltaic Efficiency of Intermediate Band Solar Cells Based on CdTe/CdMnTe Coupled Magnetic Quantum Dots
ANM08	Rong-Fuh Louh	Electrospun Porous Nanocomposites of Titania Fibers Doped with Silver Nanoparticles as Visible Light Photocatalytic Wound Dressing
ANM09	Cristina Busuioc	Template Assisted Synthesis of Calcium Phosphates - BaTiO ₃ Composite Scaffolds
ANM10	Chi-Jung Chang	Metal wire-mesh supported flower-like BiOBr as immobilized photocatalysts with enhanced photocatalytic degradation activity
ANM11	Samia Kosa	Direct Hydroxylation of Benzene over Cu-Exchanged Hydroxy-Sodalite
ANM12	Anchu Ashok	Shape controlled three dimensional flower shaped copper nanostructure and its catalytic activity
ANM13	Yi-Lung Cheng	Comparison of Electrical Characteristics and Reliability for Various Low Dielectric Constant Dielectric Films
ANM14	T. Rozmanowsk	Methanol electrooxidation at NiCl ₂ -FeCl ₃ -graphite intercalation compound affected by ozone treatment

ANM15	Chia-Yu Su	Development and Characterization of Lecithin Stabilized Polymeric Nanocarriers for Improving Efficacy of Chemotherapy in CT-26
ANM16	Małgorzata Osińska	The electrochemical performance of graphite intercalation compound-doped carbon xerogels
ANM17	A. Zhukeshov	The powders and coatings produced by pulsed arc plasma accelerator
ANM18	M.A. Pietrzyk	ZnO/ZnMgO quantum wells in ZnMgO nanocolumns on r- and c-plane Al ₂ O ₃ substrates: growth conditions and optical properties
ANM19	Snejana Bakardjieva	2D-TiO ₂ Photocatalysts Including Nanocavities and Metallic Silver Nanoparticles
ANM20	Martina Urbanova	Liquisolid Drug Delivery Systems Based on Mesoporous Silica Particles
ANM21	Jiri Brus	Transferring Lithium Ions in Nanochannels of Hybrid MIL 53(Al)@[LiCoD] MetalOrganic Frameworks
ANM22	Yasuhisa Omura	Measuring Impact of Light on Resistance of Non-doped ZnO Films
ANM23	Min-sook Yu	Development of the roll to roll gravure coater for printed pouch of Battery
ANM24	Min Guo	Effect of SrI ₂ substitution on the perovskite film formation and its photovoltaic property via two-step spin-coating method
ANM25	Natalia Fernández-Delgado	Colloidal Core/shell QDs specimen preparation for Atom Probe Tomography
ANM26	Natalia Fernández-Delgado	Analysis of Small Colloidal QDs by HAADF-STEM
ANM27	Alexey Sherchenkov	Mechanical Properties and Adhesion of Ge ₂ Sb ₂ Te ₅ Thin Films for Phase Change Memory Application
ANM28	Yung Pin Tsai	Photocatalytic decolorization of dye by Ag-Fe/TiO ₂ induced by irradiation of visible light
ANM29	Fwu-Long Mi	Algae Polysaccharide/Peptide Complex Nanoparticles for Inhibition of Angiogenesis
ANM30	Alexey Yakubov	Influence of substrate thermal conductivity on the crystallization process of Ge ₂ Sb ₂ Te ₅ thin films by nanosecond single laser pulse
ANM31	How Tseng	Decellularized Plant Extracellular Matrices as a Scaffold for Tissue Engineering
ANM32	Denis Mihaela Panaitescu	Design of nanocellulose aerogels by functionalization and cross-linking
ANM33	Ana Amaral	Dependence of InOx and ITO properties produced by Plasma Enhanced Reactive Thermal Evaporation on Temperature Deposition
ANM34	Victor Y. Zenou	Effect of annealing (treatment) on properties of Sc doped TiO ₂ nanoparticles
ANM35	Sang-Chul Jung	Preparation of Silicon oxide - Carbon Composite from Benzene and Trimethoxy Phenylsilane by Liquid Phase Plasma Method for Supercapacitor Applications
ANM36	José Edgar Alfonso O	Influence of Si in the Optical and electrical properties of nanostructured TIALSiN Films deposited Via Sputtering
ANM37	Jhon Jairo Olaya Florez	Influence of deposition current in the optical and electrical properties of nanostructured TiWSiN films deposited via co-sputtering
