15th International Conference on Nanosciences and Nanotechnologies (NN18), 3-6 July 2018, Thessaloniki, Greece

PRELIMINARY PROGRAM

08:00 -	**Registration**						
08:45-09:00	**Welcome and Opening Remarks** **S. Logothetidis,** NN18 Chairman **Room: Crystal Hall**					**Workshop on EU Projects on Nanotechnologies & Advanced materials for OPVs and Perovskites (ISFOE18 & NN18) (Room: Timber Hall 1)** **Chair: A. Laskarakis, S. Perraud**	
09:00-09:30 KEYNOTE	**Massive Scale-Up of Cluster Beam Deposition (CBD) to produce Novel Functional Nanomaterials** **Richard E. Palmer,** *Swansea University, UK*					**09:00-09:15**	**Introduction to NAMEC** **S. Perraud** *CEA LITEN, France*
09:00-11:00	**WS1: Nanoelectronics 1** **Chair: D. G. Georgiadou** **Room: Crystal Hall**	**09:30-11:00**	**WS2: Thin Films 1** **Chair: R Pugin** **Room: Dock Six 1**	**09:30-11:00**	**Graphene 1 (Joined Session of NN18 & ISFOE18)** **Chair: R. Arenal** **Room: Dock Sic 2**	**09:00-09:15**	**Project FOF SmartLine: Smart In-line metrology and control for boosting the yield and quality of high-volume manufacturing of Organic electronics** **A. Laskarakis** *Nanotechnology Lab LTFN, Department of Physics, Aristotle University of Thessaloniki, Greece*
09:30-10:00 INVITED	**Towards anisotropically etched silicon-based rectangular and triangular nano-FETs** ***S. Rollo*** *Luxembourg Institute of Science and Technology, Luxembourg*	**09:30-10:00 INVITED**	**Control of nanostructures on silicon surfaces** H. Asaoka *Japan Atomic Energy Agency, Japan*	**09:30-10:00 INVITED**	**2D-materials-based composites for energy applications** Dr. Francesco Bonaccorso *Istituto Italiano di Tecnologia, Italy*	**09:30-09:45**	**Multiscale modelling and characterization to optimize the manufacturing processes of Organic Electronics materials and devices** **F. Logothetidi** *Hellenic Organic & Printed Electronics Association (HOPE-A), Greece*
						09:45-10:00	**Horizon 2020 CHEOPS – Production technology to achieve low Cost and Highly Efficient phOtovoltaic Perovskite Solar cells** **A. Walter** *CSEM SA, PV-Center, Jaquet-Droz 1, CH-2000 Neuchâtel, Switzerland*
10:00-10:30 INVITED	**Memristors with optically tunable STDP synaptic plasticity: a route to hierarchical control in artificial intelligent systems** N.T. Kemp *University of Hull, United Kingdom*	**10:00-10:15**	**Growth of nitrides on graphene/SiC** B. Pecz *Hungarian Academy of Sciences, Hungary*	**10:00-10:30 INVITED**	**A 2D material based platform for wireless electronics and sensing** George Deligeorgis *FORTH IESL, Greece*	**10:00-10:15**	**InSCOPE: Open-access pilot line to accelerate industrial uptake of hybrid printed electronics** **G. Arutinov** *Holst Centre The Netherlands*
		10:15-10:30	**An innovative, one step processing of functional nanocomposite coatings prevents the operator from exposure to nanoparticles** C. Vahlas *Université de Toulouse, France*			**10:15-10:30**	**Project TranspEnergy: color-on-demand solar modules** Rana Adel *Eurecat, Spain)*
10:30-10:45	**Innovative regulatory monitoring by nanostructured MOX sensors from the iSCAPE project for Improving the Smart Control of Air Pollution in cities** *A. Skouloudis* *Joint Research Center, European Commission, Italy*	**10:30-10:45**	**European funding (ITN under Horizon 2020) and project management** Gabriela Blumberger Bavarian Research Alliance GmbH, Germany	**10:30-10:45**	**Epitaxial graphene sensor for ultra-low NO2 concentrations for environmental monitoring** C. Melios *National Physical Laboratory, UK*	**10:30-10:45**	**MAESTRO Marie Skłodowska-Curie Action ITN: Making Perovskites Truly Exploitable** A. Kaltzoglou *NCSR Demokritos, Greece*
10:45-11:00	**Modeling and Simulation of Tunable Software-Defined Metasurfaces** A. Pitilakis *Foundation for Research and Technology Hellas, Greece*	**10:45-11:00**	**Digital, Area-Selective µPLASMAPRINT Surface Engineering** Bilel RAIS, *InnoPhysics B.V, the Netherlands*	**10:45-11:00**	**The effect of concentration of plasma functionalized graphene nanoplatelets on the rheological and print performance of conductive inks** A. Claypole *Swansea University, UK*	**10:45-11:00**	

Tuesday 3 July 2018

11:00 – 11:30	**Coffee Break** **NN18 Poster 1 (SEE POSTER PROGRAMME) – Exhibition-Networking - EXPO FORUM**

11:30-12:00	**Keynote Talk** **Chair: K. Teshima** **Room Crystal Hall**			**11:30-12:00**	**Keynote Talk** **Chair: S. Tsimikli** **Room Timber Hall 2**		
11:30-12:00 KEYNOTE	**High-performance, heteroepitaxial, nanolaminate device layers on single-crystal-like, artificial substrates and controlled self-assembly of nanostructures within device layers for wide-ranging electrical and electronic applications** A. Goyal *University at Buffalo, USA*			**11:30-12:00 KEYNOTE**	**2D semiconductor optics and (opto-) electronics** T. Mueller *Vienna University of Technology, Austria*		
11:30-13:30	**WS1:Energy 1** **Chair: K. Teshima** **Room: Crystal Hall**	**12:00-13:30**	**WS2: Thin Films 2** **Chair: E Gogolides** **Room: Dock Six 1**	**11:30-13:45**	**Graphene 2 (Joined Session of NN18 & ISFOE18)** **Chair: F. Bonaccorso, G. Deligeorgis** **Room: Dock Six 2**	**12:00-13:30**	**I3D 1 (Joined Session of NN18 & ISFOE18)** **Chair: S. Tsimikli** **Room: Timber Hall 2**
12:00-12:30 INVITED	**Deviating from Metal-Complexated Dyes in DSSCs** Solon Oikonomopoulos *Norwegian University of Science and Technology, Norway*	**12:00-12:30 INVITED**	**Organic photodetectors – influence of space charge limited current and unbalanced mobilities on device parameters** Beata Luszczynska *Lodz University of Technology, Poland*	**12:00-12:30 INVITED**	**Carbon and Related Nanomaterials: Atomic Structural and Configuration Studies** R. Arenal *INA & Fundacion ARAID, Spain*	**12:00-12:30 INVITED**	**Hybrid electronics integration by inkjet technology** M. Grooten1, DoMicro BV *Luchthavenweg 10, 5657EB Eindhoven, The Netherlands*
12:30-12:45	Embedded Graphene Nanofibers in Perovskite layer of Perovskite Solar Cell Wallace Woon-Fong Leung *Hong Kong Polytechnic University, Hong Kong*	**12:30-12:45**	**Formation of Olygoglicine based SAMs on Au and Ag substrates** A. Grabarek *Jagiellonian University, Poland*	**12:30-13:00 INVITED**	**2D WSe2: Mechanical Properties and Processing with Vapour XeF2** Vasileios Koutsos *University of Edinburgh, United Kingdom*	**12:30-12:45**	**3D printed supercapacitors from 2D material inks** **A. Panagiotopoulos** *Department of Materials, Imperial College London, Royal School of Mines, United Kingdom*
12:45-13:00	**Novel Nanofiber Photocatalyst in Purifying Air and Water** **Wallace Woon-Fong Leung** **Hong Kong Polytechnic University, Hong Kong**	**12:45-13:00**	**Relative Stability of Thiol and Carboxylic based SAMs on Ag(111) substrate.** M.Szwed *Jagiellonian University, Poland*			**12:45-13:00**	**3D Printed Imaging Phantoms for Smarter SPECT Algorithm** J. Babiuch-Hall 1 Faculty of Physics, University of Warsaw, *Poland* *2 Dept Medical Physics, Maria Skłodowska-Curie Institute of Oncology Warsaw, Poland*
13:00-13:15	**Mn(II)-Doped Carbon Dot- Polyaniline Electrode for Supercapacitor Applications** Rükan GENÇ *Mersin University, Turkey*	**13:00-13:15**	**Nanocomposite Thin-Layer Coatings** Y. Auchynnikau, *Yanka Kupala State University of Grodno, Belarus*	**13:00-13:15**	**Graphene / titania architectures for enhanced photocatalytic activity** D. De Angelis *University of Trieste, Italy*	**13:00-13:30 INVITED**	**Laser writing of nanomaterials for wearable sensors** Alexandra Palla Papavlu *National Institute for Laser, Plasma & Radiation Physics (INFLPR), Romania*
13:15-13:30	***Multijunction solar cells concept based on GaP/Si nanostructures*** ***A.S. Gudovskikh*** *St. Petersburg Academic University RAS, Russia*	**13:15-13:30**		**13:15-13:30**			
13:30-13:45	**Influence of deposition conditions on the interface properties of GaP/Si heterojunction solar cells fabricated by low temperature plasma technology** A.S. Gudovskikh ***St. Petersburg Academic University RAS, Russia***						

13:45 – 15:00	**Lunch Break** **NN18 Posters (SEE POSTER PROGRAMME) – Exhibition – Networking** **BUSINESS FORUM**

