

TIME	Sunday 10 th September	
19:00-21:00	REGISTRATION (at the Registration Desk in Atlantis Aquila Hotel)	
TIME	Monday 11 th September	
8:00-14:00	REGISTRATION (at the Registration Desk in Atlantis Aquila Hotel)	
09:00-9:30	Conference Opening Ceremony (Room: Minos II) Maximos Senetakis, Deputy Minister of Development of Greece Elvira Fortunato, Minister of Science, Technology and Higher Education of Portugal	
09:30-10:15	<i>Plenary Session I - Chair: E. Stratakis & E. Kymakis - Room: Minos II</i>	
	(Plenary) Intelligentsia of Nano-Architected Hierarchical Materials Julia Greer California Institute of Technology (Caltech), USA	
10:15-11:00	(Plenary) Autophagic mechanisms and cellular homeostasis during ageing Nektarios Tavernarakis Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology-Hellas (FORTH) Medical School, University of Crete (UoC)	
11:00-11:30	COFFEE BREAK (LOBBY BAR)	
11:30-12:00	<i>WS1 & WS3 Session II - Biocompatibility and Nanotoxicity of Nano(bio)Materials I, Chair: P. Kavatzikidou Room: Minos I</i>	<i>WS2 & WS4 Session III - Chair: T. Aernouts Room: Minos II</i>
	Introductory talk to WS1 & WS3, Rena Bizios (WS1-Invited) Personalized medicine and predictive health and wellness: Adding the chemical component Anne Milasincic Andrews Departments of Chemistry & Biochemistry and Psychiatry & Biobehavioral Health, Semel Institute for Neuroscience and Human Behavior, Hatos Center for	(WS2-Invited) Indoor, outdoor and in-situ characterization strategies for Perovskite Solar Cells Monica Lira-Cantu Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and the Barcelona Institute of Science and Technology (BIST)

	Neuropharmacology, and California NanoSystems Institute, University of California, Los Angeles, USA	
12:00-12:15	<p>Assembly of layer-by-layer PLL-HA nanothick protein reservoirs on poly(glycerol sebacate) microporous implant surface</p> <p>Tomasz Urbaniak*, Paweł Piszko², Dana Kubies³, Zuzanna Podgórnika¹, Ognen Pop Georgievski³, Tomáš Riedel³, Konrad Szustakiewicz², Witold Musiał¹</p> <p>¹Department of Physical Chemistry and Biophysics, Faculty of Pharmacy, Wrocław Medical University, Wrocław, Poland</p> <p>²Department of Polymer Engineering and Technology, Faculty of Chemistry, Wrocław University of Science and Technology, Wrocław, Poland</p> <p>³Institute of Macromolecular Chemistry, Czech Academy of Sciences, Prague, Czech Republic</p>	<p>(WS2-Invited) Hybrid Materials for Energy Conversion Toward Smart Photovoltaics</p> <p>Jovana Milic Adolphe Merkle Institute, University of Fribourg</p>
12:15-12:30	<p>ESEM and AFM structural characterization of short peptide electrospun fibers</p> <p>Konstantina Mitropoulou^{1*}, Matteo Bottiglieri¹, Meital Reches², Alexander M. Bittner^{1,3}</p> <p>¹CIC nanoGUNE, (BRTA) Tolosa Hiribidea 76, 20018 Donostia-San Sebastián, Spain</p> <p>²Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem 91904, Israel</p> <p>³Ikerbasque Basque Foundation for Science, Pl. Euskadi 5, 48009 Bilbao, Spain</p>	
12:30-12:45	<p>First approach on the assessment of laser-synthesized Si nanoparticles: effects on stem cells model for potential tissue engineering application</p> <p>Clarissa Murru^{1*}, Stefano Testa², Lucas Duvert¹, Adrien Casanova¹, Frederique Magdinier², Anne-Patricia Alloncle¹, Ahmed Al-Kattan¹</p> <p>¹Aix-Marseille University, CNRS, UMR 7341, LP3, Campus de Luminy, Case 917, 13288, Marseille cedex 9, France</p> <p>²Aix-Marseille University, INSERM, Marseille Medical Genetics, MMG, 27 Bd Jean moulin 13385 Marseille, France</p>	<p>Printed electronics enabled by 2d materials: Emerging energy harvesters beyond photovoltaics and multi-functional sensors</p> <p>Konstantinos Rogdakis, Christos Polyzoidis, Katerina Anagnostou, George Veisakis, Ioannis Kalogerakis, Dimitris Tsikritzis, George Viskadourous¹ and Emmanuel Kymakis</p> <p>Department of Electrical & Computer Engineering, Hellenic Mediterranean University</p>
12:45-13:00	<p>Nano-scale functional analysis of human induced pluripotent stem cell-derived cardiomyocytes</p> <p>Michał Sarna^{1*}, Anna Dobosz² and Sylwia Bobis-Wozowicz²</p> <p>¹Department of Biophysics, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland</p>	<p>Localized laser sintering as a comprehensive additive manufacturing technology for sensing applications</p> <p>M. Pervolaraki^{1*}, E. Gagaoudakis¹, L. Zouridi^{1,2}, K. Tsimvradakis¹, E. Mantsiou¹, V. Binas^{1,3}, E. Stratakis^{1,2}</p>

	<p>²Department of Cell Biology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland</p>	<p>¹Institute of Electronic Structure and Laser (FORTH), ²Department of Materials Science and Technology, University of Crete, ³Department of Physics, University of Crete</p>
13.00-13.15	<p>Electrospun, composite-coated endotracheal tubes with controlled siRNA and drug delivery, lubricate and minimize airway injury Gabriela Gonzales¹, Solaleh Miar^{1,2}, Alisa Isaac¹, Ronit Malka³, Rena Bizios¹, Gregory Dion⁴, Teja Guda¹ ¹The University of Texas at San Antonio, San Antonio, TX, USA ²The University of Hartford, Hartford, CT, USA ³Brooke Army Medical Center, Ft. Sam Houston, TX, USA ⁴University of Cincinnati, Cincinnati, OH, USA</p>	<p>Inkjet printing of nanobiosensors: what's next? Giulio Rosati^{1*}, Massimo Urban¹, Gabriel Maroli^{1,2}, Gustavo Dalkiranis^{1,3}, Arben Merkoçi^{1,4} ¹Institut Català de Nanociència i Nanotecnologia (ICN2), ²Instituto de Investigaciones en Ingeniería Eléctrica Alfredo Desages (IIIE), Universidad Nacional del Sur – CONICET, ³Instituto de Física de São Carlos (IFSC), Universidade de São Paulo (USP), ⁴ICREA</p>
13:15-13.30	<p>Enhancement of phosphate removal using designed magnetic iron oxide nanostructures Théo Lucante^{1*}, Philippe Choquet², Manon Kretz¹, Stéphane Le Calvé⁴, Anaïs Becker⁴, Joana Vaz-Ramos^{1,4}, Ariane Zaloszc³, Sylvie Bégin-Colin¹ ¹Institut de Physique et Chimie des Matériaux de Strasbourg, UMR7504, University of Strasbourg, CNRS, 67034 Strasbourg, France ²ICUBE, UMR7357, Imagerie Préclinique - Hôpital de Hautepierre, 67412 Illkirch, France ³INSERM, UMR1109, Service pédiatrique-Hôpital de Hautepierre, 67000 Strasbourg, France ⁴Institut de Chimie et Procédés pour l'Énergie, l'Environnement et la Santé (ICPEES), UMR-7515 CNRS-Université de Strasbourg, 25 rue Becquerel, 67087 Strasbourg, France</p>	<p>Combinatorial nanomaterial inkjet printing for next-generation electrochemical transducers and devices Massimo Urban^{1*}, Giulio Rosati¹, Arben Merkoçi^{1,2} ¹Catalan Institute of Nanoscience and Nanotechnology (ICN2), ²Catalan Institution for Research and Advanced Studies (ICREA)</p>
13:30-13:45	<p>Material and size related therapy enhancing effects of metal nanoparticles in proton therapy are ruled by surface chemistry Christoph Rehbock^{1*}, Sandra Zwiehoff¹, Jacob Johnny¹, Astrid Hensel², Carina Behrends^{3,4,5}, Christian Bäumer^{3,4,5,6}, Shirley Knauer², Beate Timmermann^{3,4,6,7}, Stephan Barcikowski¹ ¹University of Duisburg-Essen, Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), Universitätsstr. 7, Essen, D-45141, Germany; ²University of Duisburg-Essen, Microbiology II, Universitätsstr. 7, Essen, D-45141, Germany; ³West German Proton Therapy Centre Essen (WPE), 45147 Essen, Germany;</p>	<p>Stable and Efficient Perovskite Solar Modules and Panel for Terrestrial and Space Applications Narges Yaghoobi Nia ¹School of Aerospace Engineering, University of Rome Sapienza, Via Salaria, 851 - 00138 Rome, Italy ²Laboratory of Photonics and Interfaces, École Polytechnique Fédérale de Lausanne, Lausanne, 1015, Switzerland</p>

	<p>⁴West German Cancer Center (WTZ), 45147 Essen, Germany; ⁵Department of Physics, TU Dortmund University, 44227 Dortmund, Germany;</p> <p>⁶German Cancer Consortium (DKTK), 45147 Essen, Germany; ⁷Department of Particle Therapy, University Hospital Essen, 45147 Essen, Germany</p>	
13:45-14:00	<p>Label-free anti-scattering 3D in vivo imaging of organisms Xiao Yuting, Chen Lianwei, Pu Mingbo*, Li Xiong, Hong Minghui and Luo Xiangang*</p> <p>State Key Laboratory of Optical Technologies on Nano-Fabrication and Micro-Engineering, Institute of Optics and Electronics, Chinese Academy of Sciences, Chengdu 610209, China. Xiamen University, Xiamen, 361005, China. Research Center on Vector Optical Fields, Institute of Optics and Electronics, Chinese Academy of Sciences, Chengdu 610209, China</p>	<p>Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm George Viskadourous, Konstantinos Rogdakis, Ioannis Kalogerakis, Emmanuel Spiliarotis, Emmanuel Kymakis Department of Electrical & Computer Engineering, Hellenic Mediterranean University</p>
14:00-15:00	LUNCH BREAK (PASIPHAE ROOM)	
15:00-15:30	<p><i>WS1 & WS3 Session IV - Biocompatibility and Nanotoxicity of Nano(bio)Materials II, Chair: A. Ranella, Room: Minos I</i></p>	<p><i>WS6 Session V - DYNASTY Session 2D materials, Chair: G. Kioseoglou Room: Minos II</i></p>
	<p>(WS1-Invited) Single Cell Nanoencapsulation: Past, Present, and Future Insung Choi</p> <p>Korea Advanced Institute of Science and Technology</p>	<p>(WS6-Invited) Exciton complexes in Transition Metal Dichalcogenide Monolayers Xavier Marie Université de Toulouse, INSA-CNRS-UPS, Laboratoire de Physique et Chimie des Nano-Objets, Toulouse, France</p>
15:30-16:00	<p>(WS3-Invited) Biocomposite materials in health protection Athanassia Athanassiou Istituto Italiano di Tecnologia, Genova</p>	<p>(WS6-Invited) Nonlinear generation and detection of valleys in atomically thin semiconductors Giancarlo Soavi Institute of Solid State Physics, Friedrich Schiller University Jena, Germany</p>
16:00-16:15	<p>Effect of surface topography on mechanotransduction of mesenchymal stem cells A. Parlanis^{1,2*}, E. Kanakousaki^{1,2}, P. Kavatzikidou¹, A. Manousaki¹, E. Stratakis^{1,3}, A. Ranella¹</p> <p>¹Foundation for Research and Technology - Hellas (FORTH), Institute of Electronic Structure and Laser (IESL), Heraklion, Greece ²Department of Biology, University of Crete, Heraklion, Greece ³Department of Physics, University of Crete, Heraklion, Greece</p>	<p>Biaxial strain tuning of exciton energy and polarization in monolayer WS₂ G. Kourmoulakis^{1,2,*}, A. Michail^{3,4}, I. Paradisanos¹, X. Marie⁵, M.M. Glazov⁶, J. Parthenios⁴, K. Papagelis^{4,5}, E. Stratakis^{1,8}, and G. Kioseoglou^{1,2}</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Heraklion, Greece ²Department of Materials Science and Technology, University of Crete, Heraklion, Greece ³Department of Physics, University of Patras, Patras, Greece</p>