ANM38	Heiddy Paola Quiroz Gaitán	Synthesis Temperature Dependence on Magnetic Properties of Cobalt Doped TiO ₂ Thin Films for Spintronic Applications
ANM39	Giin-Shan Chen	Fabrication of Porous Anatase TiO ₂ -WO ₃ Films on Sodalime Sheet Glass with Enhanced Photoactivity
ANM40	Maeum Han	Carbon nanotube polymer sponge for self-powered electronic systems
ANM41	Daewoong Jung	Carbon nanotube yarn-based wearable sensor

ANM42	Jung-Hyung Lee	Preparation and Characterization of Nanocomposite Coating on Aluminum Alloy by Plasma Electrolytic Oxidation
ANM43	Kwang-Hu Jung	Corrosion Characteristics of 9Cr Martensitic Steel dispersed with Nanometer-scale Carbonitride under SO ₂ gas
ANM44	Seong-Jong Kim	Effect of Applying Electric Charge on Corrosion Characteristics of Anodized Al Alloy
ANM45	Il-Cho Park	Evaluation of Cavitation-Erosion Resistance for Ni-P Electroless Plated Gray Cast Iron in Natural Seawater
ANM46	Dubkov Sergey	Optimization of nanostructures based on Au, Ag, Au-Ag nanoparticles formed by thermal evaporation in vacuum for SERS-applications
ANM47	Piotr Krawczyk	Thermal exfoliation of electrochemically obtained graphitic materials
ANM48	Pawel Jarka	Study of dye sensitized solar cells photoelectrodes consisting of ZnO/TiO ₂ /Bi ₂ O ₃ nanostructures
ANM49	Gna Ahn	Synthesis of Triangular Ag-NanoPrims and Diagnostic Application for Thyroid dysfunction
ANM50	Ioana Chiulan	Cellulose/ethylene glycol methyl ether acrylate 3D structure with controllable physical properties
ANM51	Anderson Dussán Cuenca	Evidence of the Berreman Effect in TiO ₂ :Co Thin Layers Deposited by DC Magnetron Co-Sputtering: A correlation Between Optical Properties and LO-TO Splitting Modes
ANM52	Ilya Gavrilin	Influence of thermal treatment on the morphology and composition of Ge nanowires formed by electrochemical deposition
ANM53	Hanna Maltanova	Rhodamine-loaded TiO ₂ particles for detection of polymer coating UV degradation
ANM54	Alexey Dronov	Morphology and structure features of carbon-containing anodic TiO ₂ nanotubes formed using ethylene glycol based electrolyte at various temperatures
ANM55	Shubhangi Madan	Adsorption dynamics of Congo red dye removal using ZnO functionalized high silica zeolitic particles
ANM56	Wagd Ajeeb	Hydraulic and Heat transfer behavior of MWNT nanofluids in Micro-channels
ANM57	Raimonds Meija	Resonance assisted NEM switch ON voltage reduction
ANM58	Monica Cerquido	Ag thin film sulfurization for resistive switching applications
ANM59	Lijian Meng	Study of structural properties and phase transitions of Bi ₂ O ₃ films prepared by rf reactive magnetron sputtering
ANM60	Verónica Henao-Holguín	Gas-Phase Derivatization of Multi-Walled Carbon Nanotubes with Riboflavin Sodium Phosphate for Collagen Crosslinking
ANM61	Margaux Desseigne	Gold decorated nanostructured WO ₃ for high performance photocatalysis in UV-Vis light irradiation
ANM62	Margaux Desseigne	Metal-Oxides Decorated Graphene Materials for Supercapacitors
ANM63	Críssia Fontainha	X-ray shielding: polymeric composites made of P(VDF-TrFE) copolymers filled with 3100 and cheap NTCs
ANM64	Cátia R. S. Rodrigues	Active Pressure-Sensitive Triboelectric Insole for Real-Time Activity Monitoring
ANM65	Belkacem Nessark	New electrochemical biosensor for the direct detection of interleukin10 (IL-10) - an anti-inflammatory cytokine
ANM66	Olga Karavai	Strontium ferrite based catalyst for internal combustion engines
ANM67	Daewoong Jung	Annealing effect on gas sensing property of carbon nanotube sheet