15:00-17:30	**WS1: NanoPhotonics-Plasmonics** **Chair: S. Kassavetis** **Room: Crystal Hall**	**15:00-17:30**	**WS2: Thin Films 3** **Chair: B Luszczynska** **Room: Dock Six 1**	**15:00-18:00**	**Graphene 3 (Joined Session of NN18 & ISFOE18)** **(Room: Dock Six 2)** **Chair: V. Koutsos**
15:00-15:30 **INVITED**	**Plasmonic nano-gaps for light-matter interactions** *J.-S. Bouillard* *University of Hull, United Kingdom*	**15:00-15:30** **INVITED**	**Fabrication of nanostructured surfaces and components with enhanced performances or unique physical, chemical or biological properties** Raphaël Pugin *CSEM, Switzerland*	**15:00-15:30** **INVITED**	**TBA** Prof. Ilya Goykhman *Technion - Israel Institute of Technology, Israel*
15:30-16:00 **INVITED**	**Metasurfaces and the control of light at the nanoscale** *E. Almpanis* *NCSR "Demokritos", Greece*	**15:30-16:00** **INVITED**	**Self-cleaning, antibacterial, 3D nanostructured functional surfaces via plasma processing** Evangelos Gogolides *NCSR 'Demokritos', Greece*	**15:30-16:00** **INVITED**	**Nonlinear Electrodynamics of Graphene** Sergey Mikhailov *University of Augsburg, Germany*
16:00-16:30 **INVITED**	**Integrated Quantum Photonics: Exploring quantum and photonic confinements at the nano-scale** *Eli Kapon* *Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland*	**16:00-16:15**	**AlN and GaN Materials Deposition Using by Thermionic Vacuum Arc Technique** S. Pat *Eskisehir Osmangazi University, Turkey*	**16:00-16:15**	**Deep and fast free-space electro-absorption modulation in a mobility-independent graphene-loaded Bragg resonator** S. Doukas, *University of Ioannina, 45110 Ioannina, Greece*
		16:15-16:30	**Effect of temperature on Boron Carbide coating for nuclear fuel** Suna BALCI, *Gazi University, TURKEY*	**16:15-16:30**	**Carbon Dioxide Capture by Amine-Functionalized Zeolitic Imidazolate Frameworks (ZIFs), Graphene Oxide, and ZIF/Graphene Oxide Nanocomposites under Dry and Wet Conditions** G. N. Karanikolos *Khalifa University of Science & Technology, UAE*
16:30-17:00 **INVITED**	**Plasmonic nano-gaps for light emission and Raman scattering enhancements** *Ali M. Adawi* *University of Hull, UK*	**16:30-16:45**	**Low-cost production of Cu-doped NiO thin films and its electrochromic properties** Y.E. FiratUludag University, Turkey	**16:30-16:45**	**Growth of single-layer Graphene with Chemical Vapor Deposition on 6" copper substrates, characterization and transfer to arbitrary substrates** V. Kyriazopoulos *Aristotle University of Thessaloniki, Greece*
		16:45-17:00	**Synthesis and characterization of Al-doped Polypyrrole (PPy) thin films via electrodeposition method** Y.E. Firat *Uludag University, Turkey*	**16:45-17:00**	**Hydrogen storage in carbon via water splitting** L. Ciammaruchi *ICFO, Spain*
17:00-17:30 **INVITED**	**Lattices of Spin-polarised Interacting Polariton Condensates:A novel quantum simulator platform** P. G. Savvidis University of Crete, Greece & ITMO University, Russian Federation			**17:00-17:15**	**Biodegradable and Biocompatible Black Phosphorus Field Effect Transistors for Green Electronics** **Min-Kyu Song** *Yonsei University & Yonsei Institute of Convergence Technology, South Korea*
17:30-18:00 **INVITED**	**Mid-infrared Photonics based on Quantum Cascade Lasers and Detectors** Borislav Hinkov Technische Universität Wien, Austria				

18:00 – 18:30	**Coffee Break** **NN18 Posters (SEE POSTER PROGRAMME) – Exhibition – Networking - EXPO FORUM 2**

18:30 - 20:30	**PLENARY SESSION NANOTEXNOLOGY 2018 (Room: Grand Petra)**
18:30 – 19:00	**Introduction by Prof. S. Logothetidis**, ISFOE18 & NN18 Chairman
19:00 – 19:30 **PLENARY**	**Plastic Nanoelectronics for the Internet of Things (IoT)** **Thomas Anthopoulos** *Physical Science and Engineering Division, KAUST, Saudi Arabia*
19:30 – 20:00 **PLENARY**	**Bio-responsive Hybrid Materials for Regenerative Medicine and Biosensing** **Molly Stevens** *Imperial College London, UK*
20:00 – 20:30 **PLENARY**	**Nanotechnology, 3D Printing and Organic Electronics in Automotive applications** **Ashutosh Tomar** *Jaguar Land Rover, UK*
21:00	**DRINKS & OFFICIAL DINNER (ISFOE18 & NN18) PORTO PALACE CONFERENCE CENTRE & HOTEL - ROOF GARDEN**

NN18
3-6 July 2018

Wednesday 4 July 2018

2018 nanotexnology

08:00 -	**Registration**						
	Keynote Talk **Chair K.G.Kousoulas** **Room: Dock Six 2**						**Keynote Talk** **Chair** E. Lidorikis **Room: Crystall Hall**
09:00-09:30 KEYNOTE	**3D Printing of Responsive Hydrogels and Ionogels for Biomedical Applications** Emmanuel P. Giannelis Cornell University, USA					**09:00-09:30 KEYNOTE**	**Water and organic molecules controlling opto-electronic properties of 2D materials** J. Rabe *Humboldt-Universitat zu Berlin, Germany*
09:30-11:00	**WS1: Energy 2** **Chair: S. Oikonomopoulos** **Room: Timber Hall 2**	**09:30-11:00**	**WS2: Nanoparticles 1** **Chair: Z. Popovic** **Room: Dock Six 1**	**09:30-11:00**	**WS3: Clinical Nanomedicine for CANCER** **Chair K.G.Kousoulas** **Room: Dock Six 2**	**09:00-11:00**	**Graphene 4 (Joined Session of NN18 & ISFOE18)** **Chair: E. Lidorikis** **Room: Crystal Hall**
9:30-10:00 INVITED	**Nanocrystal Innovation for Next-Generation Energy Materials ~ Novel Approaches to All-Solid-State LIBs and Solar Hydrogen Production ~** K. Teshima *Shinshu University, Japan*	**9:30-10:00 INVITED**	**Bulk Solids with Single Nanoparticle Response: Elaboration and Properties** M. Traoré *CNRS Université Paris 13, France*	**09:30-10:00 INVITED**	**Viral Immunotherapy against Melanoma and Breast Cancer** K. G. Kousoulas *Southern University A&M College, USA*	**09:30-10:00 INVITED**	**Raman and infrared active rigid-layer modes and topological boundary phonons in multi-layered materials** Ivanka Milosevic *University of Belgrade, Serbia*
10:00-10:15	**Impact of current collector and binder on the electrochemical performance of cathodic LiAl0.1Mn1.9O4 for lithium-ion batteries** Pinelopi Angelopoulou *University of Patras & Foundation for Research and Technology-Hellas (FORTH), Greece*	**10:00-10:15**	**Eco-compatible zero-valent silver/iron nanoparticles produced by coreduction: a preliminary reactivity assessment** A. Gallo *Politecnico di Torino, Italy*	**10:00-10:15 YRA Candidate**	**Infrared nano-imaging for intra-cellular cancer research and analysis of drug delivery** W. S. Hart *Imperial College London, UK*	**10:00-10:30 INVITED**	**Modeling and design of graphene-based photodetectors and modulators** **E. Lidorikis** *University of Ioannina, Greece*
10:15-10:30	**Organic Thermoelectric Energy Harvesting Wearables** C. Lekakou	**10:15-10:30 YRA Candidate**	**Seed-layer free zinc tin oxide tailored nanostructures: effect of chemical parameters** Ana Rovisco *i3N/CENIMAT, Portugal*	**10:15-10:30**	Tuning the size and composition of ferrite nanocubes towards outstanding hyperthermia performances N.Silvestri *Istituto Italiano di Tecnologia (IIT), Italy*		
10:30-10:45	**Nanocarbon Materials for High-Performance Rechargeable Batteries** Jang-Kyo KIM *Department of Mechanical & Aerospace Engineering, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong*	**10:30-10:45**	**NaHCO3 as a Modificator of SWCNTs' Membrane Structure via Spherical Crystals Formation** S. Janković *University of Banja Luka, Bosnia and Herzegovina*	**10:30-10:45**	Low-frequency vibrations of magnetic particles for tumor treatment C.Naud *Univ. Grenoble Alpes INSERM / UGA / CHU, F-38000 Grenoble, France*	**10:30-10:45**	**Mesoscopic Perspective on Quantum Hall Effects in Graphene with a P-N Junction** Nojoon Myoung *Chosun University, Republic of Korea*
10:45-11:00	**Carbonized metal organic frameworks as a promising material for highly efficient supercapacitors** E. Mijowska *West Pomeranian University of Technology, Poland*	**10:45-11:00**	**Nanoparticles with spatially distributed charge** K. Bohinc *University of Ljubljana, Slovenia*	**10:45-11:00**	Discussion	**10:45-11:00**	**Stretching graphene using electron-beam stimulated polymeric micro-muscles** F. Colangelo *Scuola Normale Superiore and CNR Istituto Nanoscienze, Pisa, Italy*

11:00-11:30	**Coffee Break** **NN18 Poster (SEE POSTER PROGRAMME) – Exhibition-Networking** **EXPO FORUM**