		<p>⁴Institute of Chemical Engineering Sciences, Foundation for Research and Technology-Hellas, Stadiou str Platani, Patras, Greece</p> <p>⁵Universite de Toulouse, INSA-CNRS-UPS, LPCNO, 135 Av. Rangueil, Toulouse, France</p> <p>⁶Ioffe Institute, St.-Petersburg, Russia</p> <p>⁷School of Physics, Dept. of Solid-State Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece</p> <p>⁸Department of Physics, University of Crete, Heraklion Crete Greece</p>
16:15-16:30	<p>Breast implants silicon outshell bioinstructive multiscale engineering for preventing microbial and fibrosis development</p> <p>Valentina Dinca^{1*}, Simona Nistorescu¹, Anca Bonciu¹, Andreea Negrescu², Laurentiu Rusen¹, Anisoara Cimpean²</p> <p>¹FOTOPLASMAT center, NILPRP, Magurele, Romania</p> <p>²Faculty of Biology, University of Bucharest, Romania</p>	<p>Electron density control in WSe₂ monolayers via photochlorination</p> <p>E. Katsipoulaki^{1,2,*}, G. Vailakis^{1,3}, I. Demeridou¹, D. Karfaridis⁴, P. Patsalas⁴, K. Watanabe⁵, T. Taniguchi⁶, I. Paradisanos¹, G. Kopidakis^{1,3}, G. Kioseoglou^{1,3}, and E. Stratakis^{1,2}</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Heraklion, Greece</p> <p>²Department of Physics, University of Crete, Heraklion, Greece</p> <p>³Department of Materials Science and Technology, University of Crete, Heraklion, Greece</p> <p>⁴Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece</p> <p>⁵Research Center for Electronic and Optical Materials, National Institute for Materials Science, 1-1 Namiki, Tsukuba, Japan</p> <p>⁶Research Center for Materials Nanoarchitectonics, National Institute for Materials Science, 1-1 Namiki, Tsukuba, Japan</p>
16:30-16:45	<p>Calcium Phosphate NanoClay porous scaffolds promote osteogenesis and pore strain induces vascularization of included hydrogel matrix</p> <p>Mistica Perez¹, Solaleh Miar^{1,2}, Alisa Isaac^{1,3}, Joo Ong^{1,3}, Rena Bizios¹, Akhilesh Gaharwar⁴, Teja Guda^{1,3}</p> <p>¹The University of Texas at San Antonio, San Antonio, TX, USA.</p> <p>²The University of Hartford, Hartford, CT, USA.</p> <p>³University of Texas Health San Antonio, San Antonio, TX, USA</p> <p>⁴Texas A&M University, College Station, TX, USA</p>	<p>Exploring the optical near-field interaction of Mie nanoresonators with a monolayer semiconductor</p> <p>D. Katrisioti^{1,2,*}, P. R. Wiecha³, G. Larrieu³, J. Müller³, J.-M. Poumirol⁴, A. Cuhe⁴, G. Agez⁴, V. Paillard⁴, X. Marie⁵, B. Urbaszek⁶, E. Stratakis^{1,7}, G. Kioseoglou^{1,2} and I. Paradisanos^{1,5}</p> <p>¹Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology (FORTH), Heraklion, Crete, Greece</p> <p>²Department of Materials Science and Technology, University of Crete, Heraklion, Greece</p> <p>³LAAS-CNRS, Université de Toulouse, Toulouse, France</p> <p>⁴CEMES-CNRS, Université de Toulouse, Toulouse, France</p> <p>⁵Université de Toulouse, INSA-CNRS-UPS, LPCNO, Toulouse, France</p> <p>⁶Institute of Condensed Matter Physics, Technische Universität Darmstadt, Darmstadt, Germany</p> <p>⁷Department of Physics, University of Crete, Heraklion, Greece</p>
16:45-17:00	<p>Biodegradability improvement of bacterial cellulose-based materials</p> <p>Edina Rusen¹, Gabriela Isopencu¹, Gabriela Toader², Aurel Diacon^{1,2}, Adrian Dinescu³ and Alexandra Mocanu^{1,3*}</p> <p>¹University Politehnica of Bucharest, 1- 7 Gh. Polizu Street, 011061 Bucharest, Romania</p>	<p>Probing valley population imbalance in transition metal dichalcogenides with temperature-dependent second harmonic generation imaging</p> <p>L. Mouchliadis^{1*}, S. Psilodimitrakopoulos¹, G. Miltos Maragkakis^{1,2}, I. Demeridou^{1,2}, G. Kourmoulakis^{1,3}, A. Lemonis¹, G. Kioseoglou^{1,3}, and E. Stratakis¹</p>

	<p>²Military Technical Academy "Ferdinand I", 39-49 George Cosbuc Av., 050141 Bucharest, Romania</p> <p>³National Institute for Research and Development in Microtechnologies (IMT-Bucharest), 126 A, Erou Iancu Nicolae Street, 023573 Bucharest, Romania</p>	<p>¹Institute of Electronic Structure and Laser-Foundation for Research and Technology-Hellas, 70013, Heraklion, Greece</p> <p>²Physics Department, University of Crete, 71003, Heraklion, Greece ³Department of Materials Science & Technology, University of Crete, 71003, Heraklion, Greece</p>
17:00-17:15	<p>Development of Superhydrophobic Flexible Surfaces Utilizing Polymer Nanocomposite Coatings</p> <p>Kiriaki Chrissopoulou^{1*}, Thaleia-Michaela Chatzaki^{1,2}, Franceska Gojda^{1,3}, Alexandros Thomos^{1,2}, Fanourios Krasanakis¹, Minas Stylianakis^{1,4}, and Spiros H. Anastasiadis^{1,2}</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Heraklion, Crete, Greece</p> <p>²Department of Chemistry, University of Crete, Heraklion Crete, Greece</p> <p>³Department of Physics, University of Crete, Heraklion Crete, Greece</p> <p>⁴Department of Nursing, Hellenic Mediterranean University, Heraklion Crete, Greece</p>	<p>Second harmonic generation spectroscopy in van der Waals homo- and heterobilayers</p> <p>I. Paradisanos^{1*}, D. Lagarde¹, A.M.S. Raven¹, T. Amand¹, S. Shree¹, L. Lombez¹, P. Renucci¹, C. Robert¹, K. Watanabe², T. Taniguchi³, A. Balocchi¹, I. C. Gerber¹, L. Golub⁴, M. M. Glazov⁴, B. Urbaszek¹, and X. Marie¹</p> <p>¹Université de Toulouse, INSA-CNRS-UPS, LPCNO, Toulouse France</p> <p>²Research Center for Electronic and Optical Materials, NIMS, Tsukuba, Japan</p> <p>³Research Center for Materials Nanoarchitectonics, NIMS, Tsukuba, Japan</p> <p>⁴Ioffe Institute, St. Petersburg, Russia</p>
END OF DAY 1 OF NANOBIO2023 – ENJOY YOUR EVENING!		

TIME	Tuesday 12 th September		
08:30-14:15	<p align="center">REGISTRATION (at the Registration Desk in Atlantis Aquila Hotel)</p>		
9:00-9:45	<p align="center"><i>Plenary Session I - Chair: E. Kymakis & E. Stratakis - Room: Minos II</i></p>		
	<p align="center">(Plenary) Nanobiotechnology and Intelligent Materials in a Diverse, Inclusive and Convergent World Nicholas Peppas The University of Texas at Austin, USA</p>		
9:45-10:30	<p align="center">(Plenary) Metallic two dimensional materials for lithium sulphur batteries Manish Chhowalla University of Cambridge, UK</p>		
10:30-11:15	<p align="center">(Plenary) Inelastic molecular collisions & the gas mean free path in air Sotiris Pratsinis ETH Zurich, Switzerland</p>		
11:15-11:45	<p align="center">COFFEE BREAK (LOBBY BAR)</p>		
11:45-12:15	<p><i>WS1 & WS3 Session II - Subtractive and Additive Manufacturing for Biofabrication, chair: E. Babaliari, Room: Minos I</i></p>	<p><i>WS5 Session III – Nanophotonics and Biophotonics,</i></p>	<p><i>WS-NEXTCCUS 11:45-14:15 (APOLLON)</i></p>
	<p align="center">(WS3-Invited) Laser Printing Boris N. Chichkov Leibniz University Hannover, Institute of Quantum Optics, Hannover</p>	<p align="center">(WS5-Invited) Nanoscale laser writing for biomimetic photonics Min Gu University of Shanghai for Science and Technology, Shanghai, China</p>	
12:15-12:45	<p align="center">(WS3-Invited) From High-Resolution 3D Printing to Bioprinting with Multiphoton Lithography Aleksandr Ovsianikov Head of the Research Group 3D Printing and Biofabrication, TU Wien Chief Scientific Officer & Founder UpNano GmbH</p>	<p align="center">(WS5-Invited) Attosecond Field Emission Eleftherios Goulielmakis Institute of Physics, University of Rostock, Albert-Einstein-Str. 23, D-18059 Rostock, Germany</p>	

	<p>Austrian Cluster for Tissue Regeneration Vienna, Austria</p>	
12:45-13:00	<p>Laser assisted cell bio-printing and polymer structuring for the creations of bio-models Lucas Duvert^{1*}, Clarissa Muru¹, Stefano Testa², Adrien Casanova¹, Frédérique Magdinier², Anne-Patricia Alloncle¹ ¹Aix-Marseille University, CNRS, UMR 7341, LP3, Campus de Luminy, Case 917, 13288, Marseille cedex 9, France ²Aix-Marseille University, INSERM, Marseille Medical Genetics, MMG, 27 Bd Jean moulin 13385 Marseille, France</p>	<p>Post-Melting Encapsulation of Glass Microwires for the Development of Advanced Waveguides Ioannis Konidakis^{1*}, Foteini Dragosli¹, Aby Cheruvathoor Poulouse², Josef Kašlík², Aristeidis Bakandristos^{2,3}, Radek Zboril^{2,3} and Emmanuel Stratakis¹ ¹Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology - Hellas (FORTH), Heraklion-Crete, Greece ²Regional Centre of Advanced Technologies and Materials, Czech Advanced Technology and Research Institute (CATRIN), Palacký University, Šlechtitelů 27, 783 71, Olomouc, Czech Republic ³Nanotechnology Centre, Centre of Energy and Environmental Technologies, VŠB-Technical University of Ostrava, Ostrava-Poruba, Czech Republic</p>
13:00-13:15	<p>Flexible 2D and 3D conductive hydrogel platforms for wearable applications Leonor Aguiar¹, Raquel Pereira¹, Sanjiv Sharma² and Gabriela Martins^{1,3*} ¹BioMark@ISEP-CEB/LABBELS, School of Engineering, Polytechnic of Porto, R. Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal ²Department of Biomedical Engineering, Faculty of Science and Engineering, Swansea University, Swansea SA1 8EN, U.K. ³CIETI - LabRISE-School of Engineering, Polytechnic of Porto, R. Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal</p>	<p>Impact of plasmonic modes and metal thermophysical properties on the formation of self-organised nano-patterns in thin films George D. Tsididis^{1,3*}, Panagiotis Lingos¹, George Perrakis¹, Odysseas Tsilipakos^{2,1}, Emmanuel Stratakis^{1,4} ¹Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology (FORTH), Vassilika Vouton, 70013, Heraklion, Crete, Greece ²Theoretical and Physical Chemistry Institute National Hellenic Research Foundation, GR-11635 Athens Greece ³Department of Materials Science and Technology, University of Crete, 71003, Heraklion, Greece ⁴Department of Physics, University of Crete, 71003, Heraklion, Greece</p>
13:15-13:30	<p>4D printed scaffolds composed of natural polymers for bone tissue engineering P. Daskalakis^{*1,2}, C. Ntoulas¹, E. Kanakousaki^{1,4}, L. Chaniotaki^{1,5}, A. Lamprakis^{1,2}, P. Kavatzikidou¹, A. Manousaki^{1,3}, A. Ranella¹, E. Stratakis^{1,3} ¹Foundation for Research and Technology - Hellas, Heraklion, Greece ²University of Crete, School of Medicine, Heraklion, Greece ³University of Crete, Department of Physics, Heraklion, Greece ⁴University of Crete, Department of Biology, Heraklion, Greece</p>	<p>Tailoring surface topographies on solids with Mid-IR femtosecond laser pulses Stella Maragkaki¹, George D. Tsididis^{1,2}, Ludovit Haizer³, Zsuzsanna Pápa³, Roland Flender³, Bálint Kiss³, Zsuzsanna Márton³ and Emmanuel Stratakis^{1,4} ¹Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology (FORTH), Vassilika Vouton, 70013, Heraklion, Crete, Greece ²Department of Materials Science and Technology, University of Crete, 71003, Heraklion, Greece</p>