ANM68	Martina Jezkova	Preparation of Gold Nanoaggregates for Biomedical Applications

ANM69	Libor Kobera	New experimental insight into the nanostructure of zinc-boron-imidazolate frameworks (ZBIF-1):
ANM70	Fumihito Nishimura	Nano etching of Si wafer using F2 gas
ANM71	Seung-Pyo Kim	Surface Morphologies of Ti-Ta-Ag-Pt Alloy after Nanotube Formation
ANM72	Victoria E. García-Vera	The role of Ca(OH) ₂ nanoparticles as consolidating and protective coatings to extend the durability of earthen materials
ANM73	Han-Cheol Choe	Formation of Bone-like Apatite on the PEO-treated Ti-6Al-4V Surface with Nano-sized Bioactive Substance
ANM74	Ji-Min Yu	Cell Culture on the Nano-sized and Functionalized Ti-6Al-4V Alloy by Plasma Electrolytic Oxidation
ANM75	Jin Woo Jo	Synthesis of Organic Electrophoresis Particle using high-refraction coating materials
ANM76	Chang Hwa Woo	Fabrication and Characterization of Nano Color Particles for Electronic Paper
ANM77	Malwina Gabryel	Time influence of stabilization of silver nanocolloids reduced by NaBH ₄
ANM78	Malwina Gabryel	Complexation in binary systems including Cu(II) ions and phosphoethanolamine
ANM79	Julia Micova	Surface-Modified Zinc Oxide Nanostructures with Conjugated Polymer
ANM80	Eurico Felix Pieretti	Scanning Vibrating Electrode Technique Applied to Localized Corrosion Evaluation of Odontologic Devices
ANM81	Han-Cheol Choe	Nano-particle Observation on the Pore-formed Ti-6Al-4V Alloy by PEO-treatment in Solution Containing Si and Mg Ions
ANM82	Lenka Pazourkova	Preparation of calcium deficient hydroxyapatite on the monoionic form of montmorillonite by precipitation and sonication
ANM83	Askerbay Aktanberdi	Latent fingerprint detection with luminescent Y ₂ O ₃ :Eu ³⁺ nanoparticles
ANM84	Murat Tleukhanov	Preparation of fluorescent silica nanoparticles using a hydrothermal method
ANM85	Dariusz Lukowiec	Catalytic activity of non-spherical shaped magnetite nanoparticles in degradation of Sudan I, Rhodamine B and Methylene Blue dyes
ANM86	Daria. I. Tishkevich	Morphology-dependent wettability of membranes based on porous alumina
ANM87	Buthaina Albanyan	Structure-Activity Effects in Self-Assembled Multivalent (SAMul) Polyanion Binding – Adaptive and Shape-Persistent Multivalency
ANM88	Jinyu Zhang	One-step homogeneous precipitation method synthesis of Nb-Mn bimetallic oxide for high-performance lithium ion battery
ANM89	Askar Zhunisbekov	Obtaining of copper nanoparticles in combined RF + DC discharge plasma
ANM90	Askar Zhunisbekov	Obtaining hydrophobic and hydrophilic surfaces in atmospheric pressure plasma
ANM91	Alexandru Pascu	Laser Welding of Stainless Steel Using SiO ₂ -CNTs Active Flux
ANM92	Mrunal Patil	Active Lipid Based Nanomedicine: Kicking Out Drug Combination Therapy and Overcoming Antifungal Resistance
ANM93	Heejoon Ahn	Polypyrrole/CNT-web Paper for High Performance Flexible and Stackable Allsolid-state Supercapacitors
ANM94	Sasan Yazdani	Replacing Martensite with Nanobainite in Carburised Steel for Better Wear Performance
ANM95	Críssia Carem Paiva Fontainha	Preparation and characterization of PVDF / BaSO ₄ composites for use in X rays shielding
ANM96	Katarzyna Balin	Effect of Eu doping on electronic and crystallographic structure of Bi ₂ Te ₃ thin films

ANM97	Jaíne Webber	pKa Values of Surface Sites on α -Al ₂ O ₃ Determined by Potentiometric Titration
ANM98	Anna Nowak	Physicochemical studies of copper and silver nanoparticles and their combination in metal-oxide matrix
ANM99	Alexey Dronov	Synthesis mechanism in availability of electromagnetic field and large temperature gradients and properties of ceramics based ..