Wednesday 4 July 2018

11:30-13:30	**WS2: Nanoparticles 2** **Chair: M. Traoré** **Room: Dock Six 1**	**11:30-13:30**	**WS3: Nanoparticles for Clinical Applications** **Chair: V. Karagkiozaki, H.Schmid** **Room: Dock Six 2**		
11:30-12:00 **INVITED**	**Magnetic properties of iron - doped CeO2-y nanocrystals** Zoran Popovic *University of Belgrade, Serbia*	**11:30-12:00** **INVITED**	**Applications of Selected Nanoparticles in Medicine and Their Extensions Through Targeted Delivery and Controlled Drug Release** H. Schmid *Fraunhofer-Institute for Chemical Technology (ICT), Germany*	**12:00-13:30**	**Workshop on I3D 2** **Room: Crystal Hall** **Chair: L. van Langenhove**
12:00-12:15	**Features of fullerenols and endofullerenols self-assembly in aqueous solutions** Suasova M.V. *NRC Kurchatov Institute, Russia*	**12:00-12:30** **INVITED**	**Supramolecular polyelectrolyte assemblies for drug delivery** S. E. Moya *CIC biomaGUNE, Spain.*	**12:00-12:30** **INVITED**	**Inkjet printing of OLEDs – from large area to high resolution** C. Boeffel, *Fraunhofer Institute for Applied Polymer Research IAP, Germany*
12:15-12:30	**Synthesis Approaches for Managing Spectral-Kinetic Characteristics of LaF3 Nanoparticles Doped with Rare-Earth Ions** E.I. Madirov *Kazan Federal University, Russia*				
12:30-12:45	**Ceramics (Bi0.5Na0.5)TiO3 – BaTiO3 (BNT-BT) at nanometric scale – synthesis and properties –** Ciceron Berbecaru *University of Bucharest & Romanian Materials Science – Crystal Growth Society, Romania*	**12:30-13:00**	**Polymeric Nanoconstructs For Cancer Treatment:From In Silico To In Vivo** P. Decuzzi Italian Institute of Technology, Italy	**12:30-13:00** **INVITED**	**Roll-to-roll thin film fabrication processes (printing, patterning) and in-line characterization & quality control** S. Tsimikli *OET, Greece*
12:45-13:00	**Green Synthesis of Silver Nanoparticle to improve the efficiency of DSSC by plasmonic effect** Kaushik. S *Kumaraguru College of Technology, India.*				
13:00-13:15	**Tunable work function and optical nonlinearity of nanocomposites** Avesh Kumar *B. R. Ambedkar University, India*	**13:00-13:15** **YRA Candidate**	**Nanostructured Silica Nanoparticles: Degradation Pathways and Application in Biomedical Engineering** Yupeng Shi *Sorbonne Université, CNRS, France*	**13:00-13:15**	**Printing with Light: ultrafast printing technologies enabling Flexible Electronics** Gari Arutinov, Holst Centre / TNO, The Netherlands
		13:15-13:30	Discussion	**13:15-13:30**	**Color- Tailored Polymer OLEDs: Manufacturing and Characterization** D. Kokkinos *OET, Greece*

13:30-15:00	**Lunch Break** **NN18 Poster (SEE POSTER PROGRAMME)– Exhibition-Networking** **BUSINESS FORUM**

15:30-16:00	**Keynote** **Chair: T. Mitsiadis** **Room: Dock Six 2**		**Keynote** **Chair: :** C. Gravalidis **Room: Crystal Hall**

Wednesday 4 July 2018

	Mechanics Challenges in Wearable Electronics Kyriakos Komvopoulos *University of California, Berkeley, USA*					**15:00-15:30 KEYNOTE**	**Customization and integration of materials into novel components for the car of the future** N. Li Pira C.R.F. S.C.p.A, Italy
15:30-17:30	**WS1: Nanoelectronics 2** **Chair: S. Rollo** **Room: Timber Hall2**	**15:30-17:30**	**WS2: Nanoparticles 3** **Chair: Z. Popovic** **Room: Dock Six 1**	**15:30-17:30**	**WS3: Nanomedicine and Pharma: Novel Drug Delivery Nanosystems** **Chair: T. Mitsiadis** **Room: Dock Six 2**	**15:30-17:30**	**Workshop on I3D 3** **Room: Crystal Hall** **Chair: C. Gravalidis**
15:30-16:00 INVITED	**"High speed diodes for flexible large area electronics",** D. G. Georgiadou, *Imperial College London, UK,*	**15:30-16:00 INVITED**	**Properties of a Novel Nanometric Cubic Phase In Monochalcogenide Semiconductors** G. Makov *Ben-Gurion University of the Negev, Israel*	**15:30-16:00 INVITED**	**Implementing clinical trials and harnessing omics knowledge to improve the precision in personalized medicine therapeutics decisions** Ioannis S. Vizirianakis *Aristotle University of Thessaloniki, Greece*	**15:30-16:00 INVITED**	**Title to be announced soon** **A. Laskarakis** Aristotle University of Thessaloniki, Greece
16:00-16:30 INVITED	**Nanoscale piezoelectric materials and their applications** A.L. Kholkin University of Aveiro, Portugal	**16:00-16:30 INVITED**	**Growth, characterization and properties of ZnO nanostructures** N. Boukos *National Centre for Scientific Research "Demokritos", Greece*	**16:00-16:30 INVITED**	**A Process System Approach to Nose-to-Brain Delivery of Biopharmaceutics** Costas Kiparissides *Aristotle University of Thessaloniki & Centre for Research and Technology Hellas, Greece*	**16:00-16:30 INVITED**	**Development of interactive automotive interiors based on integrated printed and smart electronics** J. Gomes, *Centre for Nanotechnology and Smart Materials Portugal*
16:30-16:45	**Field Emission of Electrons from Nanoscopic Paraboloidal Metal Tips in the Near-Field Scanning Electron Microscope** *A. Chatziafratis* *National Technical University of Athens, Greece*	**16:30-16:45 EU Project**	**Development and Demonstration of Highly Insulating, Construction Materials from Bio-derived Aggregates** Nadia Sid TWIL Ltd, United Kingdom.	**16:30-16:45**	**Biofunctionalized Dual Drug- Loaded Nanoid Scaffolds for Dermal Healing Applications** K. Matskou *Aristotle University of Thessaloniki, Greece*	**16:30-17:00 INVITED**	**Strategies for Conformable Printed Devices: stretchable, thermoforming and in mold electronics** P. Gaucci *Eurecat, Centre Tecnològic de Catalunya, Spain*
16:45-17:00	**High-k composite dielectric layers for flexible field-effect transistors** *F. Piana* *Academy of Sciences of the Czech Republic v.v.i., Czech Republic*	**16:45-17:00**	**One step to synthesis (rGO/Ni NPs) nanocomposite and using to adsorption dyes from aqueous solution** Ali K. shakir *University of Babylon, Iraq*	**16:45-17:00**	**Self-structured, self-delivered nanoscale protein drugs for medical oncology** Antonio Villaverde *Universitat Autònoma de Barcelona & CIBER de Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Spain*		
17:00-17:15	**High Mobility Solution-Processed Metal Oxide Heterojunction Transistors: 2-Dimensional Conduction and Interfaces** Nikolaos A. Hastas *Aristotle University of Thessaloniki, Greece*	**17:00-17:15**	**Analytical response modelling and conductivity of CNT-based sensors** Sholeh Alaei *Islamic Azad University, Iran*	**17:00-17:15**	**Bacterial amyloids as implantable depots for the remote administration of cell-targeted protein drugs** Esther Vázquez *Universitat Autònoma de Barcelona & (CIBER-BBN), Spain*	**17:00-17:30 INVITED**	**Scale-up challenges of R&D OPV - From Lab-to-Fab** D. Bagnis *CSEM Brasil, Brazil*
17:15-17:30	**Simulation of Electromagnetic Field From Microwave Rectangular Waveguide to Circular in Transition Devices** Islam J. Islamov *Dept Radio Engineering and Telecommunication Azerbaijan Technical University, Baku, Azerbaijan*	**17:15-17:30**	**Comparison study between normal and nano sized aluminium (III)-rutin hydrate complexes with their applications** Khaled Mansour Elgendy *Zagazig University, Egypt.*	**17:15-17:30**	**Shorter BMP-2 regions are more functional than their entire origins** Theodora Choli-Papadopoulou Aristotle University of Thessaloniki, Greece		
						17:30-17:45	**Full into the automotive central console** A.Califórnia *Centre for Nanotechnology and Smart Materials, Portugal*
						17:45-18:00	**Flaw tolerance in architected metamaterials** P. Pantidis

							University of Massachusetts, USA
						18:00-18:15	**Laser Powder Bed Fusion and heat treatments: tailoring the microstructure of alloys for biomedical applications** E. Santecchia *Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali, Italy*

20:00	**NANOTEXNOLOGY 2018 BEACH PARTY at the Beach Bar RIVIERA** **Start of transport from Porto Palace Hotel at 18:00, Start of Return from Beach Bar at 23:00**