	⁵ University of Crete, Department of Materials Science, Heraklion, Greece	³ ELI-ALPS, ELI-HU Non-Profit Ltd., Wolfgang Sandner utca 3., Szeged, H-6728, Hungary ⁴ Department of Physics, University of Crete, 71003, Heraklion, Greece
13.30-13:45	3D printing of polylactic acid/cuttlefish bone biocomposites Aikaterini Gialouri ^{1*} and Nikolaos Bouropoulos ^{1,2} ¹ Department of Materials Science, University of Patras, 26504 Rio, Patras, Greece ² Foundation for Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes, 26504 Patras, Greece	Vector optical field laser micro/nano-fabrication for nonlinear materials Fang Yao, Wang Qinsong, Chen Lianwei, Ma Xiaoliang, Li Xiong*, Pu Mingbo, and Luo Xiangang* State Key Laboratory of Optical Technologies on Nano-Fabrication and Micro-Engineering, Institute of Optics and Electronics, Chinese Academy of Sciences, Chengdu 610209, China. Research Center on Vector Optical Fields, Institute of Optics and Electronics, Chinese Academy of Sciences, Chengdu 610209, China
13:45-14:00	(WS3-Invited) Sub-diffractive optical lithography beyond acrylates Sourav Islam, Georgii Gvindzhiliia, and Thomas A. Klar* Institute for Applied Physics, Johannes Kepler University Linz, 4040 Linz	Transparent and Resilient 3D Microoptics Karolis Galvanauskas ¹ , Darija Astrauskytė ² , Arūnas Čiburys ¹ , Darius Gailevičius ¹ , Andrius Melninkaitis ³ , Lina Grinevičiūtė ² , and Mangirdas Malinauskas ^{1*} ¹ Laser Research Center, Physics Faculty, Vilnius, Lithuania ² Center for Physical Sciences and Technology, Vilnius, Lithuania ³ LIDARIS Ltd, Vilnius, Lithuania
14:00-14:15		Femtosecond-Laser-Induced All-Silicon Dielectric Metasurfaces Assisted by Wet Chemical Etching Ioanna Sakellari ¹ , Sotiris Droulias ² , Andreas Lemonis ³ , and Emmanuel Stratakis ¹ ¹ Institute of Electronic Structure and Laser, Foundation for Research and Technology Hellas, Heraklion, Crete, 71110, Greece ² University of Piraeus, Piraeus, 18534, Greece ³ Biomimetic, Science and Technology Park of Crete, Heraklion, Crete, Greece.
14:15-15:15	LUNCH BREAK (PASIPHAE ROOM)	
15:15-15:45	<i>WS1 Session IV – BRIDGE Session</i> , Colloidal perovskites and quantum dots, Chair: A. Kostopoulou Room: Minos I	<i>WS4 & WS6 Session V</i> , Chair: I. Paradisanos Room: Minos II

	<p>(WS1-Invited) Halide Perovskite and Perovskite-Related Nanocrystals: Synthesis, Encapsulation, Reactivity Liberato Manna Istituto Italiano di Tecnologia, Genova</p>	<p>(WS6-Invited) Can we move from inorganic to carbon nanoallotrope thermoelectrics? 2D and 3D printing of highly efficient TEG devices Lazaros Tzounis^{*1,2,3}, Fivos Simopoulos¹, Emmanouil Porfyraakis¹, Kampourakis George¹, Papadakis Nikolaos¹ and Emmanuel Kymakis^{3,4} ¹Mechanical Engineering Department, Hellenic Mediterranean University, Heraklion, Greece ²Printed Electronic Devices of Things P.C., Volos, Greece ³Institute of Emerging Technologies (i-EMERGE) of HMU Research Center, Heraklion, Greece ⁴Department of Electrical & Computer Engineering, Hellenic Mediterranean University, Heraklion, Greece</p>
<p>15:54-16:15</p>	<p>(WS1-Invited) Colloidal Halide Perovskite Nanocrystals: Newly Emerged Sources for Polarized Light Emission Lakshminarayana Polavarapu CINBIO, Universidade de Vigo, Materials Chemistry and Physics Group, Department of Physical Chemistry, Campus Universitario Lagoas, Marcosende, 36310 Vigo</p>	<p>(WS4-Invited) 2D materials for energy applications Francesco Bonaccorso BeDimensional SpA, Via Lungotorrente Secca 30r, 16163 Genova Istituto Italiano di Tecnologia, via Morego 30, 16163 Genova</p>
<p>16:15-16:30</p>	<p>(WS1-Invited) Colloidal Semiconductor Nanocrystals: From Artificial Atoms to Artificial Molecules Uri Banin Institute of Chemistry and the Center for Nanoscience and Nanotechnology, The Hebrew University of Jerusalem, Jerusalem 91904, Israel</p>	<p>Studying the interfacial interactions in polymer/GO nanocomposite materials I. Karnis^{1,2*}, F. Krasanakis¹, and K. Chrissopoulou¹ ¹Institute of Electronic Structure and Laser, Foundation for Research and Technology Hellas, Heraklion, Crete, Greece ²Department of Chemistry, University of Crete, Heraklion Crete, Greece</p>
<p>16:30-16:45</p>		<p>Single and double pulse UV- femtosecond laser-induced breakdown spectroscopy (LIBS) for depth-resolved characterization of nano-scaled films N. Giannakaris¹, P. Siozos^{2*}, V. Pinon², S.P. Banerjee³, M. Sentis³, D. Anglos^{2,4} ¹Institute of Applied Physics, Johannes Kepler University Linz, A-4040 Linz, Austria ²Institute of Electronic Structure and Laser (IESL), FORTH, Heraklion, Crete, Greece ³LP3 Laboratory, Case 917, 163 Avenue de Luminy, Marseille, France ⁴Department of Chemistry, University of Crete, Heraklion, Crete, Greece</p>

16:45-17:00	<p>Laser-assisted Processes on Metal Halide Perovskite Nanocrystals: Shape/Dimensionality Transformations and Conjugation with 2D Materials</p> <p>K. Brintakis^{1,*}, A. Kostopoulou¹, E. Stratakis^{1,2}</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Heraklion, Crete, Greece</p> <p>²Physics Department, University of Crete, Heraklion, Crete, Greece</p>	<p>2D Bismuthene as a Functional Interlayer for Enhanced Oxygen-Evolution BiVO₄ Photoanodes</p> <p>S. Eslava^{1*}, J. Cui¹, M. Daboczi¹, S. Gimenez², and J.S. Kim³</p> <p>¹Department of Chemical Engineering and Centre for Processable Electronics, Imperial College London, London, United Kingdom</p> <p>²Institute of Advanced Materials (INAM), Universitat Jaume I, Castelló, Spain</p> <p>³Department of Physics and Centre for Processable Electronics, Imperial College London, London, United Kingdom</p>
17:00-17:15	<p>The role of doping in all-inorganic mixed-halide perovskites for ozone sensing</p> <p>A. Argyrou^{1,2,*}, K. Brintakis¹, E. Gagaoudakis¹, V. Binas¹, R. Giappa³, I. Remediakis³, A. Kostopoulou¹, E. Stratakis¹</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research & Technology-Hellas, P.O. Box 1527, Vassilika Vouton, 70013 Heraklion, Greece</p> <p>²University of Crete, Department of Chemistry, Vassilika Vouton, 70013 Heraklion, Greece</p> <p>³University of Crete, Department of Material Science and Technology, Vassilika Vouton, 70013 Heraklion, Greece</p>	<p>PANI/MoS₂ based NH₃ sensor</p> <p>A. Jain^{1,2*}, A. MP² and S. Panda^{1,2}</p> <p>¹Department of Chemical Engineering, Kanpur, India</p> <p>²National Centre for Flexible Electronics, Kanpur, India</p>
17:15-17:30	<p>Metal Halide Perovskites as Gas Sensing Elements: From Micro to Nano</p> <p>Konstantina Alexaki^{1*}, Athanasia Kostopoulou¹, Konstantinos Brintakis¹, Aikaterini Argyrou^{1,2}, and Emmanuel Stratakis^{1,3}</p> <p>¹Foundation For Research And Technology Hellas (FORTH), Institute Of Electronic Structure & Laser (IESL), Heraklion, Greece</p> <p>²University of Crete, Department of Chemistry, Heraklion, Greece</p> <p>³University of Crete, Department of Physics, Heraklion, Greece</p>	<p>Electrical and Magnetic Features of Heterometallic Oxalate Coordination Polymers with 2D Layers: Oxide-Related Use</p> <p>M. Jurić^{1*}, A. Lozančić¹, L. Molčanov¹, S. Renka¹, D. Pajić², D. Barišić², M. Vrankić¹ and S. Burazer¹</p> <p>¹Ruđer Bošković Institute, Zagreb, Croatia</p> <p>²Department of Physics, Faculty of Science, University of Zagreb, Zagreb, Croatia</p>
17:30-17:45	<p>Materials modeling for environmental catalysis: from metal nanoparticles to halide perovskites</p> <p>Rafaela Maria Giappa^{1*}, Apostolos Pantousas¹, Constantinos C. Stoumpos², George Kopidakis^{1,2} and Ioannis N. Remediakis^{1,2}</p> <p>¹Department of Materials Science and Technology, University of Crete, Heraklion, Greece</p> <p>²Institute of Electronics Structure and Laser, Foundation for Research and Technology (IESL-FORTH), Heraklion, Greece</p>	<p>END OF SESSION</p>
<p>END OF DAY 2 OF NANOBIO2023 – ENJOY YOUR EVENING!</p>		

TIME	Wednesday 13th September	
8:30-13:45	REGISTRATION (at the Registration Desk in Atlantis Aquila Hotel)	
09:00-09:30	<i>WS1 & WS3 Session I - NanoMedicine, Chair: L. Papadimitriou Room: Minos I</i>	<i>WS2 Session II - Chair: M. Lira-Cantu Room: Minos II</i>
	(WS3-Invited) Nanotechnology Approaches for Biology and Medicine Paul Weiss University of California Los Angeles	(WS2-Invited) Efficient Structures And Processes for Upscaling of Perovskite Modules and Tandems Tom Aernouts IMEC
09:30-10:00	(WS3-Invited) Mapping the protein corona around endocytosed nanoparticles Wolfgang Parak Universität Hamburg	(WS2-Invited) Bifacial perovskite photovoltaic for See-through and tandem applications Aldo Di Carlo Institute of Structure of Matter - CNR, Rome Italy CHOSE-University of Rome Tor Vergata
10:00-10:15	Quantitative analysis of the size dependency for cellular entry and excretion of colloidal nanoparticles Neus Feliu ^{1*} , Wolfgang J. Parak ² ¹ Zentrum für Angewandte Nanotechnologie CAN, Fraunhofer-Institut für Angewandte Polymerforschung IAP, Hamburg, Germany ² Universität Hamburg, Hamburg, Germany	(WS2-Invited) Mesoscale ordered two-dimensional semiconductor polymers with Dirac cones and flat bands by on-surface synthesis Giorgio Contini ^{1,2} ¹ Istituto di Struttura della Materia-CNR (ISM-CNR), Via Fosso del Cavaliere 100, 00133 Roma, Italy ² Department of Physics, University Tor Vergata, Via della Ricerca Scientifica 1, 00133 Roma, Italy
10:15-10:30	Cell specific targeting of Lipid Nanoparticles Panagiota Papadopoulou ¹ , Gabriela Arias-Alpizar ² , Rianne van der Pol ¹ , Niek van Hilten ¹ , Winant van Os ¹ , Mohammad-Amin Moradi ³ , Nico Sommerdijk ³ , Jordi Llop ⁴ , Jelger Risselada ¹ , Agur Sevink ¹ , Frederick Campbell ¹ and Alexander Kros ¹ ¹ Leiden Institute of Chemistry, Leiden University, the Netherlands ² Leiden Academic Center of Drug Research, Leiden University, the Netherlands ³ Eindhoven University of Technology, the Netherlands ⁴ CIC biomaGUNE, Basque Research and Technology Alliance, Spain	
10:30-10:45	Vcam-1 expression screening for therapeutic and diagnostic purposes Maria Grekioti ^{1*} , Lina Papadimitriou ¹ , Eirini Koutsouroubi ¹ , Yannis	(WS2-Invited) Probing single molecules in active molecular layers of devices