ANM100	Malwina Liszewska	Silver diffusion in metal-titania core-shell nanostructures
ANM101	Bartosz Bartosewicz	Synthesis and Characterization of Noble Metal–Titania Core–Shell Nanostructures with a Tunable Shell Thickness
ANM102	Mourad Boutahir	Raman study of phosphorene nanoribbons
ANM103	San-Yuan Chen	Neural Probe with Fucoidan Immunoparticles-Based Interface for Detecting Amyloid-beta in Alzheimer's Disease
ANM104	Nivas Babu Selvaraj	Sol-gel synthesized plasmonic nanoparticle and their integration into dye sensitized solar cells
ANM105	Sahil Goel	8-hydroxyquinolinium hydrogen squarate crystal: a new piezoelectric and NLO active crystal
ANM106	R.Devaraj	Fabrication and Characterization of Metal-Metal Composites Reinforced with AlCoCrCuFe High Entropy Alloy
ANM107	Yuan-Chung Tsai	Site-Specific Delivery of Hybrid Upconversion Nanoparticles for Photo-Activated Multimodal Therapies of Glioblastoma
ANM108	D. Pukazshelvan	Chemically modified zirconia as an effective additive for magnesium hydride
ANM109	D. Pukazshelvan	Electrochemical performance of titania-activated carbon nanocomposite electrodes for sodium ion rechargeable batteries

AMM-18 July, 17.00-18.00 hours		
AMM01	Fares Almomani	Toluene Oxidation Over NiO Nano-catalyst
AMM02	Fredy Rodriguez	Mn ₂ Sb ₂ and Mn ₂ Sb phases effect on magnetic properties of GaMnSb thin films grown by DC Magnetron co-Sputtering
AMM03	Jose Malta	Synthesis and characterization of nanostructured Cu ₂ OSeO ₃ , a topological chiral magnet
AMM04	Heiddy P. Quiroz	Synthesis Temperature Dependence on Magnetic Properties of Cobalt Doped TiO ₂ Thin Films for Spintronic Applications
AMM05	Crissia Fontainha	Spectroscopy Characterization of PVDF/Fe ₃ O ₄
AMM06	Daniel Merkel	In situ study of electric field controlled ion transport in the Fe/BaTiO ₃ interface
AMM07	Fares Almomani	Heavy metal ions from industrial wastewater using magnetic nanoparticles (MNP)
AMM08	Simona Muntean	Combustion Synthesis of Fe ₃ O ₄ /Ag/C Nanocomposites and Application for Dyes Removal from Multicomponent Systems
AMM09	Sílvia Meneses	Magnetoresistance due to pinned uncompensated magnetization in IrMn
AMM10	Chahra Meftah	Structural stability and magnetic properties of NdCu ₄ Au: a DFT study
AMM11	Maryia Baranova	Exchange Interaction in Cr ₂ Ge ₂ Te ₆ Monolayers
AMM12	Yun Teng	Folate-Conjugated Au/Fe ₂ O ₃ Nanoparticles Based Nanoprobe for Targeted Detection of Hela Cell
AMM13	Yun Teng	Fabrication of IONP-Hollow Mesoporous Silica Sphere (IONP-HMSs) Composite and Their Drug Delivery Application
AMM14	E. Lora da Silva	Ab-Initio Study of the Structural, Electronic and Phonon properties of Pr ₂ O ₂ SO
AMM15	E. Lora da Silva	Theoretical study of Sb ₂ Se ₃ , Sb ₂ S ₃ and Bi ₂ S ₃ under compression

AMM16	Abhilash J. Joseph	Crystal growth and characterizations of flux grown MPB compositions of ferroelectric PZN-PT and PMN-PT single crystals
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ANE-18 July, 17.00-18.00 hours		
ANE01	Leonardo Kleber Castelano	The Quantum Permutation Algorithm in a Qutrit formed in Quantum Dots
ANE02	Adam Lubos	Optical properties and surface morphology of Organic Light Emitting Diodes based on oxygen perovskites
ANE03	Bartłomiej Hrapkiewicz	Characteristics of PLZT and PZO oxygen perovskite organic solar cells