08:00 -	**Registration**						
	Chair: **P. Patsalas** Room: Timber Hall 1						
9:00-9:30 KEYNOTE	**Implantable devices for drug delivery in the brain** **G. Malliaras** *University of Cambridge, UK*						
	WS2: Special Session on "New Solutions to Support the Monitoring of the Concentration of Engineered nanomaterials in Indoor Workplaces and Urban areas. Lessons from LIFE NanoMONITOR" **Chair: Athena Progiou, Carlos Fito** **Room: Dock Six 1**		**WS2:Nanocharacterization 1** **Chair: P. Patsalas** **Room : Timber Hall 1**		**WS3: Basic Research in Nanomedicine towards Clinical Practice** **Chair : V.Karagkiozaki** **Room: Dock Six 2**		**Bioelectronics 1 (Joined Session of NN18 & ISFOE18)** **Chair: F. Biscarini** **Room: Timber Hall 2**
9:30-9:40	**Reception of the Attendees**	**9:30-10:00 Invited**	**Quantitative characterization of nanoparticles interacting with bacterial cells** D. Y. Petrovykh International Iberian Nanotechnology Laboratory (INL), Portugal	**9:30-10:00 Invited**	**Nanomedicine for Imaging and Treatment of Atherothrombosis – The EU-funded Project "NanoAthero"** *Didier Letourneur, and the NanoAthero Consortium* *INSERM U1148 – LVTS, France*	**9:30-10:00 Invited**	**Organic Neuromorphic Devices** P. Gkoupidenis *Max Planck Institute for Polymer Research, Germany*
9:40-10:00	**Welcome & Overall view of the LIFE NanoMONITOR project** Carlos Fito. ITENE						
10:00-10:20	**Levels of exposure at industrial sites and current recommended exposure levels** Maidá Domat, ITENE	**10:00-10:30 Invited**	**Self-Formed Nanogap Junctions for Electronic Detection and characterization of Molecules and Quantum Dots** R. Yerushalmi *The Hebrew University of Jerusalem, Israel*	**10:00-10:30 INVITED**	**Targeting the molecular mechanism of foreign body reaction (FBR) to peripheral neural interface** D.Barone University of Cambridge, UK	**10:00-10:30 INVITED**	**Organic Electronic for Neuromorphic Computing** **Y. van de Burgt** *Technische Universiteit Eindhoven, The Netherlands*
10:20 – 10:40	**Concentrations of nanomaterials in urban areas. Lessons from the project** Francisco Alacreu *CEAM*	**10:30-10:45**	**New Tools in High-Resolution Electron Microscopy for the Structural and Chemical Analysis of Energy-Related Nanostructured Materials** Michel L. Trudeau *Center of Excellence in Transport Electrification and Energy Storage, Canada*	**10:30-10:45**	**Bacterial Nano-cellulose Scaffold as a Basal Lamina for In Vitro Blood Brain Barrier Model** Aylin Sendemir-Urkmez *Ege University, Turkey*	**10:30-10:45**	**Emulating Homeoplasticity Phemonena with Organic Electrochemical Devices** D. A. Koutsouras *Max Planck Institute for Polymer Research, Germany*
10:40 – 11:00	**Presentation of the NanoMONITOR station prototype** Jose Luis Palau *CEAM*	**10:45-11:00**	**Diphenylalanine Peptide Nanotubes with Different Chirality: Structure and Properties** S. Kopyl *University of Aveiro, Portugal*	**10:45-11:00**	**Small molecule detection with aptamer based lateral flow assays: Applying aptamer-C-reactive protein cross-recognition for ampicillin detection** L. Kaiser *Furtwangen University & University of Freiburg, Germany*	**10:45-11:00**	**Glass microresonators doped with silver nanoparticles and quantum dots for biosensing applications** M. Suster *Centre of New Technologies at the University of Warsaw, Poland*
11:00 – 11:30	**Coffee break and use of the prototype by attendees**						

11:00-11:30	**Coffee Break** **NN18 Poster (SEE POSTER PROGRAMME) – Exhibition-Networking** **EXPO FORUM**

11:30-12:00	**Keynote Talk** **Chair: E. Lidorikis** **Room Timber Hall 1**						
	Double line groups: structure and irreducible representations M. Damnjanovic *Uni Belgrade, Serbia*						
12:00-13:30	**WS2: Special Session on "New Solutions to Support the Monitoring of the Concentration of Engineered nanomaterials in Indoor Workplaces and Urban areas. Lessons from LIFE NanoMONITOR"** **Chair: Athena Progiou, Carlos Fito** **Room: Dock Six 1**	**12:00-13:30**	**WS2:Computational** **Chair: E. Lidorikis** **Room: Timber Hall 1**	**12:00-13:30**	**WS3: Clinical Nanomedicine against major chronic Diseases & Nanodentistry** **Chair T.A. Mitsiadis** **Room: Dock Six 2**	**12:00-13:30**	**Bioelectronics 2 (Joined Session of NN18 & ISFOE18)** **Chair: P. Gkoupidenis** **Room: Timber Hall 2**
12:00-12:20	**Use of the data acquisition software** Athena Progiou *AXON*	**12:00-12:30 INVITED**	**Nanographene Sheets as Fillers in Polymer Matrices: A Molecular Dynamics Study** A. N. Rissanou *University of Crete, Greece.*	**12:00-12:30 INVITED**	**Dental tissues remodelling during healing and potential therapeutic strategies using pharmacological and stem cell tools** G. Orsini *University of Zurich, Switzerland & Polytechnic University of Marche, Italy*	**12:00-12:30 INVITED**	**Controlled Engineering of Bioelectronics Interfaces Using Mixed Organic Monolayers** Roger Woerdenweber *Institute for Complex Systems (ICS-8), Germany*
12:20-12:40	**NanoMONITOR Guidance on the sampling methods and analytical techniques for the measurement and monitoring of ENMs in the environment and their use in proving compliance with EU chemical regulations** Neil Hunt. YORDAS	**12:30-13:00 INVITED**	**First-principles studies on novel two-dimensional materials** L. Tsetseris *National Technical University of Athens, Greece*	**12:30-13:00 INVITED**	**Novel Biological and Nanotechnological Platforms for Dental Clinical Use** T.A. Mitsiadis *University of Zurich, Zurich, Switzerland*	**12:30-12:45**	**"Development of "Intelligent" Nanomaterials as Temperature Sensors in Food Packaging Industry: Synthesis, Characterization and Study of Fe(II) Coordination Complexes Exhibiting Spin Crossover Phenomenon (SCO)"** K. S. Andrikopoulos FORTH/ICE-HT, Greece
						12:45-13:00	
12:40-13:00	**Particulate matter in the greater area of Thessaloniki** Apostolos Kelessis MUNICIPALITY OF THESSALONIKI	**13:00-13:15**	**Computational data analysis methods for noise-free nanometrology: The case of Line Edge Roughness in nanoelectronics manufacturing** G. Papavieros *N.C.S.R. Demokritos, Greece*	**13:00-13:15**	**Nanoparticles embedded in electrospun fibers for psoriasis treatment** M. Brunelli *Swiss Federal Laboratories for Materials Science and Technology, Switzerland*	**13:00-13:15**	**From Single-Nanowire Biosensor to Network of Nanowires for Touch Sensors: A Framework to Reduce Fabrication Cost and Improve Device Functionality** M. Sam *University of Victoria, Canada*
13:00 – 13:30	**Round table and networking with attendees** Carlos Fito. ITENE	**13:15-13:30 YRA Candidate**	**Laser aided curing of a GnP/epoxy nanocomposite optimised by multi-scale finite element analysis** A. Manta *University of Manchester United Kingdom*	**13:15-13:30**	**Computer–Aided Designing And Biovalidation Of Novel Peptide Analog From Chicken Cathelicidin-2** Avneet Saini *Panjab University, India*	**13:15-13:30**	**Silicon biosensors examined with surface techniques: molecular arrangement and composition, antibody orientation and binding stoichiometry** A. Budkowski *Jagiellonian University, Poland*

13:30-15:00	**Lunch Break** **NN18 Poster (SEE POSTER PROGRAMME) – Exhibition-Networking** **BUSINESS FORUM**

		15:00-17:15	**WS2: Polymers** **Chair: V. Koutsos** **Room: Timber Hall 1**	**15:00-17:15**	**Bioelectronics 3 (Joined Session of NN18 & ISFOE18)** **Chair: Y. van de Burgt** **Room: Timber Hall 2**	**15:00-17:15**	**Workshop on I3D 4** **Chairs: A. Laskarakis, LTFN, AUTh, Greece** **Room: Crystal Hall**
15:30-17:45	**WS2: Special Session on "Integration of Nanomaterials into existing Production lines"** **Chair: Elodie Bugnicourt, Alvise Bianchin** **Room: Dock Six 1**	**15:00-15:30 INVITED**	**Leveraging Molecular Architecture To Design Novel Nanostructured Materials for High Modulus and High Conductivity Solid Polymer Electrolytes** Emmanouil Glynos *FORTH, Greece*	**15:00-15:30 INVITED**	**Ultrasensitive detection of neurotransmitters with organic electronics biosensors** Fabio Biscarini *University of Modena and Reggio Emilia, Italy*	**15:00-15:30 INVITED**	**3D Printing of Biomimetic Conjugated Polymers for Wearable Electronics** Yue (Jessica) Wang *University of California, USA*
15:30-16:20	**OptiNanoPro: Processing and control of novel nanomaterials in packaging, automotive and solar panel processing lines** **Novel electrohydrodynamic processes to deposit nanoparticles for surface tailoring** Amparo Verdú *Bioinicia*	**15:30-16:00 INVITED**	**Adhesion and tribology of polyelectrolyte brushes** M. Geoghegan *Department of Physics and Astronomy, University of Sheffield, Sheffield S3 7RH, UK*	**15:30-15:45**	**Gold Nanoparticle/Poly Ionic Liquid Based Electrodes For Electrochemical Detection Of Triclosan In Natural Water Samples** R.T. Priscila *Universidade de Brasília, Brazil*	**15:30-16:00 INVITED**	**Additive manufacturing of micrometer-sized 3D metal objects by FluidFM® femtoliter liquid dispensing** Edgar Hepp *Cytosurge AG, Switzerland*
				15:45-16:00	**Fabrication of innovative plasmonic paper-based nanosensors for label-free biodetection.** M. Focsan Babes-Bolyai University, Romania		
	Self cleaning coating for the OPV sector P. Schilinsky OPVIUS GmbH	**16:00-16:15**	**Silanol end-terminated Poly(styrene-co-butadiene) random copolymer thin and ultrathin films studied by atomic force microscopy** Antonios Valavanis *The University of Edinburgh, United Kingdom*	**16:00-16:15**	**Fabrication of innovative plasmonic paper-based nanosensors for label-free biodetection.** M. Focsan Babes-Bolyai University, Romania **High-sensitive electrochemical immunosensor for detection of salivary cotinine** Kyungyeon Lee Yonsei University, Seoul	**16:00-16:30 INVITED**	**Roll-to-Roll pilot line for large-scale manufacturing of microfluidic devices** J. Hesse *JOANNEUM RESEARCH FmbH, Austria*
	The potential of nanomaterials in the production of barrier and easy emptying coating for the packaging sector Urška Sušnik *Pivk. Lajovic Tuba d.o.o.*						
	Inline monitoring of nanostructured coatings in industrial production lines Séverine Philippe *IRIS Technology Group*			**16:15-16:30**	**High-sensitive electrochemical immunosensor for detection of salivary cotinine** Kyungyeon Lee Yonsei University, Seoul		
16:20-16:50	**IZADI-Nano2Industry: Injection moulding, casting and coating PILOTS for the production of improved components with nano materials for automotive, construction and agricultural machinery**	**16:15-16:30 YRA Candidate**	**Magneto-optical activity in self-assembly thin films of organic materials** K. Łempicka *University of Warsaw, Poland*				
	Coating by Thermal Spraying -sector: hydraulic motors and machinery María Parco *Tecnalia, Izadi-Nano2IndustryTribonano Pilot*						
	Compounding of polymer materials and nanotexturing of the mould -sector: Automotive Cristina Elizetxea *Tecnalia, Izadi-Nano2Industry Project Coordinator*	**16:30-16:45**	**Utilization of CNTs and Carbon Fibers towards high performance thermoelectric polymer nanocomposites and TEG-enabled structural CFRP composites** L. Tzounis University of Ioannina, Greece			**16:30-17:00 INVITED**	**Fast 3D printing of very large automotive parts: present and future** **P. Perlo** *Interactive Fully Electrical Vehicles, I-FEVS, Italy*