	Papaharilaou ³ Alexandros Lappas ¹ and Anthi Ranella ¹ ¹ IESL FORTH, Heraklion, Greece ³ IACM FORTH, Heraklion, Greece	Shadi Fatayer King Abdullah University of Science and Technology
10:45-11:00	Nanocomposite cell culture substrates produced by printed electronics techniques for cell stimulation Łucja Dybowska-Sarapuk ^{1*} , Weronika Sosnowicz ¹ , Paulina Trzaskowska ¹ , Anna Grzeczkwicz ² , Małgorzata Jakubowska ¹ ¹ Centre for Advanced Materials and Technologies Warsaw University of Technology, Warsaw, Poland ² Nalecz Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences, Warsaw, Poland	
11:00-11:15	Evaluation of intra and extracellular pH detection capabilities of plasmonic nanoprobe Gail A. Vinnacombe-Willson ¹ and Luis M. Liz-Marzán ^{1*} ¹ BioNanoPlasmonics Laboratory, CIC biomaGUNE, Basque Research and Technology Alliance (BRTA), 20014 Donostia-San Sebastián, Spain	Nanophotonics for thin-film perovskite solar cells A. Furasova ITMO University
11:15-11:45	COFFEE BREAK (LOBBY BAR) All the Poster Presenters of POSTER SESSION could place their Poster on the Poster Stands – Go to Registration Desk for adhesive material	
11:45-12:15	<i>WS1 & WS3 Session III - Advanced Diagnostics and Nanocharacterisation I, Chair: P. Weiss, Room: Minos I</i>	<i>WS5 Session IV - Nanophotonics and Biophotonics, chair: I. Konidakis, Room: Minos II</i>
	(WS1-Invited) Sustainable nanobiosensors for diagnostics Arben Merkoci Catalan Institute of Nanoscience and Nanotechnology (ICN2), UAB Campus, Bellaterra, Barcelona, 08193 Spain	(WS5-Invited) Ultracompact perovskite lasers integrated with waveguiding systems Sergey Makarov School of Physics and Engineering, ITMO University, Lomonosova, 9, Saint-Petersburg 191002, Russia
12:15-12:45	(WS1-Invited) Graphene oxide electrodes for bio-sensing and bio-stimulation Vincenzo Palermo ^{1,2,*} , Roberta Fabbri ¹ , Alessandro Kovtun ¹ , Diletta Spennato ¹ , Giorgia Conte ¹ , Andrea Candini ¹ , Filippo Valorosi ¹ , Emanuela Saracino ¹ , Katerina Konstantoulaki ¹ , Chiara Lazzarini ¹ , Manuela Melucci ¹ , Emanuele Treossi ¹ , Chiara Zanardi ^{1,3} , Valentina Benfenati	(WS5-Invited) Colloidal quantum dot infrared optoelectronics: LEDs, Lasers and Photodetectors Gerasimos Konstantatos ICFO - Institut de Ciències Fotòniques, The Barcelona Institute of Science and Technology, Castelldefels, Barcelona 08860, Spain ICREA-Institució Catalana de Recerca i Estudis Avançats, Barcelona 08010, Spain

	<p>¹ Institute for Organic Synthesis and Photoreactivity (ISOF), National Research Council of Italy (CNR), Bologna, Italy. ² Department of Industrial and Materials Science, Chalmers University of Technology, Gothenburg, Sweden. ³ Department of Molecular Sciences and Nanosystems, Ca' Foscari University of Venice, Venice, Italy.</p>	
12:45-13:00	<p>Augmentation of the Standalone Multiplexed Extended-Gate Field-Effect Transistor Immunosensor Response with Gold Nanoparticle/Antibody Bioconjugates Željko Janičijević^{1*}, Trang-Anh Nguyen-Le¹, Ahmed Alsadig¹, Rugilė Žilėnaitė^{1,2}, Taufhik Hossain Tonmoy¹, Manja Kubeil¹, Michael Bachmann¹ and Larysa Baraban¹ ¹Institute of Radiopharmaceutical Cancer Research, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany ²Institute of Chemistry, Faculty of Chemistry and Geosciences, Vilnius University, Vilnius, Lithuania</p>	<p>Polarization-Resolved Optical Second Harmonic Generation microscopy in 2D Materials S. Psilodimitrakopoulos^{1*}, L. Mouchliadis¹, G. M. Maragkakis^{1,2}, G. Kourmoulakis^{1,3}, I. Demeridou¹, A. Lemonis¹, G. Kioseoglou^{1,3} and E. Stratakis¹ ¹Institute of Electronic Structure and Laser-Foundation for Research and Technology-Hellas, GR-711 10, Heraklion, Greece ²Department of Physics, University of Crete, 71003 Heraklion, Greece ³Department of Materials Science, University of Crete, 71003 Heraklion, Greece</p>
13:00-13:15	<p>Nanobiosensor for the Impedimetric Detection of SARS-CoV-2 Antigens and Antibodies Using Interdigitated Gold Nanowires Diana Isabel Sandoval Bojorquez^{1*}, Željko Janičijević¹, Brenda Palestina Romero¹, Eduardo Sergio Oliveros Mata², Markus Laube¹, Anja Feldmann¹, Alexandra Kegler¹, Laura Drewitz¹, Ciarán Fowley², Jens Pietzsch¹, Jürgen Fassbender², Torsten Tonn³, Michael Bachmann¹, Larysa Baraban¹. ¹Institute of Radiopharmaceutical Cancer Research, Helmholtz-Zentrum Dresden-Rossendorf e. V. (HZDR), Dresden, Germany ²Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR), Dresden, Germany ³Department for Experimental Transfusion Medicine, German Red Cross Blood Donation Service North-East, Dresden, Germany.</p>	<p>Polarization-resolved third harmonic generation (P-THG) of myelin inside optic nerves Maria Kefalogianni^{1,2*}, Leonidas Mouchliadis¹, Niki Ktena^{3,4}, Stefanos Kaplanis^{3,4}, Ilias Kalafatakis^{3,4}, Sotiris Psilodimitrakopoulos¹, Domna Karagogeos⁴, Emmanuel Stratakis^{1,2} ¹Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Heraklion Crete, 71110, Greece ²Department of Physics, University of Crete, Heraklion Crete, 71003, Greece ³Department of Basic Sciences, Faculty of Medicine, University of Crete, Heraklion Crete, 71003, Greece ⁴Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology</p>
13:15-13:30	<p>(WS1-Invited) Plasmonic Bio-Sensing with Photonic Integrated Circuits Dimitris Tsiokos D. Tsiokos^{1*}, S. Suckow², A. Manolis¹, C. Eleftheriou¹, M.A. El-Rabiaey¹,</p>	<p>Thermally-induced mechanical switching of the second harmonic generation in pNIPAM hydrogels-linked Au and Si nanoparticles E N. Gerasimova^{1*}, V. V. Yaroshenko¹, L V. Mikhailova¹, D. M. Dolgintsev¹, A. S. Timin¹, M. V. Zyuzin¹, D. A. Zuev¹</p>

	<p>G. Tsekenis¹, Sabato D'Auria³, Antonio Varriale⁴, Alessandro Capo⁴, B. Chmielak², O. Bhalerao^{2,5}, A. L. Schall-Giesecke^{2,6}, M. L. Lemme^{2,5}, K. Fotiadis^{7,8}, E. Chatzianagnostou^{7,8}, Dimosthenis Spasopoulos^{7,8}, Stelios Simos^{7,8}, Nikos Pleros^{7,8} and L. Lidorikis^{7,8}</p>	<p>¹Department of Physics, ITMO University, Kronverksky Pr. 49, bldg. A, 197101 St. Petersburg, Russian Federation</p>
<p>13:30-13:45</p>	<p>1 bialoom Ltd, Nicosia, Cyprus 2 AMO GmbH, Aachen, Germany 3 Department of Biology, Agriculture and Food Science, CNR, Rome, Italy 4 ISA-CNR, Institute of Food Science, Avellino, Italy. 5 Chair of Electronic Devices, RWTH Aachen University, Aachen, Germany 8 Chair of Electronic Components and Circuits, University of Duisburg-Essen, and Fraunhofer IMS, Duisburg-Essen, Germany 7 Department of Informatics, Aristotle University of Thessaloniki, Greece 8 Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Thessaloniki, Greece</p>	<p>END OF SESSION</p>
<p>13:45-15:00</p>	<p>LUNCH BREAK (PASIPHAE ROOM) All the Poster Presenters of POSTER SESSION could place their Poster on the Poster Stands – Go to Registration Desk for adhesive material</p>	
<p>15:00-17:00</p>	<p>POSTER SESSION To all Poster Presenters – Please be by your Poster at all times!</p>	
<p>20:00</p>	<p>CONFERENCE GALA DINNER</p>	

TIME	Thursday 14 th September	
09:00-14:00	REGISTRATION DESK - OPEN	
9:30-10:00	<i>WS1 & WS3 Session I - Advanced Diagnostics and Nanocharacterisation II, Chair: W. Parak, Room: Minos I</i>	<i>WS4 - Emerging Printed Electronics and Bioelectronics, Chair: K. Rogdakis, Room: Minos II</i>
	(WS1-Invited) Sensing polynucleotides with nanomaterials Antonios Kanaras University of Southampton	(WS4-Invited) Scalable NanoManufacturing of Sustainable Electronics Thomas Anthopoulos King Abdullah University of Science and Technology (KAUST)
10:00-10:15	A Nanotransducer Mediated Approach to Genome Editing F. Tantussi ^{1*} , S. Konstantinidou ² , A. De Carli ³ , D. Witt ⁴ , A. Lindstaedt ⁴ , M. D'Amora ^{1,2} , M. Lai ³ , A. Everhardt ⁵ , F. Fuso ⁶ , P. Barski ⁴ , V. Raffa ² , F. de Angelis ¹ ¹ Plasmon Nanotechnologies, Istituto Italiano di Tecnologia, Genova, Italy; ² Department of Biology, University of Pisa, Pisa, Italy; ³ Department of Medicine, University of Pisa, Pisa, Italy; ⁴ ProChimia Surfaces, Gdynia, Poland; ⁵ LioniX International, Enschede AL, The Netherlands ⁶ Department of Physics, University of Pisa, Pisa, Italy	(WS4-Invited) Metabolite-induced in vivo fabrication of substrate-free organic bioelectronics Daniel Simon Linköping University, Sweden
10:15-10:30	Synthesis, detection, and actuation of self-assembling DNA nanostructures Ibon Santiago ^{1*} ¹ CIC nanoGUNE BRTA, Donostia-San Sebastián 20018, Spain	
10:30-10:45	Biomimetic nano-vesicles for intelligent RNA delivery Stefania Garbujo ^{1*} , Miriam Colombo ¹ , and Davide Prospero ¹ ¹ NanoBioLab, University of Milano-Bicocca, Dep. Of Biotechnology and Biosciences, Milano Italy	(WS4-Invited) Organic electrochemical neurons and synapses with ion-mediated spiking Simone Fabiano