ANE04	Jurate Simokaitiene	Diphenylethenyl-Substituted Triphenylamines as Effective Charge-Transporting Materials for Optoelectronics
ANE05	Fang-Cheng Liang	Ultra-Performance Polymer-Based of Inorganic Perovskites for Light-Emitting Diodes
ANE06	Dong Jun Lee	Metal Transparent Electrode Optimized for Micro-cavity Effect of OLED
ANE07	Chan Hyuk Park	Highly efficient and simplified thermally activated delayed fluorescence organic light-emitting diodes
ANE08	Jae Geun Kim	Enhanced efficiency of organic light-emitting diodes by inserting nano-sized dot pattern by laser interference lithography
ANE09	Byeonggon Kim	Enhanced Color Purity Polymer Light Emitting Device Using Coplanar Chain Conformation of Conjugated Polymers by Adopting Solvent Vapor Exposure
ANE10	Issam Oueslati	Calixarene functionalization of TiO ₂ nanoarrays: a smart strategy for enhancing the sensor versatility
ANE11	WonJe Oh	Optimization of solar cell electrode structure for shingled module
ANE12	Jisu Park	Optimization of Electrically Conductive Adhesives for High Density Modules
ANE13	Kheyar Camelia	Extension of the light absorption range of TiO ₂ thin films toward visible light range
ANE14	Fayçal Djeflal	Performance Evaluation of Nanoscale Halo Dual Material Double Gate SiGe MOSFET Using 2D Numerical Simulation
ANE15	Nivas Babu Selvaraj	Sol-gel synthesized Curcumin/silver doped Zirconia–Silica Matrices for DSSC Applications
ANE16	Agata Sotniczuk	Electrochemical behavior of modern Ti-based materials for biomedical applications
ANE17	Halina Garbacz	A method for further enhancement of nanotitanium cellular response

AGM- 18 July, 17.00-18.00 hours		
AGM01	Leila Rouaiguia	Adsorption of NO and CO on graphene decorated with Li, B, Si and Al : DFT and Dispersive Forces correction
AGM02	Kang Bok Ko	Graphene based transparent and flexible ultraviolet photoconductors
AGM03	Chang-Hee Hong	Characterization of boron-doped reduced graphene oxide for solar cell application
AGM04	Sónia O. Pereira	Diamond-graphite nanoplatelet electrodes for electrochemical label-free biosensors
AGM05	Enrique Giménez	Effect of Synthesis Conditions on CO ₂ Capture of Ethylenediamine-modified Graphene Aerogels
AGM06	Enrique Giménez	Eco-friendly graphene aerogels for oil/water separation

AGM07	Ming-Wei Lee	Gellan gum/ graphene/doxorubicin microspheres as potential multifunctional embolic agent
AGM08	Luiza Lima	Characterization of Commercial Graphene-based Materials for Application in Thermoplastic Nanocomposites
AGM09	Valentin Petrov	Single-Walled Carbon Nanotubes Mode-locked Tm:MgWO ₄ Laser
AGM10	Faycal Djefal	A new Graphene based-phototransistor for high-performance infrared sensing applications
AGM11	Adriana Marinoiu	High-performance oxygen reduction reaction and demonstration of the durability of the catalytic system in PEM fuel cell
AGM12	Javier Molina	Hybrid photocatalysts of ZnO obtained by waste valorization combined with reduced graphene oxide
AGM13	Rumiana Kotsilkova	Study on the Shelf-life of PLA Filament with Graphene and Carbon Nanotubes
AGM14	E. Lora da Silva	Electronic and Phonon Instabilities in Bilayer Graphene Systems under Applied External Bias
AGM15	R. Devaraj	Corrosion resistance behaviour of reduced graphene oxide /epoxy nanocomposite coating for Magnesium.