16:50-17:10	**PROCETS: PROtective composite Coatings via Electrodeposition and Thermal Spraying Nano-reinforced Coating by electroplating and electroless plating - sector Automotive & Mechanical Tools** Luca Magagnin *Politecnico di Milano, Italy*	**16:45-17:00**	***Polymer Droplets: Adsorption and Wetting Behaviour*** Anastassia N. Rissanou Foundation for Research and Technology Hellas (FORTH), Greece				
		17:00-17:15	**Fire Retardants Polymer Nanocomposites** Ewa Kicko-Walczak *Institute for Engineering of Polymer Materials and Dyes in Toruń, POLAND*			**17:00-17:15**	**Toward slot-die coating of flexible and large-area organic-light emitting diodes in ambient conditions** K.Stavrou Aristotle University of Thessaloniki, Greece
17:10-17:30	**Nanosafety issues at industrial production lines, Safe-by-design approaches in the development of nanomaterials and their applications** Ana Rita Alberto *ISQ Group*	**17:15-17:30**	**Carbohydrate-based block copolymer self-assemblies: Sub_10nm highly nanostructured thin films** R. Borsali University Grenoble Alpes, France			**17:15-17:30** EU PROJECT	**Real-time melt pool monitoring for process control in additive manufacturing** C. Theoharatos *Computer Vision Systems, Greece*
	Nanosafety assessment at workplaces Steve Hankin *IOM*						
	Aspects to take into account for the safe handling of nano-products used in the injection moulding, casting and coating Cristina Elizetxea *Tecnalia, Izadi-Nano2Industry Project Coordinator*						
17:30-17:45	**EPPN: European Network for Pilot Production Facilities: Pilot opportunities for the introduction on Nanotechnologies in production lines** Alvise Bianchin *MBN nanomaterialia*						

NN18
3-6 July 2018

Friday 6 July 2018

2018 nanotexnology

08:00 -	**Registration**				
09:00-11:00	**WS2: Nanocharacterization 2** **Chair: R. Yerushalmi** **Room: Crystal Hall**	**09:00-11:00**	**WS3: Nanoparticles in Nanomedicine 2** **Chair: M. Chatzinikolaidou** **Room: Dock Six 2**	**09:00-11:00**	**New Business Development & Commercialization Workshop** **Chair: G. Kousoulas** **Room: Timber Hall 1**
09:00-09:30 INVITED	**Spin splitting in quasi-one dimensional systems: symmetry based restrains** T. Vukovic	**09:00-09:30 INVITED**	**Poly(L-lactide)-based copolymeric biomaterials support bone regeneration** Maria Chatzinikolaidou *University of Crete & Foundation for Research and Technology Hellas, Greece*	**09:00-09:30 INVITED**	**The Role of Academic Technology Transfer and Innovation and Entrepreneurship Ecosystems for Economic Growth and Prosperity** Konstantin G. Kousoulas, PhD, Louisiana State University, USA
09:30-10:00 INVITED	**Artificial Intelligence in Nanoelectronics and Nanotechnology** V. Constantoudis *N.C.S.R. Demokritos & Nanometrisis P.C. Greece*	**09:30-09:45**	**In Situ Forming Hyaluronic Acid based Hydrogels for the Repair of Cartilage Lesions** E. Tsanaktsidou *Aristotle University of Thessaloniki, Greece*	**09:30-10:00 INVITED**	**Velocity Partners Venture Capital Fund** Eric Parks *Velocity Partners, Cyprus*
		09:45-10:00	**Fabrication of PET nanoplastics pollutants by laser ablation: characterization and in vitro toxicity assessment** D. Magrì *University of Genova & Istituto Italiano di Tecnologia, Italy*		
10:00-10:15	**Mechanical Behavior of GaAs Nanowires** Y.B. Wang *The University of Sydney, Australia*	**10:00-10:15**	**natural products / metal nanoparticles conjugate and its biomedical application** Ahmed Hussein *Cape Peninsula University of Technology, South Africa*	**10:00-10:30 INVITED**	**Innovation strategies and new business opportunities to leverage business growth** Michel Prassas *Corning European Technology Center, France*
10:15-10:30	**The Properties of Nano-electromagnetic Structures Designed with the Nano-Balls of Imperfect Surfaces** T. Sengor Yildiz Technical University, Turkey	**10:15-10:30**	**European standardization in nanotechnologies and relation with International work. How standardization can help industry and regulators in developing safe products?** P. Conner *AFNOR Standardization, France*		
10:30-10:45	**Surface-enhanced Raman scattering spectroscopy detection of silver(I) ions using hybrid Fe3O4/Ag nanoparticles sensitized with 5-(4-dimethylaminobenzylidene)rhodanine** M. Witkowski *University of Warsaw, Poland*	**10:30-10:45 EU Project**	**Calculation of nanoparticle PhysChem descriptors for cytoxicity studies: SmartNanoTox project** M.Schneemilch Imperial College, UK	**10:30-11:00 INVITED**	**The Greek Strategy for Research and Innovation. Implementation and forthcoming calls** Asterios Chatziparadisis *General Secretariat of Research & Technology, Greece*
10:45-11:00	**Au and Ag nanowire junction breakups studied using experiments and modelling** V. Jansson *University of Helsinki, Finland*	**10:45-11:00**	Discussion		

11:00-11:30	**Coffee Break** **NN18 Poster (SEE POSTER PROGRAMME) – Exhibition-Networking** **EXPO FORUM**

11:30-13:30	**WS2: NanoCatalysts** **Chair: I Tsiaoussis** **Room: Crystal Hall**	**11:30-13:30**	**WS3: Translational Nanomedicine, Regulations** **Chair: T. Mitsiadis** **Room: Dock Six 2**	**11:30-13:30**	**New Business Development & Commercialization Workshop** **Chair: E.M Pechlivani** **Room: Timber Hall 1**
11:30-12:00 INVITED	**Ceramic-foam-structured Rh/CeO2 catalysts: In-situ combustion deposition and biogas reforming performance** C. Italiano CNR-ITAE, Institute for Advanced Energy Technologies "Nicola Giordano", Italy	**11:30-12:00 INVITED**	**Particulate Matters-PM, Endocrine Disruptors and fetal disease susceptibility in polluted contaminated areas** E.-N. Emmanouil-Nikoloussi European University of Cyprus, Cyprus.	**11:30-12:00 INVITED**	**Commercialization of Fully R2R Printed Organic Photovoltaics for Eco-Friendly Power Generation: Towards Industry 4.0** E.M Pechlivani Organic Electronic Technologies P.C. (OET), Greece
12:00-12:30 INVITED	**Hydrogen Production via Steam reforming of Glycerol over Rh-Al2O3 catalysts modified with CeO2, MgO or La2O3** M.A. Goula Western Macedonia University of Applied Sciences, Greece	**12:00-12:30 INVITED**	**Global Health Impacts of Nanotechnology Law** Ilise Feitshans European Scientific Institute, France & Executive Director The Work Health & Survival Project, EU/USA	**12:00-12:30 INVITED**	**Uni.Fund Ventural Capital** Katerina Pramatari, *Uni. Fund, Greece*
12:30-13:00 INVITED	**Nanoborides as Electrocatalysts** B. Fokwa University of California, USA	**12:30-12:45**	Iron-substituted Hydroxyapatite Nanoparticles for Biomedical Applications C. P. Ooi Singapore University of Social Sciences, Singapore	**12:30-13:00 INVITED**	**Opportunities for Reseach Collaborations with SUNUM** F. Vardar-Sukan, *Sabanci University SUNUM Nanotechnology Research Centre, Turkey*
		12:45-13:00 EU Projects	**Nanotechnology Mutual Learning Action Plan for Transparent and Responsible Understanding of Science and Technology** O. Kammona Centre for Research and Technology Hellas, Greece		
13:00-13:15	**Influence study of the reduction temperature on the structural characteristics in Ce0.70La0.20Ni0.10O2-δ by HRTEM/STEM-EELS** I. Tsiaoussis Aristotle University Thessaloniki, Greece		**Discussion**	**13:00-13:30 INVITED**	**Bridging the Innovation Gap through Outreach and Collaboration** Janice Warkentin *NanoCanada, 11421 Saskatchewan Drive, Edmonton, Alberta, Canada*
13:15-13:30	**Transformation of natural triglycerides into green diesel using Ni/Zr catalysts: An investigation of process parameters and feed compositions** M.A Goula Western Macedonia University of Applied Sciences, Greece				
				13:30-14:00 INVITED	**Flexible and Printed Electronics - Perspectives and Needs (Korea)** An-Jung Chung *Korea Printed Electronics Association (KoPEA), Korea*