<p>10:45-11:00</p>	<p>Controlling the Synthesis of Iron Oxide Based Nanomaterials and Nanocomposites with Advantageous Features for Biomedical Applications</p> <p>Liudmyla Storozhuk^{1,2*} and Rachel A. McKendry^{1,3}</p> <p>¹London Centre for Nanotechnology, University College London, 17-19 Gordon Street, London, WC1H 0AH, UK</p> <p>²Department of Physics and Astronomy, University College London, London, WC1E 6BT, UK</p> <p>³Division of Medicine, University College London, London WC1E 6BT, UK</p> <p>Storozhuk</p>	<p>Linköping University</p>
<p>11:00-11:15</p>	<p>A comprehensive orthogonal study on the interaction of nanoparticles with mucin</p> <p>Matteo Tollemeto^{1*}, Isidro Badillo Ramirez¹, Lasse Højlund Eklund Thamdrup¹, Yudong Li², Tania Patiño Padial², Jan van Hest², Anja Boisen¹</p> <p>¹The Danish National Research Foundation and Villum Foundation's Center IDUN, Department of Health Technology, Technical University of Denmark, Kgs. Lyngby, Denmark.</p> <p>²Laboratory of Chemical Biology, Institute for Complex Molecular Systems, Eindhoven University of Technology, Eindhoven, The Netherlands</p>	<p>(WS4-Invited) Bioelectronic devices and Therapeutic applications: The selective Vagus Nerve Stimulation as a paradigm of the new Bioelectronic Medicine era</p> <p>Dimitrios Koutsouras IMEC the Netherlands</p>
<p>11:15-11:30</p>	<p>Ultrathin water layers on viruses</p> <p>A.M. Bittner^{1*}, M.A. Iriarte-Alonso¹, J.H. Melillo², S. Cerveny², S. Chiantia³</p> <p>¹CIC nanoGUNE (BRTA)/Ikerbasque, San Sebastián/Bilbao, Spain;</p> <p>²Donostia. Intl. Phys. Center and Centro Fís. Mat., San Sebastián, Spain; ³Potsdam University, Germany</p>	

COFFEE BREAK (LOBBY BAR)		
11:45-12:00		
12:00-12:30	<p><i>WS1 & WS3 Session III - Micro and Nanofabrication, chair: A. Kanaras, Room: Minos I</i></p> <p>(WS3-Invited) Densified Collagen Conduits for Vascular Grafts Athina Markaki Cambridge University</p>	<p><i>WS4 & WS6 Session III Chair: T. Anthopoulos, Room: Minos II</i></p> <p>(WS6-Invited) Recent advances on graphene grown on liquid metal catalysts: synthesis, in situ monitoring and direct separation Costas Galiotis University of Patras, Chemical Engineering Department, 26504 Patras, Greece Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas</p>
	<p>(WS3-Invited) Bottom-up engineering of 3D microtissues using cell-instructive microbionanomaterials as tissue matrix-mimicking building blocks Niloofar Tahmasebi Maastricht University, The Netherlands</p>	<p>(WS6-Invited) Chemical and physical sensing with two-dimensional materials Paolo Samori University of Strasbourg & CNRS</p>
12:30-13:00		
13:00-13:15	<p>Adipose-derived extracellular matrix foams with integrated reduced graphene oxide as implantable scaffolds for neural regeneration Papadimitriou Lina^{1*}, Paula Marques², Beatriz Olalde³, Emmanuel Stratakis¹ and Anthi Ranella¹ ¹Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas (FORTH), Heraklion, Greece ²TEMA - Centre for Mechanical Technology and Automation, Department of Mechanical Engineering, University of Aveiro, 3810-193 Aveiro, Portugal ³TECNALIA, Basque Research and Technology Alliance (BRTA), E20009 Donostia-San Sebastian, Spain</p>	<p>(WS4-Invited) Functionalized carbon fiber yarns for application in 1D supercapacitors and triboelectric devices Luis Pereira 1 CENIMAT i3N, Department of Materials Science, NOVA School of Science and Technology, NOVA University Lisbon and CEMOP/UNINOVA, Campus da Caparica, Caparica 2829-516, Portugal 2 AlmaScience, Campus da Caparica, Caparica 2829-516</p>

13:15-13:30	<p>Study of in vitro differentiation of NE-4C cells encapsulated in 3D adipose derived-ECM hydrogels</p> <p>Kyriaki Stampouli^{1*}, Lina Papadimitriou¹ and Andrea García-Lizarribar², Beatriz Olalde², Anthi Ranella¹</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas (FORTH), Heraklion, Greece</p> <p>²TECNALIA, Basque Research and Technology Alliance (BRTA), E20009 Donostia-San Sebastian, Spain</p>		
13:30-13:45	<p>Controlling Aerosol-Jet Printed Mxene Flakes Morphology for Neutral Applications</p> <p>Javier Gutierrez-Gonzalez^{1,2,3*}, Dahnna Spurling², Tara McGuire¹, Ian Woods^{1,3}, Adrian Dervan¹, Fergal J. O'Brien^{1,3} and Valeria Nicolosi^{2,3}.</p> <p>¹Tissue Engineering Research Group, Dept. of Anatomy & Regenerative Medicine, Royal College of Surgeons in Ireland (RCSI), Dublin, Ireland</p> <p>²School of Chemistry, Trinity College Dublin (TCD), Dublin 2, Ireland</p> <p>³Advanced Materials Bio-Engineering Research Centre (AMBE, RCSI and TCD)</p>	<p>(WS4-Invited) Oxide thin-film transistors as enablers of innovative flexible electronics: the examples of e-textiles and ionizing radiation detectors</p> <p>Pedro Barquinha</p> <p>CENIMAT i3N, NOVA School of Science and Technology</p>	
13:45-14:00	<p>Statin-loaded biodegradable micropatterned polymeric replicas on osteogenic differentiation</p> <p>Eleni Kanakousaki^{1,2*}, Paraskevi Kavatzikidou¹, Despoina Angelaki^{1,3}, Alexandra Manousaki¹, Emmanuel Stratakis^{1,3} and Anthi Ranella¹</p> <p>¹Foundation for Research and Technology-Hellas (FORTH), Institute of Electronic Structure and Laser (IESL), Heraklion, Greece</p> <p>²Department of Biology, University of Crete, Heraklion, Greece</p> <p>³Department of Physics, University of Crete, Heraklion, Greece</p>		
14:00-15:00	<p>LUNCH BREAK (PASIPHAE ROOM)</p>		
15:00-15:30	<p><i>WS1 Session V - Nanomaterials for catalysis, energy storage and sensing, chair: L. Manna, Room: Minos I</i></p>	<p><i>WS1 & WS3 Session VI - Tissue Platforms for disease modelling and drug testing, chair: A. Markaki, Room: Minos II</i></p>	<p>WS-EMERGE 15:00-17:00 (APOLLON)</p>
	<p>(WS1-Invited) Densely and Selectively Functionalized Graphenes for Energy Storage and Catalysis</p> <p>Aristides Bakandritsos</p> <p><i>Palacký University Olomouc and Technical University of Ostrava</i></p>	<p>(WS1-Invited) Nanomedicine: Human Clinical Results with Nanomaterials</p> <p>Thomas Webster</p> <p>School of Health Sciences and Biomedical Engineering, Hebei University of Technology, Tianjin</p>	

<p>15:30-15:45</p>	<p>Nanostructures of graphitic carbon nitride (g-C₃N₄) for optosensing applications Spyros Kokkotos^{1,2}, Evangelia Vasilaki^{1,3}, Maria Vamvakaki^{1,3}, Argyro Klini¹ ¹IESL/FORTH, N. Plastira 100, GR 700 13, Heraklion, Crete, Greece ²Department of Physics, University of Crete, GR 700 13, Heraklion, Crete, Greece ³Department of Materials Science and Technology, University of Crete, GR 700 13, Heraklion, Crete, Greece</p>	<p>Cytotoxicity effect of zinc oxide (ZnO) nanoparticles under static and dynamic culture conditions Eleftheria Babaliari^{1*}, Dionysios Xydias^{1,2}, Maria Kefalogianni^{1,3}, Anna Pantelaoui^{1,4,5}, Sotiris Psilodimitrakopoulos¹, Paraskevi Kavatzikidou¹, Anthi Ranella¹ and Emmanuel Stratakis^{1,3} ¹Foundation for Research and Technology – Hellas (F.O.R.T.H.), Institute of Electronic Structure and Laser (I.E.S.L.), Heraklion, Crete, Greece ²Department of Materials Science and Technology, University of Crete, Heraklion, Crete, Greece ³Department of Physics, University of Crete, Heraklion, Crete, Greece ⁴University of Crete, Heraklion, Crete, Greece ⁵Technical University of Crete, Heraklion, Crete, Greece</p>
<p>15:45-16:00</p>	<p>Monitoring Volatile Signatures in Food, Health and Environment Applications Jonathan Beauchamp Fraunhofer IVV, Freising, Germany</p>	<p>Viscosity influence on human hepatoma tumor spheroids formation in core-shell alginate-carboxymethylcellulose microcapsules Xuan Peng,^{1*} Željko Jančićević,¹ Sandy Lemm,¹ Markus Laube,¹ Jens Pietzsch,¹ Michael Bachmann,¹ Larysa Baraban¹ ¹Helmholtz-Zentrum Dresden-Rossendorf, Institute of Radiopharmaceutical Cancer Research, 01328 Dresden, Germany</p>
<p>16:00-16:15</p>	<p>Chitosan-Modified Polyethyleneimine Nanoparticles for Enhancing the Carboxylation Reaction and Plants' CO₂ Uptake Cyril Routier^{1*}, Lorenzo Vallan², Yohann Daguerre³, Marta Juvany³, Emin Istif², Daniele Mantione^{2,4}, Cyril Brochon², Georges Hadziioannou², Åsa Strand⁵, Torgny Näsholm³, Eric Cloutet², Eleni Pavlopoulou^{2,6}, and Eleni Stavrinidou^{1,3} ¹Laboratory of Organic Electronics, Department of Science and Technology, Linköping University, SE-60174, Norrköping, Sweden. ²Laboratoire de Chimie des Polymères Organiques (LCPO-UMR 5629), Université de Bordeaux, Bordeaux INP, CNRS, F-33607 Pessac, France. ³Umeå Plant Science Centre, Department of Forest Genetics and Plant Physiology, Swedish University of Agricultural Sciences, SE-90183 Umeå, Sweden. ⁴POLYMAT, University of the Basque Country UPV/EHU, 20018 San Sebastián, Spain ⁵Umeå Plant Science Centre, Department of Plant Physiology, Umeå University, SE 901-87 Umeå, Sweden. ⁶Institute of Electronic Structure and Laser, Foundation for Research and Technology – Hellas, P.O. Box 1527, 71110 Heraklion Crete, Greece.</p>	<p>In vitro cytotoxicity of polymeric-based theranostic nanocarriers for drug delivery in central nervous system disorders Magdalena Prochner^{1*}, Marta Szczęch², Magdalena Regulska¹, Monika Leśkiewicz¹, Krzysztof Szczepanowicz², Władysław Lason¹, Agnieszka Basta-Kaim¹ and Piotr Warszyński² ¹Maj Institute of Pharmacology, Polish Academy of Sciences, Krakow, Poland ²Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Krakow, Poland</p>