APM, 18 July, 17.00-18.00 hours		
APM01	Victor Balcão	Hybrid biopolymer-ionic liquid hydrogels for the transdermal delivery of biomacromolecules
APM02	Naohiro Terasawa	High-performance ionic and non-ionic fluoropolymer/ionic liquid (with quaternary cation and perfluoroalkyltrifluoroborate anion) gel hybrid actuators with electrochemical window of 6 V
APM03	Chien-Ming Hsieh	Optimization and Characterization of PD-L1 siRNA Targeted Delivery from Zein Nanoparticles
APM04	Sarani Zakaria	Dimensional Titanium Oxide Nanowires
APM05	Lingyun Wang	Enhanced Performance of Polymer based Mechanical Energy Harvester via Morphology Control
APM06	Maxim Silibin	Preparation, Stability and Local Piezoelectrical Properties of P(VDFTrFE)/Graphene Oxide Composite Fibers
APM07	Rohit Kandulna	Synthesis and performance evolution of PPY-TiO ₂ -GO nanocomposite as electron transporting layer material for OLED devices
APM08	Tze-Wen Chung	Investigating hyaluronic acid/silk fibroin interpenetration network hydrogel for intervertebral disc tissue engineering
APM09	Sara Haoue	Green synthesis of nanocomposite Polyethylene glycol dimethacrylate/ Algerian clay (Maghnite-CTAB)
APM10	Hodahaifa Dardar	Polylimonene/Clay Green Nanocomposites Prepared With Algerian Modified Clay (Maghnite-CTAB)
APM11	Ling-Chun Chen	Lecithin-Stabilized Polymeric Micelles (LsbPMs) for Delivering Quercetin: Pharmacokinetic Studies and Therapeutic Effects of Quercetin Alone and in Combination with Doxorubicin
APM12	Mayara de Lima	Study of thermal and morphological properties of PVDF/MMT based composites for offshore applications
APM13	Asta Griguceviciene	Suitability of Difunctional Esters for Curing Nanostructured Rubber Powder with Polyurethane Adhesives
APM14	Bianca Maranescu	Phosphonic Acid vs Phosphonate Metal Organic Framework Influence on Mild Steel Corrosion Protection

APM15	Adel Len	Polyester - carbon nanotube – graphite composites studied by small angle neutron scattering
APM16	Ginka Exner	Multilayered Polyelectrolyte Structures with Potential for Intracavity Drug Delivery System
APM17	Iga Jankowska	Cellulose Materials as a Biopolymer Matrix in Synthesis of New Solid State Proton Conducting Composites
APM18	Iga Jankowska	Polymeric Proton Conductor Based on Pure Cellulose Fibers Functionalized with Imidazole Molecules
APM19	Kinga Kepska	Poly(3-hexylthiophene) synthesised via GRIM method: investigation of molecular weight determination
APM20	Tina Maver	Evaluation of Influence on the Skin Regeneration of Different Materials with in situ Included Growth Factors or/and Skin Cells
APM21	Anna Facibeni	Facile synthesis in-situ of AgNPs-polymer-Graphite nanocomposite
APM22	Carmen M. Rangel	Nafion® phosphonic acid composite membranes for proton exchange membranes fuel cells
APM23	Gisele Boiteux	Electroactive organic-inorganic polymer system based on thermoset and thermoplastic oligomers and lithium perchlorate salt
APM24	El Montassir Dahmane	Preparation, characterization and antioxidant activities of biocomposite chitosan film containing Syzygium aromaticum. essential oil
APM25	El Montassir Dahmane	Physicochemical properties of α -chitin whiskers-reinforced chitosan nanocomposite films
APM26	Yun Teng	Fe ₂ O ₃ -SiO ₂ @ poly(acrylamide-co-N,N-diethylacrylamide)/poly (N,N-diethylacrylamide) Interpenetrating Network (IPN) Nanogels

HE-18 July, 17.00-18.00 hours		
HE01	Oh-Shim Joo	Photoelectrochemical Hydrogen Production Using Bulk Heterojunction Structure of Cu ₂ O/TiO ₂ Photocathode
HE02	Rahul Bhosale	Mg-ferrite Based Thermochemical H ₂ O/CO ₂ Splitting Cycle for H ₂ /CO Production