13:30-15:00	**Lunch Break** **NN18 Poster (SEE POSTER PROGRAMME) – Exhibition-Networking** **EXPO FORUM**

Friday 6 July 2018

15:00-15:30	**Keynote Talk** **Chair:Y. Misirlis** **Room: Dock Six 2**		
	Mechanoepigenetics Yannis Missirlis *University of Patras, Greece*		
15:30-17:30	**WS3: Special Session I3D Bio** **Chair:Y. Misirlis** **Room: Dock Six 2**	**15:00-17:15**	**WS2: Nanoengineering & NanoCharacterization** **Chair: M. Gioti** **Room: Crystal Hall**
15:30-16:00 **INVITED**	**Engineering customizable hydrogel inks for 3D tissue and organ printing** Alexandra Rutz University of Cambridge, UK	**15:30-16:00** **INVITED**	**Nanostructures for spinor Bose-Einstein Condensates** J. Szczytko University of Warsaw, Poland
16:00-16:30 **INVITED**	**Challenges for Bioprinting and Bioink Design** Aylin Sendemir-Urkmez, Ege University, Turkey	**16:00-16:30** **INVITED**	**Advanced Carbon Nanomaterials for Flexible Electronics** Lianxi Zheng Khalifa University, United Arab Emirates
16:30-17:00 **INVITED**	**3D Printed Personalized Otorhinolaryngology Implants and Bioprinting for Immunomodulation** N.E. Vrana Protip Medical & INSERM UMR 1121, France	**16:30 – 16:45**	**HDPE/TiO2 nanocomposite: Fabrication and optimization of mechanical property by RSM and ANN** M.S. Mozumder UAE University, UAE
		16:45-17:00	**Building Underwater Infrastructure using Robotic Nanoheater Welding: Thermal, Mechanical and Material Analysis of Lap Joints with Sandwiched Ni/Al Reactive Multilayers** A. Hussien *Khalifa University U.A.E.*
17:00-17:30 **INVITED**	**3D bioprinting of human soft tissues** Hanna Berthag, Cellink, Sweden		

POSTERS

	WS1 Posters Tuesday 3 & Wednesday 4 July
P1-01	**Two-dimensional optical trap for exciton-polariton condensate** N. Kuk University of Warsaw, Poland
P1-02	**Solar cells based on semiconductor nanocrystals** Lawera Z. University of Warsaw, Poland
P1-03	**Metal halide perovskites with trimethylsulfonium cation for application in solar cells** A. Kaltzoglou NCSR Demokritos, Greece
P1-04	**Mixing cations and halide anions in perovskite solar cells** A. Kaltzoglou NCSR Demokritos, Greece
P1-05	**High performance solid state solar cells incorporating CdS quantum dots and CH3NH3PbI3 perovskite** A. Kaltzoglou, NCSR Demokritos, Greece
P1-06	**Triplet-Triplet Annihilation Upconversion (TTA-UC) Enhanced Solar Photocatalysis** **Hyoung–il Kim** **Yonsei University, Republic of Korea**
P1-07	**Carbendazim Herbicide Detection Using Surface-enhanced Raman Scattering** C.J.L. Constantino Univ Estadual Paulista, Brazil
P1-08	**Ultra low-loss super-resolution with extremely anisotropic semiconductor metamaterials** W. S. Hart Imperial College London, UK
P1-09	**Conductance tuning by chemical functionalization of molecular wires in large-area gold-molecule junctions** Downey E. University of Copenhagen, Denmark
P1-10	**Electrically tunable multilayered plasmonic nanostructure for optical filtration and imaging** Korneluk A. University of Warsaw, Warsaw
P1-11	**II-VI Distributed Bragg Reflector made of binary compounds: CdSe and ZnTe** Połczyńska K. University of Warsaw, Poland
P1-12	**Magnesium salts containing weakly coordinating anions.** Dołębska W. University of Warsaw, Poland,
P1-13	**Developing of recycling methods of the salts of weakly coordinating anions** Domańska M.M. University of Warsaw, Poland
P1-14	**Nanoporous activated carbon cloth for H_2 storage and selective CO_2/CH_4 separation** N. Kostoglou University of Leoben, Austria
P1-15	**Reversed mass percentage in lithium-ion battery cathodes as a method for a new class of pre-lithiated anode electrodes; case 1: LFP-Carbon** I.Samaras, AUTH, Greece
P1-16	**Strong field nonlinearities in asymmetric quantum dots coupled to a metallic nanoparticle** Sofia Evangelou University of Patras, Greece
P1-17	**Highly sensitive refractive index LSPR based optical fiber sensors fabricated with a novel laser irradiation technique** **D. Spasopoulos** **University of Ioannina, Greece**
P1-17	**Triazatriangulene as Binding Group for SAMs in Molecular Electronics** Jakobsen R. K. Nano-Science Center & Department of Chemistry, University of Copenhagen, Denmark
P1-18	**Fabrication and Electrical characterization of smOLED devices** Ankur Singh OLED Technologies B.V. ,Netherlands
P1-19	**Technology and Physics of OLED devices** Ankur Singh OLED Technologies B.V. ,Netherlands

P1-20	**Diffusion of Excitons in Conjugated Polymers** Jonathan Teixeira University of Brasilia & Institute Federal of Brasilia, Brazil
P1-21	**Nano-structured p-type Sb2Se3 thin films fabricated by co-evaporation process** Si-Nae Park Convergence Research Center for Solar Energy, Korea
P1-22	**Flexible supercapacitor: 3D patterning of reduced graphene oxide on textile substrate** V. Babaahmadi Amirkabir University of Technology, Iran
P1-23	**Design and simulation of the bidirectional micro-optic concentrator for solar radiation** C. Parvulescu, National Institute for Research and Development in Microtechnologies, Romania
P1-24	**Affirmation of Enhanced Uniformity by Photoluminescence Study of InAs Quantum Dots** S. Saravanan Sona College of Technology , India
P1-25	**Dyeing in cotton fabrics treated with oxygen plasma** João Batista Giordano Faculdade de Tecnologia de Americana Rua maranhão, Americana, 1378260 Brazil
P1-26	**Ultrasensitive Detection of Meldonium on Silvered Silicon Nanostructures by Surface Enhanced Raman Spectroscopy** E. Chubenko Belarusian State University of Informatics and Radioelectronics, Belarus

WS2 Posters Tuesday 3 and Wednesday 4 (P2-1 up to P2-35) Thursday 5 and Friday 6 (P2-36 up to P2-76)	
P2-01	Electrical Properties of SmB6 Thin Films Prepared by Pulsed Laser Deposition I. Batko Institute of Experimental Physics, Slovakia
P2-02	Preparation of Soft Magnetic Composites Based on Permalloy and Modified Resin Ferrite Nanofibres M. Batkova Institute of Experimental Physics, Slovakia
P2-03	Hot Wire Deposition of MoS2 films on flexible polyimide/metal substrates and their use as flexible strain sensors G. Papadimitropoulos, National Center for Scientific Research “Demokritos”, Greece
P2-04	Carbon nanotubes and multi-walled boron nitride nanotubes for aerospace engineering Efstathios V. Liakos, Eastern Macedonia and Thrace Institute of Technology, Greece
P2-05	Low-cost fabrication of nanostructured AlInP for high-performance ARCs in III-V solar cells. Cornelli M. RSE SpAItaly
P2-06	Applications of surface engineering techniques based on plasma electrolysis processes in the field of nuclear materials V. A. Andrei ELSSA LABORATORY SRL, Romania
P2-07	Electrochemical behaviour of alumina ceramic films developed on Zr-2.5% Nb by microarc oxidation in plasma electrolysis V. A. Andrei ELSSA LABORATORY SRL, Romania
P2-08	Synthesis and characterization of TiO2 (doped-undoped) nanocrystals through sol-gel and hydrothermal methods C. Lazau National Institute of Research-Development for Electrochemistry and Condensed Matter, Romania,
P2-09	Super Resolution Imaging of Silicon Chips Sorin Laurentiu Stanescu LIG Nanowise Ltd, U.K.
P2-10	Oblique Light Scanned Particle Lens Array Automatic System for Nano/Micro Patterns Texturing of Surfaces Sorin Laurentiu Stanescu LIG Nanowise Ltd, U.K.
P2-11	A study of the seed-trapping layer by methyl derived self-assembled monolayers for electroless cobalt alloys Sung-Te Chen Hsiuping University of Science and Technology, Taiwan
P2-12	Engineering Carbon Dots for Multicolor Emission Alas, M.O, Mersin University, Turkey
P2-13	Preparation of Fluorescent Carbon dot (CD) Thin Films for Energy Applications ALAŞ, M.O Mersin University, Turkey
P2-14	Thin films of Cu2ZnSnS4 obtained by spray pyrolysis of colloidal nanocrystals