<p>16:15-16:30</p>	<p>Nano-sized Co-Ce catalysts for the preferential CO oxidation in hydrogen rich gases -influence of the support and preparation method</p> <p><u>Silviya Zh. Todorova</u>^{1*}, Bozhidar K. Grahovski, Diana G. Filkova, Iliyana Hristova, Hristo G. Kolev, Daniela B. Karashanova</p> <p>¹Institute of Catalysis, Bulgarian Academy of Sciences, Acad. G. Bonchev St., Bldg. 11, 1113 Sofia, Bulgaria</p> <p>²Institute of Optical Materials and Technologies "Acad. Jordan Malinowski", Bulgarian Academy of Sciences, Acad. G. Bonchev St., Bldg. 109, 1113 Sofia, Bulgaria</p>	<p>Cytotoxicity and Drug Release Assessment of the reduced graphene oxide films and ocular patches</p> <p>Paraskevi Kavatzikidou^{1*}, Phanee Manganas¹, Katerina Anagnostou², Evangelos Skoulas¹, Stella Maragkaki¹, Alexandra Manousaki¹, Minas M. Stylianakis^{1,2}, Dimitrios M. Kosmidis², Vasileios Selimis⁴, Ilias Maragos⁴, Ioannis M. Aslanides⁴, Emmanuel Kymakis², Anthi Ranella¹, Emmanuel Stratakis¹</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology – Hellas (FORTH-IESL), Heraklion, Crete, Greece</p> <p>²Electrical & Computer Engineering Department, Hellenic Mediterranean University, Heraklion, Crete, Greece</p> <p>⁴Emmetropia Mediterranean Eye Institute, Heraklion, Crete, Greece</p>
<p>16:30-16:45</p>	<p>Cork based sensing platform for an inflammatory biomarker detection in Point-of-Care</p> <p>Bárbara Correia,^a Daniela Oliveira^{a,b}, Georgeta Vulpe^c, Ana P.M. Tavares^d, M. Goreti, F. Sales^d, Abel J. Duarte, Sanjiv Sharma^c and Felismina T.C. Moreira^{a,b*}</p> <p>^aBioMark@ISEP-CEB/LABBELS, School of Engineering, Polytechnic of Porto, R. Dr. António Bernardino de Almeida, 431, 4249-015 Porto,</p> <p>^bLabRISE-CIETI - School of Engineering, Polytechnic of Porto, R. Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal</p> <p>^cDepartment of Biomedical Engineering, Faculty of Science and Engineering, Swansea University, Swansea SA1 8EN (UK)</p> <p>^dBioMark@UC-CEB/LABBELS, Faculty of Sciences and Technology, University of Coimbra, R. Sílvio Lima, Pólo II, 3030-790 Coimbra, Portugal</p> <p>^eREQUIMTE, School of Engineering, Polytechnic Institute of Porto, Porto, 4200-072, Portugal</p>	<p>Development of a nano drug delivery system based on MCM-48 and polyoxometalates for poorly soluble drug, Glipizide</p> <p>Debatrayee Dasgupta^{1*} and Anjali Patel¹</p> <p>¹Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat-390 002, India</p>

16:45-17:00	<p>Synthesis and characterization of cationic polymer-capped AuNPs for application in molecular diagnostics</p> <p>Stylianos Grammatikos^{1,2*}, Ioannis Svoliantopoulos^{1,3} and Electra Gizeli^{1,2}</p> <p>¹Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology-Hellas, 100 N. Plastira Str., 70013 Heraklion, Greece</p> <p>²Department of Biology, University of Crete, 70013 Voutes, Heraklion, Greece</p> <p>³Department of Chemistry, University of Crete, 70013 Voutes, Heraklion, Greece</p>	<p>Structural, Electrical, and Optical Properties of Organic-Inorganic Thin Films Based on Natural Alkaloids and Halometallates(II)</p> <p>Lidija Androš Dubraja^{1*}, Mia Mesić¹ and Marko Dunatov¹</p> <p>¹Ruđer Bošković Institute, Zagreb, Croatia</p>
<p>END OF DAY 4 OF NANOBIO2023 – ENJOY YOUR EVENING!</p>		

TIME	Friday 15 th September		
09:00-13:30	REGISTRATION DESK - OPEN		
09:00-9:45	<i>Plenary Session I – Chair: E. Kymakis & E. Stratakis – Room: Minos II</i>		
	(Plenary) Materials for Eco-Design Strategies for an Innovative Industry Rodrigo Martins CENIMAT I3N and CEMOP/UNINOVA, Faculty of Sciences and Technology, NOVA University Lisbon, Portugal		
09:45:10:30	(Plenary) Thin Film Implants for Bioelectronic Medicine George Malliaras University of Cambridge, UK		
10:30-11.15	Presentation of NFFA-Europe and EMERGE Projects		
11:15-11:45	COFFEE BREAK (LOBBY BAR)		
11:45-12:15	<i>WS1 & WS3 Session II -Theranostics, Drug Delivery, Magnetic hyperthermia, Chair: K. Chrissopoulou, Room: Minos I</i>	<i>WS4 Session III - Emerging Printed Electronics and Bioelectronics, Chair: Maria Pervolaraki, Room: Minos II</i>	WS-EMERGE 12:45-15:00 <i>(please check additional information at the Conference site)</i>
	(WS1-Invited) Overcoming resistance to nano-immunotherapy in solid tumors Triantafyllos Stylianopoulos University of Cyprus	(WS4-Invited) PyzoFlex® matrix: How to combine printed ferroelectric sensors and organic transistors for vital parameter, tactile pressure and proximity sensing Barbara Stadlober ¹ , Andreas Petritz ¹ , Esther Karner-Petritz ¹ , Herbert Gold ¹ , Andreas Tschepp ¹ , Martin Zirkl ¹ , Manfred Adler ¹ , Takafumi Uemura ^{2,3} , Teppei Araki ^{2,3} , Micael Charbonneau ⁴ , Romain Coppard ⁴ , Marco Fattori ⁵ , Eugenio Cantatore ⁵ , and Tsuyoshi Sekitani ^{2,3} ¹ Joanneum Research, Institute for Sensor, Photonics and Manufacturing Technologies, Weiz, Austria ² The Institute of Scientific and Industrial Research, Osaka University, Ibaraki, Osaka, Japan ³ AIST Advanced Photo-Bio Lab, Photonics Center Osaka University, Suita, Osaka, Japan ⁴ CEA-LITEN, Grenoble, France ⁵ Eindhoven University of Technology, Department of Electrical Engineering, Eindhoven, The Netherlands	
12:15-12:30	Hybrid Silver Iron Oxide Nanoflowers : Synthesis, characterization and their theranostic ability against glioblastoma Sofia G. Nikolopoulou ^{a,b} , Beata Kalska-Szostko, Anna Basa ,Eleni K.	Aerosol jet-printed ion-selective electrodes for sweat monitoring Jakub Krzemiński ^{1*} , Jan Dominiczak ¹ and Dominik Baraniecki ¹	

	<p>Efthimiadou^{a,b}</p> <p>^aInorganic Chemistry Laboratory, Chemistry Department, National and Kapodistrian University of Athens, Panepistimiopolis, Zografou 157 71, Greece</p> <p>^bSol-Gel Lab, Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", 153 41 Aghia Paraskevi Attikis, Greece</p>	<p>¹Centre for Advance Materials and Technologies, Warsaw University of Technology</p>
12:30-12:45	<p>Functional nanomaterials for combined tumor therapy</p> <p>Mikhail V. Zyuzin^{1*}</p> <p>¹School of Physics and Engineering, ITMO University, St. Petersburg, Russian Federation</p>	<p>Metal oxide transistors with unconventional tri-channel geometry for various sensing applications</p> <p>Wejdan S. Alghamdi^{1*}, Abhinav Sharma¹, and Thomas D. Anthopoulos¹</p> <p>¹King Abdullah University for Science and Technology</p>
12:45-13:00	<p>HFn-mAb nanoconjugates-mediated anticancer activity in 3D tumor models</p> <p>Linda Barbieri *, Davide Prosperi and Miriam Colombo</p> <p>NanoBioLab, Department of Biotechnology and Biosciences, University of Milano- Bicocca,</p> <p>Piazza della Scienza 2, 20126 Milan, Italy</p>	<p>Metal Oxide Gas Sensors for Smart Food Packaging and Environmental Applications</p> <p>E. Gagaoudakis^{1*}, A. Sfakianou^{1,2} E. Mantsiou¹, L. Zouridi^{1,3}, E. Aperathitis¹, A. Papadakis^{1,3}, A. Badeka⁴, M. G. Kontominas⁴, M. Pervolaraki¹, E. Stratakis¹ and V. Binas^{1,2}</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Heraklion, Greece</p> <p>²Department of Physics, University of Crete, Heraklion, Greece</p> <p>³Department of Materials Science and Technology, University of Crete, Heraklion, Greece</p> <p>⁴Department of Chemistry, University of Ioannina, Ioannina, Greece</p>
13:00-13:15	<p>Design of versatile graphene oxide-based nanoconstructs with immunomodulatory activity</p> <p>Despoina Despotopoulou^{1*}, Maria Stylianou², Thomas Kisby², Neus Lozano¹, Kostas Kostarelos^{1,2,3}</p> <p>¹Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and BIST, Campus UAB, Bellaterra, 08193 Barcelona, Spain</p> <p>²Nanomedicine Lab, Faculty of Biology, Medicine, and Health, The University of Manchester, Manchester, M13 9PT, U.K.</p> <p>³National Graphene Institute, The University of Manchester, Booth Street East, Manchester, M13 9PL, U.K.</p>	<p>Leaf electronics: Nature-based substrates and electrodes for organic electronic applications</p> <p>Rakesh Rajendran Nair¹, Laura Teuerle¹, Jakob Wolansky¹, Hans Kleemann¹, and Karl Leo¹</p> <p>Dresden Integrated Center for Applied Physics and Photonic Materials (IAPP) and Institute of Applied Physics, Dresden University of Technology (TUD)</p>

13:15-13:30	<p>Bio-Nanomachine Interfaces in Externally Controllable Nanonetworks for Brain Tumour Management Andreani D. Odysseos^{1*}, Maria Kokonou¹, Theodoulakis Christofi¹, Abdul Quddious², Asif Bilal², Stavros Iezekiel², Costas Pitris² ¹EPOS-lasis, R&D, Nicosia, Cyprus ²University of Cyprus, Nicosia, Cyprus</p>	<p>Biohybrid plants with self-assembled electronics as a platform for glucose sensing Gwennaël Dufil^{1*}, Daniele Mantione² and Eleni Stavrinidou¹, ¹Linköping University, ²Polymat</p>
13:30-15:00	LUNCH BREAK (PASIPHAE ROOM)	
15:00-16:00	CONFERENCE CLOSING CEREMONY (STUDENT AWARDS & CLOSING REMARKS)	
16:00-18:00	SOCIAL ACTIVITY	

POSTER PRESENTATION PROGRAM

POSTER SESSION will take place on DAY 3 of the Conference (15:00-17:00)
(as shown on the main NANOBIO2023 Program)

WORKSHOP 1 NANOMATERIALS AND NANOMEDICINE	
P1	<p>Three SiO₂ layered approach for stable and PL active CsPbBr₃@SiO₂ nanocrystals biological agents Markella Splinaki^{1*}, Konstantina Alexaki¹, Konstantinos Brintakis¹, Paraskevi Kavatzikidou¹, Anthi Ranella¹, Athanasia Kostopoulou¹ and Emmanuel Stratakis^{1,2}</p> <p>¹ Institute of Electronic Structure & Laser (IESL) Foundation For Research And Technology Hellas (FORTH), Heraklion, Greece ² University of Crete, Department of Physics, Heraklion, Greece</p>
P2	<p>Electrospinning of short peptides and characterization through Hyperspectral Raman spectroscopy Matteo Bottiglieri¹, Konstantina Mitropoulou¹, Maria L. Gelmi² and Alexander M. Bittner^{1,3}</p> <p>¹ CIC nanoGUNE, (BRTA) Tolosa Hiribidea 76, 20018 Donostia-San Sebastián, Spain ² Dipartimento di Scienze Farmaceutiche, Università degli Studi di Milano, Via Mangiagalli 25, 20131 Milano (Italy) ³ Ikerbasque Basque Foundation for Science, Pl. Euskadi 5, 48009 Bilbao, Spain</p>
P3	<p>Photoactive singlet oxygen generating nanofibrous membrane for biomedical applications Petra Křtěnová^{1*}, Vojtěch Liška¹, Robert Willimetz¹ and Jiří Mosinger¹</p> <p>¹ Faculty of Science, Charles University, Hlavova 2030, 128 43, Prague 2, Czech Republic</p>
P4	<p>In Vitro And Ex Vivo Examinations Of The Antiplatelets And Antimicrobial Properties Of Functionalized Silver Nanoparticles As A Potential Coating For Cardiovascular Devices Iwona Inkielewicz-Stepniak^{1*}, Anna Szczoczarz¹ and Elzbieta Megiel²</p> <p>¹ Medical University of Gdansk, Gdansk, Poland ² University of Warsaw, Warsaw, Poland</p>
P5	<p>Conformational Effects of Gold Nanoparticle Exposure on Enzyme Creatine Phosphokinase Taneeka Anand^{1*}, Mahima Unnikrishnan² and Catherine J. Murphy²</p> <p>¹ University of California, Los Angeles, California, United States ² University of Illinois, Urbana-Champaign, Illinois, United States</p>