HE03	Rahul Bhosale	Thermodynamic Efficiency Analysis of H ₂ Production via a Two-Step Sm ₂ O ₃ /SmO Based Thermochemical H ₂ O Splitting Cycle
HE04	Anchu Ashok	Cerium Sulfate – Cerium oxide based Thermochemical Water Splitting Driven by Concentrated Solar Power
HE05	Anchu Ashok	H ₂ and Syngas Production via Solar Driven CH ₄ Reforming and H ₂ O Splitting via MgO/Mg Based Redox Reactions
HE06	Anand Kumar	Single step solution combustion synthesis of NiO/Co ₂ O ₃ catalyst for ethanol decomposition
HE07	Ting-Kan Tsai	Preparation and hydrogen separation of electroless Pd membrane on ultrasonicassisted-activated alumina support
HE08	Leila Rouaiguia	DFT and Wagner-Schottky studies of Hydrogen insertion in Fe ₂ Nb Laves phases
HE09	Zuo-Yu SUN	Effects of Turbulence on Explosion Characteristics in a Stoichiometric Syngas (the mixtures of H ₂ /CO) with High-BTU
HE10	Zuo-Yu SUN	Experimental Study on the Explosion Indices in Homogeneous H ₂ /CH ₄ /Air Mixtures
HE11	Biaopeng Li	Effect of graphene on the performance of nickel foam-based CoNi nanosheets anode catalyzed direct urea-hydrogen peroxide fuel cell
HE12	A.V. Shlyakhtina	Ca and Mg doped Ln ₂ Zr ₂ O ₇ (Ln = Sm, Gd) pyrochlores: oxygen-ion and proton conductivity

HE13	Valentina Voronkova	Physical properties and polymorphism of F-containing rare-earth fluorite-like molybdates with structure $\text{Nd}_5\text{Mo}_3\text{O}_{16}$ type doped with sodium
HE14	Valentina Voronkova	Polymorphism and Conductivity of Bi_2O_3 -Based Fluorite-Like Compounds in Bi_2O_3 - Nd_2O_3 - MoO_3 System
HE15	Elena Anikina	Investigation of hydrogen interaction with $\text{Ti}_{0.9}\text{Zr}_{0.1}\text{Mn}_{1.3}\text{V}_{0.6}$ by calorimetric method
HE16	Türkan Kopaç	An analysis of the microporous structure of KOH/boron modified activated carbons
HE17	M. Jesus Sanchez-M	Effect of pressure and temperature on the gasification of dodecane with steam and supercritical water and consequences for H_2 production
HE18	Catarina Serafim	Development of a chamber for in-situ powder diffraction under hydrogen atmosphere at controlled pressure
HE19	Houria Boumaaraf	Management of hybrid system operating in grid-connected and standalone mode
HE20	Karolina Kordek	Cobalt doped low rank coal based catalyst for electrochemical water splitting
HE21	Souad Abderafi	Techno-economic evaluation of distillation-pervaporation process for bioethanol production
HE22	Jong-Sang Youn	The Effect of Crystallinity and Morphology of Carbon Electrode for Hydrogen Production
HE23	Sang Yong Nam	The composite membranes of poly(phenylene oxide) and polyethylene support containing quaternary ammonium for alkaline anion exchange fuel cell
HE24	Ji Hyeon Kim	Imidazolium-Functionalized Poly(ether-ether-ketone) for Alkaline Membrane Fuel Cell
HE25	Ji Hyeon Kim	Manufacture and Characterization of Polybenzimidazole-Multiwall Carbon Nanotubes Composite Membrane for Gas Separation
HE26	Sangmin Jeong	Exploration of electrodeposited palladium on directly grown graphene/stainless steel (SS 304) substrate for hydrogen production application
HE27	Tae Hyun Kim	The effect of controlling hydrophilic-hydrophobic block ratio in quaternary ammonium functionalized poly(ether sulfone ketone)s as anion exchange membranes
HE28	Javier Molina	Electrochemical synthesis of platinum nanoparticles on gas diffusion layers as cathodes for PEM electrolyzers
HE29	Nivas Babu Selvaraj	Neutron imaging studies of a MH storage tank during operation
HE30	Julio J. Conde	Superhydrophobic electrosprayed deposits: breakthrough method for water management in PEMFCs
HE31	Nivas B. Selvaraj	Hydrogen concentration in TiZrNi ribbon