	A. Tanushevski University "Sts.Cyril and Methodius", Skopje
P2-15	Study of corrosion resistance of fine films of zinc doped with aluminum (ZnO/ZnMgO/ZnO:Al) Cardoso. W. S. Instituto de Ensino Superior e Formação Avançada de Vitória –Brazil
P2-16	Obtaining of carbon-metal nanocomposite films in low temperature plasma M.K. Dosbolayev, Al-Farabi Kazakh National University, Kazakhstan
P2-17	The peculiarities of steel samples hardening after pulse plasma processing A. Zhukeshov, Al-Farabi Kazakh National University, Kazakhstan
P2-18	Effect of residual stress on corrosion behaviour of nano-crystalline Ni-Cu alloy thin films deposited by magnetron co-sputtering Mukesh Kumar Shree Guru Govind Singh Tricentenary University Gurgaon India
P2-19	Self-organized growth of Ge nanowire meshes in Al2O3 matrix Basioli L. Ruđer Bošković Institute, Croatia
P2-20	Structure and electrical properties in self-ordered Ge-based quantum dots embedded in different matrices Nekić N. Ruđer Bošković Institute, Croatia
P2-21	Formation of GemSen+/- clusters via laser ablation synthesis from Ge-Se mixtures-a way to understand structure of Ge-Se glasses: Laser Desorption Ionization time-of-flight Quadrupole Ion Trap Mass Spectrometry F. Huang Masaryk University, Czech Republic
P2-22	Investigation of phases forming during synthesis of calcium carbonate from supersaturated solutions R. Ševčík, Institute of Theoretical and Applied Mechanics of the Czech Academy of Sciences, Czech Republic
P2-23	Effect of high-energy mechanical milling on the FSDP-related XRPD correlations in Se-rich As-Se glasses and nanoparticles Ya. Shpotyuk University of Rzeszow, 1, Pigonia str., 35-959, Rzeszow, Poland
P2-24	Synthesis, characterization and self-assembly of small carbon quantum dots for binary systems applications Ornat K. University of Warsaw, Poland
P2-25	Green synthesis of peptide stabilised gold nanoparticles Wosztyl A. University of Warsaw, Poland
P2-26	Nanotip growth processes in electric fields V. Jansson University of Helsinki, Finland
P2-27	Synthesis, characterization and nematicidal activity of Pegylated Calcium Hydroxide Nanoparticles against Meloidogyne spp. P. Tryfon Aristotle University of Thessaloniki, Greece
P2-28	Synthesis, processing and characterization of FeMnGa and MnCoBi nanoparticles for permanent magnet applications G. Sempros Aristotle University of Thessaloniki, Greece
P2-29	Charge properties of TiO2 nanotubes K. Bohinc University of Ljubljana, Slovenia
P2-30	Superhydrophobic TEOS A. Papastergiou University of Ecclesiastical Academy of Thessaloniki, Greece
P2-31	GRACIOUS Framework for grouping and read-across of nanomaterials/nanoforms for regulatory risk assessment and safe-by-design Neil Hunt Yordas Group, Lancaster, UK
P2-32	Liquid-liquid extraction of vanadium(V) using 4-(2-thiazolylazo)orcinol (TAO) and Aliquat 336 Galya K. Toncheva University of Plovdiv Bulgaria
P2-33	Functionalized silica shell magnetic nanoparticles for nanophase peptide synthesis applications A. Moroșan **YRA Candidate** Politehnica University of Bucharest, Romania
P2-34	Low-temperature hydrothermal synthesis of hierarchical flower-like CuB2O4 superstructures N. Miclau National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania

P2-35	Comparative study of outdoor airborne nanoparticle concentrations in a coastal region of the western Mediterranean: Valencia (Spain) F. Alacreu Fundación CEAM, SPAIN.
P2-36	Fabrication of metal nanoparticles by laser ablation in liquid S. Oztulum Istanbul Technical University, Turkey
P2-37	Optical Properties of Transition Metals doped ZnO Nanocrystals Synthesized by Chemical Hydrothermal Method E. Chubenko, Belarusian State University of Informatics and Radioelectronics, Minsk
P2-38	Investigation Of Morphology, Size And Concentration Of Round TixOy Nanoparticles Generated By Femto-second Laser Ablation Method J. Donėlienė JSC Modern E-Technologies, Lithuania
P2-39	The Importance of Effects of Structural Factors Interaction for Metal Oxides Nanoparticles in QSAR Models of Cytotoxicity. A. Shyrykalova Odessa National Medical University, Ukraine
P2-40	Creation of Hybrid Organo-Inorganic Nanoabsorbents with Required Surface Chemistry I. Melnyk Institute of Geotechnics SAS, Slovak Republic & Chuiko Institute of Surface Chemistry NASU, Ukraine
P2-41	Reaction conditions to synthesizes dumbbell, flower or core-shell gold iron oxide nanoparticles. D. Muraca Cidade Universitária Zeferino Vaz Barão Geraldo, Brazil.
P2-42	Encapsulation of Citronella and Neem Essential Oils to Develop Functional Textiles K.K.O.S. Silva Federal University of Rio Grande do Norte, Brazil
P2-43	Encapsulation of Andiroba Essential Oil in Biopolymer for Moisturizing and Aromatic Applications K.K.O.S. Silva Federal University of Rio Grande do Norte, Brazil
P2-44	Applying Gold Nanoparticles on Textile Fibers by Exhaustion: Developing a functional textile material J.H.O.Nascimento Federal University of Rio Grande do Norte, Brazil
P2-45	Synthesis of Nitrogen doped Graphene Quantum and Application on Fibers as a Potential Multifunctional Textiles J.H.O. Nascimento Federal University of Rio Grande do Norte, Brazil
P2-46	Nanocoating PLA fabric by ZnO Quantum Dots: Evaluation of Photocatalytic and Larvicidal Properties J.H.O.Nascimento Federal University of Rio Grande do Norte, Brazil
P2-47	Use of nano carbon from date palm for removal of Pb (II) and Ni (II) from Water samples Elgendy, Kh Al-Zagazig University, Egypt
P2-48	Magnetic properties of Co2FeAl Heusler alloy nanoparticles with different particle sizes Sima Alikhanzadeh-Arani Farhangian University, Tehran, I. R. Iran
P2-49	Characterization of Ca2CuO3 nanostructures synthesized via a modified sol–gel method assisted by hydrothermal process Masoud Salavati-Niasari University of Kashan, I. R. Iran
P2-50	Surface Acoustic Wave Sensors with Nanoparticles embedded in Polymer Sensitive Layers for VOC Detection C. Viespe National Institute of Laser, Romania
P2-51	Polymer Nanocomposites Based On Polyamide / Polyethylene / Carbon Fibres L. Alexandrescu National Research and Development Institute for Textile and Leather Romani
P2-52	Mesoscopic Simulations of Elastomeric Materials Grigorios Megariotis National Technical University of Athens, Greece
P2-53	Nondestructive Evaluation of Nano-reinforced Ni-P-SiC Protective Coatings D. Tzetzis Centre for Research and Technology – Hellas (CERTH), Greece
P2-54	Characterization of Hyperfine Solder Powders used for Miniaturized Electronics D. Tzetzis Centre for Research and Technology – Hellas (CERTH), Greece
P2-55	Block copolymer grids as functional templates for sensing and electrocatalytic applications P. Puła University of Warsaw, Poland

P2-56	Simulation of nonREM IVth stage waves T.A. Vdovenkova T.V.A., Canada
P2-57	Fabrication of Nano-Structures on Curved Surface Using Contact Photolithography and Soft Photo-Mask Yung-Chun Lee National Cheng Kung University, Taiwan
P2-58	Spectral characteristics of Raman scattering measured on artificial and meteoritic diamond nanocrystals S. Tóth Wigner Research Center for Physics of the Hungarian Academy of Sciences, Hungary
P2-59	Silicon polytypes produced by femtosecond laser pulses S. Tóth Wigner Research Center for Physics of the Hungarian Academy of Sciences, Hungary
P2-60	Raman spectroscopy as a tool for tracking the fate of Carbon Nanotubes in the environment G. A. Voyiatzis FORTH/ICE-HT, Stadiou str, 26504 Rio-Patras, Greece
P2-61	Influence of heat treatment on the behavior of samarium nanoparticles in silicon Kh.Daliev, National University of Uzbekistan, Republic of Uzbekistan
P2-62	Non-equilibrium processes in the bulk and at the interface Si-SiO2 silicon MIS structures with a nanoscale impurity of hafnium Sh.Utamuradova National University of Uzbekistan, Republic of Uzbekistan
P2-63	Measuring the light fastness of dyes using the ZnO nanophotocatalyst M. Moteshaker Arani University of Kashan, I. R. Iran
P2-64	Development of a Textile with Silica Coating for Environmental Friendly Control of Insects in Agricultural Production M. Pelzer Institut für Textiltechnik der RWTH Aachen University, Germany
P2-65	Doped aluminum cluster anions: tuning the reactivity with water M. Šulka Slovak University of Technology in Bratislava, Slovak Republic
P2-66	Structure and dynamic behavior of epoxy/graphene oxide nanocomposites in dependency of mass fraction and surface modification A. Stimoniaris Western Macedonia University of Applied Sciences, Greece
P2-67	Top-down and bottom-up lithography of functional block copolymers A. Nika NCSR “Demokritos” & National and Kapodistrian University of Athens, Greece
P2-68	Thermal annealing of PS-b-PMMA diblock copolymer thin films Polak K. University of Warsaw, Poland
P2-69	Giant Faraday rotation in thin films of conjugated polymers and transition metal doped-liquid crystals K. Łempicka **YRA Candidate** University of Warsaw, Poland
P2-70	Melt Electrospun Reduced Tungsten oxide/Polylactic acid Fiber Membrane as Photothermal Material for Solar-driven Interfacial Water Evaporation Chang Mou Wu, National Taiwan University of Science and Technology, Taiwan
P2-71	Manufacturing technology of self-reinforced composite materials based on UHMWPE D. Chukov, NUST MISIS, Russia
P2-72	Mechanical Properties of Pulsed Electrodeposited Ni-P/SiC Nanocomposite Coatings through FEA-Supported Evaluation of Micro-Indentation Testing K. Tsongas Centre for Research and Technology-Hellas (CERTH), Greece
P2-73	Modeling of the interfaces of the system AgPb18SbSe20 with HRTEM micrographs and Geometric Phase Analysis. D.Tsamos, Aristotle University of Thessaloniki, Greece
P2-74	IZADI-NANO2INDUSTRY Project to Impulse the Uptake of Nanotechnology Based Solutions E. Melotti Warrant Group S.r.l. Italy
P2-75	Nanostructure effect on nano-magnetism of Fe/Pt spintronic systems D. Karfaridis Aristotle University of Thessaloniki, Greece
P2-76	Ultrasmall Zinc ferrite Nanoparticles suitable for Bio-applications