P6	<p>Biological evaluation of TiO₂-based photocatalytic nanoparticles Evangelia Tsitsou^{1,2}, Athina Papadopoulou^{1,2}, Maria Theodosiou^{1,2}, Elena Charalampous¹, Maria Kourmoussi¹, Panagiotis Tzevelekidis¹, Christina-Anna Mitsopoulou¹ and Eleni K. Efthimiadou^{1,2*}</p> <p>¹Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece ²Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”, Athens, Greece</p>
P7	<p>Biomimetic Lipid Nanoparticles for Tumor-Targeted RNA Delivery S.Garbujo^{1*}, C.Baioni¹, F.Magni², M.Colombo¹, D.Peer³ and D.Prosperti¹</p> <p>¹Department of Biotechnology and Bioscience, University of Milano-Bicocca, Milan, Italy ²School of Medicine and Surgery, University of Milano-Bicocca, Veduggio al Lambro, Italy ³The Shmunis School of Biomedicine and Cancer Research, Tel Aviv University, Tel Aviv, Israel</p>
P8	<p>Evaluation of HFn-mAb nanoconjugates-mediated anticancer activity in 3D tumor models Barbieri L., Rizzuto MA., Pellicchia F., Andreotti C., Colombo M., Prosperi D</p> <p>NanoBioLab, Department of Biotechnology and Biosciences, University of Milano- Bicocca, Piazza della Scienza 2, 20126, Milan, Italy</p>
P9	<p>Transdermal electrochemical sensing: combining microneedles with molecularly imprinted polymers for point-of-care testing Daniela Oliveira^{1, 2, 3, 4*}, Bárbara P. Correia^{1, 2}, Sanjiv Sharma³ and Felismina T. C. Moreira^{1, 2*}</p> <p>¹BioMark@ISEP-CEB/LABELS, School of Engineering, Polytechnic of Porto, R. Dr. António Bernardino de Almeida, 431, 4249-015 Porto ²CIETI - LabRISE-School of Engineering, Polytechnic of Porto, R. Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal ³Faculty of Sciences and Technology, University of Coimbra, R. Sílvio Lima, Pólo II, 3030-790 Coimbra, Portugal ⁴Department of Biomedical Engineering, Faculty of Science and Engineering, Swansea University, Swansea SA1 8EN, U.K.</p>
P10	<p>Redox-Active Enzyme Conjugates on DNA Origami Nanoscaffolds for Bioelectrochemistry Diana Soukarie¹, Jokin Yeregui^{1,2}, Alexander Bittner¹ and Ibon Santiago^{*1}</p> <p>¹CIC nanoGUNE BRTA, Donostia-San Sebastián 20018, Spain ²KTH Royal Institute of Technology, Stockholm, Sweden</p>
P11	<p>Sustainable recycling of spent automotive catalysts S. Todorova^{1*}, Z. Cherkezova-Zheleva¹, D. Paneva¹, I. Yakoumis² and K. Sakkas³</p> <p>¹Institute of Catalysis, Bulgarian Academy of Sciences, Acad. G. Bonchev St., Bldg. 11, 1113 Sofia, Bulgaria, ²MONOLITHOS Catalysts and Recycling Ltd, Athens, Greece ³YS Cypriot Catalysts Ltd., Psevdas, Cyprus</p>
P12	<p>New polymeric nanoparticles as platform in drug delivery field Giustra M.D.^{1*}, Bolis L.¹, Barbieri L.¹, Baioni C., Spina F.¹, Prosperi D.¹, Colombo M.¹</p> <p>¹NanoBioLab, Department of Biotechnology and Bioscience, University of Milano Bicocca, Milan, Italy</p>

P13	<p align="center">Structural polymorphism research of alverine citrate Magdalena Janczura^{1,2}, Natalia Rosiak² and Judyta Cielecka-Piontek^{2*} ¹Synteza sp. z o.o., Poznan, Poland ²Department of Pharmacognosy and Biomaterials, Faculty of Pharmacy, Poznań University of Medical Sciences, Poznan, Poland</p>
P14	<p align="center">Design of Experiment approach to design space designating of the Hot Melt Extrusion process Magdalena Paczkowska-Walendowska^{1*}, Anna Stasiłowicz-Krzemień¹, Natalia Rosiak¹, Judyta Cielecka-Piontek¹ ¹Department of Pharmacognosy and Biomaterials, Faculty of Pharmacy, Poznan University of Medical Sciences, Poznan, Poland</p>
P15	<p align="center">Application of electrospun nanofibers to increase the solubility and permeability of resveratrol-rich extracts from red vine leaves Magdalena Paczkowska-Walendowska^{1*}, Andrzej Miklaszewski², Judyta Cielecka-Piontek¹ ¹Department of Pharmacognosy and Biomaterials, Faculty of Pharmacy, Poznan University of Medical Sciences, Poznan, Poland ²Faculty of Mechanical Engineering and Management, Institute of Materials Science and Engineering, Poznan University of Technology, Poznan, Poland</p>
P16	<p align="center">Cobalt catalysts supported on Al₂O₃ and SiO₂ VOC oxidation and PROX process-influence of the support S. Todorova¹, I. Yordanova^{1*}, A. Naydenov², D. Filkova¹, B. Grahovski¹, H. Kolev¹ ¹Institute of Catalysis, Bulgarian Academy of Sciences, Acad. G. Bonchev St., bl. 11, 1113 Sofia, Bulgaria ²Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Acad. G. Bonchev St., bl. 11, 1113 Sofia, Bulgaria</p>
P17	<p align="center">pH responsive biohybrid BSA-poly(DPA) nanoparticles for interlysosomal drug delivery Maria Papageorgiou^{1*}, Lina Papadimitriou¹, Alexis Theodorou², Errika Voutyritsa², Argyri Papagiannaki², Kelly Velonia² and Anthi Ranella¹ ¹Institute of Electronic Structure and Laser (IESL), Foundation of Research and Technology-Hellas(FORTH), Heraklion, Crete, Greece ²Department of Materials Science and Technology, University of Crete, Heraklion, Crete, Greece</p>
P18	<p align="center">Revelation of tooth structural integrity at the microcrack site by combining X-ray tomography with photoluminescence and machine learning Irma Dumbryte^{1*}, Maria Androulidaki², Donatas Narbutis³, Elena Jasiuniene⁴, Arturas Vailionis⁵, Saulius Juodkazis⁶, and Mangirdas Malinauskas⁷ ¹Institute of Odontology, Vilnius University, Vilnius, Lithuania ²Microelectronics Research Group, Institute of Electronic Structure & Laser, Foundation for Research and Technology FORTH-Hellas, Heraklion, Crete, Greece ³Institute of Theoretical Physics and Astronomy, Vilnius University, Vilnius, Lithuania ⁴Ultrasound Research Institute, Kaunas University of Technology, Kaunas, Lithuania ⁵Stanford Nano Shared Facilities, Stanford University, Stanford, USA ⁶Optical Sciences Centre and ARC Training Centre in Surface Engineering for Advanced Materials (SEAM), School of Science, Swinburne University of Technology, Hawthorn, Australia ⁷Laser Research Center, Vilnius University, Vilnius, Lithuania</p>

P19	<p align="center">Nanotechnology patenting activity in Greece K. Glynou^{1*}, C. Andrikopoulou¹, A. Thymiopoulos¹ ¹ Hellenic Industrial Property Organization (OBI), Athens, Greece</p>
P20	<p align="center">Lead-free metal halide perovskites for gas detection A.Argyrou^{1,2,*}, K. Brintakis¹, E. Gagaoudakis¹, V. Binas¹, A. Kostopoulou¹, E. Stratakis^{1,3} ¹ Institute of Electronic Structure and Laser, Foundation for Research & Technology- Hellas, P.O. Box 1527, Vassilika Vouton, 70013 Heraklion, Greece ² University of Crete, Department of Chemistry, Vassilika Vouton, 70013 Heraklion, Greece ³ University of Crete, Department of Physics, Vassilika Vouton, 70013 Heraklion, Greece</p>

WORKSHOP 2 ORGANIC AND PEROVSKITE PHOTOVOLTAICS	
P21	<p align="center">Functionalized MXenes for Stable Halide Perovskite Solar Cells Ashitha Paingott Parambil¹, Masoud Karimipour¹, Kenedy Tabah Tanko¹, Sonia Ruiz Raga¹, Monica Lira-Cantu^{1,*} ¹Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and the Barcelona Institute of Science and Technology (BIST). Building ICN2, Campus UAB E-08193, Bellaterra, Barcelona, Spain. E-Mail: monica.lira@icn2.cat</p>
P22	<p align="center">Bulk and Micro-Photoluminescence Studies of Perovskites Georgios N. Arvanitakis^{1*}, Stuart A. J. Thomson¹ ¹Edinburgh Instruments, Livingston, United Kingdom</p>
P23	<p align="center">A thiol-based salt for surface passivation in perovskite solar cells Spyros Orfanoudakis^{1,3}, Filippos Harlaftis¹, Konstantina Gkini¹, Lazaros Theofylaktos¹, Apostolos Kalafatis¹, Georgia Basina¹, Lida Givalou¹, Maria Konstantakou¹, Athanasios G. Kontos², Thomas Stergiopoulos^{1*} ¹Institute of Nanoscience and Nanotechnology, NCSR Demokritos, 15341, Aghia Paraskevi, Athens, Greece ²Department of Physics, National Technical University of Athens, 15780, Zografou, Athens, Greece</p>
P24	<p align="center">An efficient approach for controlling the crystallization, strain, and defects of the perovskite film in hybrid perovskite solar cells through antisolvent engineering. Nikolaos Tzoganakis^{1*}, Konstantinos Chatzimanolis¹, Emmanuel Spiliarotis¹, George Veisakis¹, Dimitris Tsikritzis¹ and Emmanuel Kymakis¹ ¹Department of Electrical & Computer Engineering, Hellenic Mediterranean University (HMU), Heraklion 71410, Crete, Greece</p>
P25	<p align="center">Incorporating TDMs and NFAs into indoor Organic Photovoltaics – The IntoPV Project Marinos Tountas, Christos Polyzoidis, Emmanuel Kymakis Department of Electrical & Computer Engineering, Hellenic Mediterranean University</p>

P26	<p>Emerging Sb2S3 absorber for planar chalcogenide solar cells via optimized SbAc3*TU*DMF route L. Theofylaktos^{1,2*}, L. Gkivalou¹, K. Gkini¹, S. Orfanoudakis¹, A. Kalafatis¹, G. Basina¹, P. Dallas¹, P. Tsipas¹, V. Psycharis¹ and T. Stergiopoulos¹ ¹Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research "Demokritos", 15310 Ag. Paraskevi, Athens, Greece ²Department of Chemistry, School of Natural Sciences, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece.</p>
P27	<p>Improving stability of α-FAPbI3 solar cells by tailoring SnO2/perovskite interface with 2D g-C3N4 Konstantina Gkini^{1*}, Spiros Orfanoudakis^{1,2} and Thomas Stergiopoulos¹ ¹Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Athens, Greece ²School of Applied Mathematical and Physical Sciences, NTUA, Athens, Greece</p>
P28	<p>Two-step ligand exchange strategy for AgBiS2 conductive thin-films for photovoltaic applications A. Kalafatis^{1,2*}, L. Theofylaktos¹, S. Orfanoudakis^{1,3}, L. Gkivalou¹, K. Gkini¹, G. Basina¹, M. Konstantakou¹, P. Dallas¹, T. Stergiopoulos¹ ¹Institute of Nanoscience & Nanotechnology, National Centre of Scientific Research "Demokritos", 15310 Agia Paraskevi, Greece ²Université de Bordeaux, F-33405 Talence Cedex, France</p>
P29	<p>Integrated system for finding installation places and inspection the performance of large photovoltaic parks in real time with IR-image processing by autonomous aerial vehicle (drone) with the help of mini weather station G. Viskadourous^{1*}, E. Astrakianakis², Z. Sarris³ and E. Kymakis¹ 1 Hellenic Mediterranean University 2 Entec Green Economy Consultants (E. Astrakianakis & SIA EE) 3 ALTUS LSA</p>