	K. Giannousi Aristotle University of Thessaloniki, Greece
P2-77	ZnO NPs and ZnO@Pelargonic acid nanocapsules as nematicidals C. Gkanatsiou Aristotle University of Thessaloniki, Greece

	WS3 Posters Thursday 5 & Friday 6 July
P3-01	Antibacterial Nitric Oxide- and Singlet Oxygen-Releasing Polystyrene Nanoparticles Responsive to Light and Temperature Triggers Jiří Dolanský Charles University in Prague, Czech Republic
P3-02	Nano-antidotes: a potential approach to detoxification Katsouda A. Aristotle University of Thessaloniki, Greece
P3-03	Biomimetic Drug Loaded Polymeric Nanoplatform onto Dermatological – Care Polyurethane Patch K. Matskou Aristotle University of Thessaloniki, Greece
P3-04	Preparation and Characterization of Ciprofloxacin-loaded PLGA nanoparticles with the Electrospraying method against pulmonary and urinary infections C. Panagiotou Aristotle University of Thessaloniki, Greece
P3-05	Encapsulation and study of Cannabidiol based complex nanosystems for medical use C. Panagiotou Aristotle University of Thessaloniki, Greece
P3-06	Glycolipidomics in biomedical research by ion mobility mass spectrometry Mirela Sarbu National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania
P3-07	Protein-carbohydrate noncovalent interactions by microfluidics-mass spectrometry Mirela Sarbu National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania
P3-08	Mesoporous nanostructured silica support for sustained release of plant extracts in biomedical applications B. Purcareanu S.C. BIOTEHNOS S.A., Romania
P3-09	Doxorubicin loaded multi-functionalized liposomes for glioblastoma targeting Formicola B. University of Milano-Bicocca, Italy
P3-10	Biomimetic apoferritin-nanoparticles to improve blood-brain barrier crossing and glioblastoma targeting of cetuximab Dal Magro R. University of Milano-Bicocca, Italy
P3-11	Application of Nanomaterials on high touch surfaces in hospital settings for preventing bacterial contamination P. Borella University of Modena and Reggio Emilia, Italy
P3-12	Comparison of Degradable Electrospun Fibrous Meshes in Orthopaedic Applications A. R. Tsiapla Aristotle University of Thessaloniki, Greece
P3-13	An In-Depth Comparison of Tissue Regeneration Drug Loaded Nanoplatforms for Cardiovascular Applications Veroniki Bakola Aristotle University of Thessaloniki & BL NanoBiomed P.C Greece
P3-14	Encapsulation of flavonoid chrysin in hybrid PCL-PVA and PHB-PVA co-polymeric nanoparticles for targeted anticancer, antioxidant and anti-inflammatory activity. E. Halevas Aristotle University of Thessaloniki, Greece.
P3-15	Multiscale study of hybrid magnetic dendrimeric nanocarriers of novel anticancer Ga(III)-flavonoid complexes for targeted drug delivery E. Halevas Aristotle University of Thessaloniki, Greece.
P3-16	A comparative study in sterilization of silver nanoparticles A. Ntolia **YRA Candidate** Aristotle University of Thessaloniki, Greece
P3-17	Free-standing polymeric membranes created by LbL technique and different crosslinking strategies for Tissue Engineering applications Repanas A. Martin-Luther-Universität Halle-Wittenberg, Germany
P3-17	Polymer coatings for biosensing application obtained by atmospheric pressure plasma L. Barillas Leibniz Institute for Plasma Science and Technology, Germany
P3-18	Nanosized CoCrMo-Protein Degradation Products Mediated Neural Cell Defects Abhijith Segu UIC College of Medicine, USA
P3-19	Tensoresistor Based on Layers of Biological Nanocomposite Materials Ichkitidze L.P.

	National Research University of Electronic Technology, Russian Federation
P3-20	Electrodes Based on Layers of Composite Nanomaterial for Artificial Muscle Ichkitidze L.P. National Research University of Electronic Technology, Russian Federation
P3-21	Mesenchymal Stem Cells as Delivery Vehicles of Photosensitizer Functionalized Nanoparticles: Cell Therapy Meets Nanotechnology Dapkute D. **YRA Candidate** National Cancer Institute & Vilnius University Lithuania;
P3-22	Synthesis of Carbon-ZrO2 core-shell Fluorescent Nanoparticles Genc, R Mersin University Mersin, Turkey
P3-23	Hydroxyapatite scaffold with Alginate and Pluronic® for alendronate delivery in osteoporosis. R. F. C. Marques São Paulo State University – UNESPBrazil.
P3-24	Effect of Emerging Pollutants on Biomembrane Models Based on Langmuir Films P. Alessio São Paulo State University (UNESP), Brazil
P3-25	Development of Sensor for Monitoring of Trace-Concentrations of Hydrogen Peroxide in Vapours Kacer P. NIMH Klecany, Czech Republic
P3-26	Software development for the calculation of dielectric spectra of biomolecules using molecular dynamics simulations John A. Stamkos Aristotle University of Thessaloniki, Greece
P3-27	The Effect of Annealing on Magnetic Hyperthermia Performance of Rare-Earth Doped CoFe2O4 Nanoparticles X. Koutsoumpou Aristotle University of Thessaloniki, Greece
P3-28	Electrospun Hydrophilic PLGA and PVA Curcumin Eluting Scaffolds for Drug Delivery Applications S. Aslanidou Aristotle University of Thessaloniki, Greece

	WS5 Posters Tuesday 3 Thursday 5 & Friday 6 July
P5-01	**Investigations of a GBHT Transistor based on N-Doped Amorphous Silicon-Graphene Layers** C. Strobel *Technische Universität Dresden, Germany*
P5-02	Novel hybrid materials constructed from TiO2 nanocrystals and graphene oxide: Synthesis and characterization. A.Vagena University of Patras, Greece
P5-03	Wide-Band Nano-Imaging of Plasmon Dispersion and Hotspots in Quasi-Free-Standing Epitaxial Graphene W. S. Hart Imperial College London, UK
P5-04	**Mechanical Properties of Novamene Structures: A molecular dynamics investigation** *Eliezer F. Oliveira* *University of Campinas (UNICAMP), Brazil*
P5-05	**3D nanotubes network synthetized inside beta zeolites templates: A molecular dynamics investigation** *Eliezer F. Oliveira* *University of Campinas (UNICAMP), Brazil*
P5-06	Transfer and characterization of graphene grown by CVD on seeded copper foils Cristina Varone **YRA Candidate** Delft University of Technology
P5-07	Graphene aerogels as binder-less anode electrodes for high performance lithiumion batteries Pinelopi Angelopoulou University of Patras, Greece
P5-08	Investigation of the Adherence and Poliferation Characteristics of SH-SY5Y Neuron Model Cells on 3D Graphene Foam Surfaces A. Şendemir Ürkmez Ege University, Turkey
P5-09	**Wastewater Treatment with Graphene, MWCNT's, Zeolite, Perlite and Tuff as a Sorbents of Heavy Metals** A.T.Dimitrov, University SS Cyril and Methodius, FYR Macedonia
P5-10	Graphene based resistive flexible strain sensors and their theoretical limitations V. Tsouti National Center for Scientific Research "Demokritos", Greece
P5-11	Surface-enhanced Raman spectroscopy of graphene integrated in plasmonic silicon platforms with a three-dimensional nanotopography Alva Dagkli University of Ioannina, Greece

P5-12	Comparison of optical properties of MBE grown MoSe2 and (Mo,Mn)Se2 J. Kucharek University of Warsaw, Poland
P5-13	Immobilizing Graphene Oxide on Soybean Protein Textile Fabric by LBL: Synthesis, Characterization and Electrochemistry Evaluation J.H.O.Nascimento Federal University of Rio Grande do Norte, Brazil
P5-14	Effect of graphene nanoplatelets on the structure and thermal stability of PE-RT nanocomposites D. Kourtidou Aristotle University of Thessaloniki, Greece

	I3D Posters All days
P6-01	Additive manufacturing of micrometer-sized 3D metal objects by FluidFM® femtoliter liquid dispensing Edgar Hepp Cytosurge AG, Switzerland
P6-02	**Evaluation of the cell response to the environmental stress by FTIR spectroscopy** M. Grube University of Latvia, Riga, Latvia
P6-03	Direct printing of liquid metal pastes for stretchable electronics J. Oh Electronics and Telecommunications Research Institute, Korea
P6-04	3D printed supercapacitors from 2D material inks A. Panagiotopoulos Department of Materials, Imperial College London, Royal School of Mines, Exhibition Road, SW7 2AZ London, United Kingdom
P6-05	A Roll-to-Roll Fabrication Method for Capacitive Air-gap Touch Sensor Sangyoon Lee Konkuk University, Korea
P6-06	Sensor arrays fabricated by laser-induced forward transfer Maria Dinescu National Institute for Lasers, Plasma, and Radiation Physics, Romania
P6-07	Cloud based 3D Printing to Facilitate Open Design and Manufacturing N. Gwangwava Botswana International University of Science and Technology, Botswana