<p>WORKSHOP 3 TISSUE ENGINEERING & REGENERATIVE MEDICINE</p>	
P30	<p>PDMS hydrophobicity tailoring by surface modifications based on zwitterionic coatings Nicoleta Dumitrescu[*], Anca Bonciu, Simona Nistorescu, Laurentiu Rusen and Valentina Dinca National Institute for Lasers, Plasma and Radiation Physics</p>
P31	<p>Mesenchymal stem cells interaction with hierarchical textured surfaces obtained by laser processing Valentina Dinca^{1*}, Livia Elena Sima², Icriverzi Madalina², Laurentiu Rusen¹, Anca Bonciu¹, Anca Roseanu² ¹National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor, 077125, Magurele, Romania ²Institute of Biochemistry of the Romanian Academy, Bucharest, Romania</p>

P32	<p>Mechanosensitivity of Aged Mesenchymal Stem Cells (MSCs) Anna Maria Kapetanaki^{1*}, Monica P Tsimbouri², Matthew Dalby² and Massimo Vassalli¹ ¹Centre of Cellular Microenvironment, James Watt School of Engineering, University of Glasgow, UK ²Centre for Cell Engineering, Institute for Molecular, Cell and Synthesis Biology, College of Medical, Veterinary and Life Sciences, University of Glasgow, UK</p>
P33	<p>Moving towards UFP – Chemical and Toxicological Characterization of Brake Wear Particles below PM₁ Bozhena Tsyupa^{1,3*}, Chiara Emma Campiglio², Alessandro Mancini³, Andrea Bonfanti³, Manuela Teresa Raimondi¹, Andrea Remuzzi² ¹Department of Chemistry, Materials and Chemical Engineering "G. Natta", Politecnico di Milano, Italy ²Department of Biomedical Engineering, Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Bergamo, Italy ³Materials Engineering & Laboratories, GCF Research & Development, Brembo S.p.A, Stezzano, Italy</p>
P34	<p>3D printing of polylactic acid/cuttlefish bone biocomposites Aikaterini Gialouri^{1*} and Nikolaos Bouropoulos^{1,2} ¹Department of Materials Science, University of Patras, 26504 Rio, Patras, Greece ²Foundation for Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes, 26504 Patras, Greece</p>
P35	<p>Studies of cells behavior on printed graphene layers and patterns with variable composition, morphology and macrogeometry Weronika Sosnowicz Centre for Advanced Materials and Technologies CEZAMAT, Warsaw, Poland</p>
P36	<p>Modeling PML-mediated Glioblastoma Growth Dynamics: Insights from Spheroid-Based Studies and Brain Tissue Slice Implantation *E. Makrigiannaki^{1,2}, M. Tampakaki^{1,3,4}, E. Tzamali¹, G. Zacharakis³, K. Sidiropoulou^{5,6}, V. Sakkalis¹, J. Papamatheakis^{5,6} ¹Foundation for Research and Technology Hellas, ICS, Heraklion, Greece ²University of Crete, School of Medicine, Heraklion Crete, Greece ³Foundation For Research and Technology-Hellas, IESL, Heraklion Crete, Greece ⁴ University of Zurich, Faculty of Science, Zurich, Switzerland ⁵Department of Biology, University of Crete, Heraklion, Greece ⁶Foundation for Research and Technology-Hellas, IMBB, Heraklion, Greece</p>

WORKSHOP 4

EMERGING PRINTED ELECTRONICS AND BIOELECTRONICS

P37	<p align="center">Challenges in Printing Ion-Selective Sensors on Skin-Compatible Films</p> <p align="center">Izabela Wojciechowska^{1*}, Filip Budny¹, Andrzej Peptowski¹ and Małgorzata Jakubowska¹</p> <p align="center">¹Warsaw University of Technology, Warsaw, Poland</p>
P38	<p align="center">New Methylpyridine Dyes with Benzyl Bromides and Methyl Iodides for Fluorescent Labels</p> <p align="center">Stela Minkovska^{1*} and Georgi B. Hadjichristov²</p> <p align="center">¹Institute of Catalysis, Bulgarian Academy of Sciences, Sofia, Bulgaria</p> <p align="center">²Georgi Nadjakov Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria</p>
P39	<p align="center">Photoswitchable photochromic spirooxazines for optical sensing</p> <p align="center">Stela Minkovska^{1*} and Georgi B. Hadjichristov²</p> <p align="center">¹Institute of Catalysis, Bulgarian Academy of Sciences, Sofia, Bulgaria</p> <p align="center">²Georgi Nadjakov Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria</p>
P40	<p align="center">3D/2D Heterostructure mixed halide perovskite resistance memories enabled by perfluorinated spacer cations with enhanced retention and endurance characteristics</p> <p align="center">Michalis Loizos¹, Konstantinos Rogdakis^{1,2*}, Weifan Luo³, Patricia A. Gaina³, Jovana V. Milić^{3*}, and Emmanuel Kymakis^{1,2*}</p> <p align="center">¹ Department of Electrical Computer Engineering, Hellenic Mediterranean University (HMU), Heraklion, Greece</p> <p align="center">² Institute of Emerging Technologies (i-EMERGE) of HMU Research Center, Heraklion, Greece</p> <p align="center">³Adolphe Merkle Institute, University of Fribourg, Switzerland.</p>
P41	<p align="center">Enhancing Aqueous Dispersibility and Stability of Electrochemically Exfoliated Graphene Using Porphyrin-Based Surfactants: A New Approach against Graphene's Hydrophobicity</p> <p align="center">Evangelos Sotiropoulos^{1*}, Katerina Anagnostou^{1*}, Konstantinos Rogdakis¹, Athanasios Coutsolelos², Emmanuel Kymakis¹</p> <p align="center">¹Department of Electrical & Computer Engineering, Hellenic Mediterranean University (HMU), Heraklion 71410, Crete, Greece</p> <p align="center">² Laboratory of Bioinorganic Chemistry, Department of Chemistry, University of Crete (UoC), Voutes University Campus, Heraklion 70013, Crete, Greece</p>
P42	<p align="center">Printed Graphene-based Moisture Energy Generators and Humidity Sensors</p> <p align="center">Katerina Anagnostou^{1*}, Massimo Urban², George Veisakis¹, Ioannis Kalogerakis¹, George Viskadourous¹, Konstantinos Rogdakis¹, Giulio Rosati², Arben Merkoçi^{2,3}, Emmanuel Kymakis¹</p> <p align="center">¹Department of Electrical & Computer Engineering, Hellenic Mediterranean University (HMU), Heraklion 71410, Crete, Greece</p> <p align="center">²Catalan Institute of Nanoscience and Nanotechnology, BIST, and CSIC, Edifici ICN2 Campus UAB, 08193 Bellaterra, Barcelona, Spain</p> <p align="center">³ICREA, Passeig Lluís Companys 23 08010 Barcelona, Spain</p>

WORKSHOP 5 NANOPHOTONICS & BIOPHOTONICS

P43	<p>Non-linear optical microscopy correlates the age-dependent nuclear lipid droplets deposition with cellular aging in <i>Caenorhabditis elegans</i> Meropi Mari^{1*}, George Filippidis¹, Konstantinos Palikaras², Christina Ploumi³, Andrea Princz³ and Nektarios Tavernarakis³ ¹Institute of Electronic Structure and Laser, Foundation for Research and Technology, Heraklion 71110, Crete, Greece ²Department of Physiology, Medical School, National and Kapodistrian University of Athens, Athens 11527, Athens, Greece ³Institute of Molecular Biology and Biotechnology Foundation for Research and Technology, Heraklion 71110, Crete, Greece</p>
P44	<p>Fabrication of laser-induced periodic structures on polycarbonate by UV ultrashort pulses Matina Vlahou^{1,2}, Nektaria Protopapa^{1,3}, Stella Maragkaki¹, George D. Tsibidis¹ and Emmanuel Stratakis^{1,3} ¹Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology (FORTH), N. Plastira 100, Vassilika Vouton, 70013, Heraklion, Crete, Greece ²Department of Materials Science and Technology, University of Crete, 71003 Heraklion, Crete, Greece ³Department of Physics, University of Crete, 71003 Heraklion, Crete, Greece</p>
P45	<p>A low-cost, label-free microfluidic scanning flow cytometer system for the characterization of particles Maryamsadat Ghoreishi^{1,2*}, Riccardo Reale¹, Giovanna Peruzzi¹, Giancarlo Ruocco^{1,2}, and Marco Leonetti^{1,3} ¹Center for Life Nano- & Neuro-Science, Italian Institute of Technology, Rome, Italy ²Sapienza University of Rome, Rome, Italy ³ Institute of Nanotechnology, Consiglio Nazionale delle Ricerche, Rome, Italy</p>

WORKSHOP 6 2D MATERIALS AND DEVICES

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P47	<p>Surface modification of Ti-6Al-4V for medical applications M. Benčina^{1,2,3}, N. Rawat², A. Iglič^{2,3}, V. Kralj-Iglič³, A. Vesel¹, I. Junkar¹</p>

	<p>¹Department of Surface Engineering, Jožef Stefan Institute, Ljubljana, Slovenia; ²Laboratory of Physics, Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia; ³Laboratory for Clinical Biophysics, Faculty of Health Sciences, University of Ljubljana, Ljubljana, Slovenia</p>
P48	<p>Electrodeposited Graphene Oxide- Cu electrodes for Aqueous Zinc- energy storage devices N. Kavousanos 1,2*, M. Apostolopoulou¹, K. Brintakis², A. Kostopoulou², E. Stratakis², D. Vernardou¹ 1Hellenic Mediterranean University (H.M.U.), Heraklion, Greece 2 Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas (FORTH), Heraklion, Greece</p>
VARIOUS WORKSHOPS	
P49 (WS4)	<p>Establishing Polydioxanone as a flexible resorbable sensor platform Finn Jaekel^{1*}, Sarah Spitzner¹, Hans Kleemann¹, Dennis Wahl², Daniel Bockler², Eberhard Grambow², Sebastian Hinz², Clemens Schafmayer², Jochen Hampe³ ¹Dresden Integrated Center for Applied Physics and Photonic Materials (IAPP), Dresden, Germany, ²Department of General, Visceral, Thoracic, Vascular and Transplantation Surgery, Rostock University Medical Center, Rostock, Germany, ³University Hospital Carl Gustav Carus at the Technical University of Dresden, Dresden, Germany</p>
P50 (WS1)	<p>Ozone decomposition over manganese-based catalysts in gas phase Petya Karakashkova^{1*}, Katerina Zaharieva², Silvia Dimova³ ¹Institute of Catalysis, Bulgarian Academy of Sciences, Sofia, Bulgaria "Acad. G. Bonchev" St., Block 11, 1113 Sofia, Bulgaria ²Institute of Mineralogy and Crystallography "Acad. I. Kostov" Bulgarian Academy of Sciences, "Acad. G. Bonchev" St. Block 107, 1113 Sofia, Bulgaria ³Institute of Polymers, Bulgarian Academy of Sciences, "Acad. G. Bonchev" St., Block 103A, 1113 Sofia, Bulgaria</p>
P51 (WS4)	<p>Printed Microelectrode Arrays: Advancing Electrophysiological Research with Aerosol-Jet Printing Technology Dominik Baraniecki ^{1*}, Jakub Krzemiński ¹, Jan Dominiczak ¹ and Małgorzata Jakubowska ¹ ¹Warsaw University of Technology, Warsaw, Poland</p>
P52 (WS1)	<p>MOFs as a key to safer agriculture: Sensing and Remediation for Pesticide Health Management Marianna I. Kotzabasaki^{1*}, Giasemi K. Angeli², Chrysanthos Maraveas¹ and Thomas Bartzanas¹ 1Agricultural University of Athens, Department of Natural Resources and Agricultural Engineering, Athens, Greece 2National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute</p>

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