

POSTER PRESENTATION PROGRAM
POSTER SESSIONS will take place from DAY 2 and DAY of the Conference
POSTER SESSION 1: 18:00 – 20:00 & POSTER SESSION 2: 18:00 – 20:00
(as shown in the main NANOBIO2018 Program)
*The codes next to each Poster is just for reference only! There will be some changes, so an updated version will be announced!

*	WORKSHOP 1 NANOBIOMATERIALS AND NANOMEDICINE
WS1-P1	Composite active surfaces for biosensing applications V. Dinca1*, A. Palla Papavlu1, A. Vasilescu2, M. Filipescu1, S. Brajnicov1, A. Bonciu1,2 and M. Dinescu1 1National Institute for Lasers, Plasma and radiation Physics, Bucharest, Romania 2International Center of Byodinamics, Bucharest, Romania
WS1-P2	Effect of Myoglobin on Photoluminescence of ZnO-Gd2O3 Films I.A. Hayrullina1, T.F. Sheshko1, I.A. Nagovitsyn2,3, G.K. Chudinova2,4, A.G. Cherednichenko1, E.A. Sarycheva1 1RUDN University - Peoples' Friendship University of Russia, Moscow Miklukho-Maklaya str.6, Moscow, Russia, 2Natural Science Center of General Physics Institute RAS, Moscow, Russia 3Semenov Institute of Chemical Physics RAS, Moscow, Russia 4National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Moscow, Russia
WS1-P3	A Graphical Representation of DNA/RNA Sequences Dorota Bielińska-Wąż 1* and Piotr Wąż 2 1 Department of Radiological Informatics and Statistics, Medical University of Gdańsk, Poland 2 Department of Nuclear Medicine, Medical University of Gdańsk, Poland
WS1-P4	A New Graphical Bioinformatics Method Piotr Wąż 1* and Dorota Bielińska-Wąż 2 1 Department of Nuclear Medicine, Medical University of Gdańsk, Poland 2 Department of Radiological Informatics and Statistics, Medical University of Gdańsk, Poland
WS1-P5	In vivo Hepatotoxicity and its Molecular Mechanisms of Gd2O3:Eu3+ Dual-modal Nanoprobe Cunjing Zheng1, Xiumei Tian, Fukang Xie, Li Li Department of Histology and Embryology, Zhongshan School of Medicine, Sun Yat-san University, Guangzhou 510080, China



WS1-P6	Poly(ethylene oxide) as Protective Barrier of Carbon Nanotubes against Protein Adsorption-Molecular Dynamics Study Z. Benková1,2*, P. Čakánek1*, M. N. Dias Soeiro Cordeiro2 1Polymer Institute, Slovak Academy of Sciences, Dúbravská cesta 9, 845 41 Bratislava, Slovakia 2LAQV@REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, Rua do Campo Alegre 687, 4168-007 Porto, Portugal
WS1-P7	A novel characterization of silver nanoparticles using Artemisia Annua: green synthesis, characterization and anti-malarial activity Elisabetta Avitabile1*, Cristina D'Avino1, Ioannis Tsamesidis1, Serenella Medici2 and Antonella Pantaleo1 1Department of Biomedical Sciences, University of Sassari, Italy 2Department of Chemistry and Pharmacy, University of Sassari, Italy
WS1-P8	Smart Internal Stimuli-Responsive Nanocarriers for Gene Delivery/ Magali Hernández 1, Enrique Lima2 1 Facultad de Química, Universidad Nacional Autónoma de México. Circuito exterior s/n, Cd. Universitaria, Del. Coyoacán, CP 04510, México D. F., Mexico.Mail:q.magalihdez@hotmail.com 2 Laboratorio de Fisicoquímica y Reactividad de Superficies (LaFReS), Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, Circuito exterior s/n, Cd. Universitaria, Del. Coyoacán, CP 04510, Ciudad de México, Mexico. Mail:lima@iim.unam.mx
WS1-P9	Effect of CNT with mechanical strain on cell differentiation Eliška Mázl Chánová1,2*, Petr Knotek3, Jan Svoboda2, Petr Kutálek4, Jana Kredatusová2, Dana Kubies2 and Ying Yang1 1Institute for Science&Technology in Medicine, Keele University, Stoke-on-Trent, UK 2Institute of Macromolecular Chemistry AS CR, Prague, CR 3Dpt. of General and Inorganic Chemistry, University of Pardubice, Pardubice, CR 4 Joint Laboratory of Solid State Chemistry of IMC AS CR and University of Pardubice, Pardubice, CR
WS1-P10	Fe3O4 nanoparticles formation by ball milling of hematite Elena Lysenko*, Anatoliy Surzhikov Tomsk Polytechnic University, Tomsk, Russia
WS1-P11	Multiplex analysis of tumor markers using surface enhanced Raman spectroscopy (SERS). Anna Balzerová1, Václav Ranc1, Radek Zbořil1 Regional Centre of Advanced Technologies and Materials, Department of Physical Chemistry, Faculty of Science, Palacký University in Olomouc, 17 listopadu 12, CZ-77146 Olomouc, Czech Republic.
WS1-P12	Antibacterial Layer-by-Layer assemblies based on Graphene Ella Gibbons1, Antonios Kelarakis2, Marta Krysmann1 University of Central Lancashire, Preston, England 1School of Pharmacy and Biomedical Sciences, University of Central Lancashire,



	Preston, United Kingdom 2School of Physical Sciences and Computing, University of Central Lancashire, Preston, United Kingdom
WS1-P13	Biomonitoring air pollution in leaves of carob tree Sophia Papadopoulou*, Maria-Sonia Meletiou-Christou2, Sophia Rhizopoulou3 1Department of Botany, Faculty of Biology, National and Kapodistrian University of Athens, Athens 15781, Greece
WS1-P14	Preparation and characterization of Pistacia lentiscus var. Chia essential oil-loaded poly(lactic acid) nanoparticles as novel wound healing agent I. Vrouvaki1*, E. Koutra2, M. Kornaros2, K. Avgoustakis1, F. N. Lamari1, and S. Hatziantoniou1 1University of Patras, Department of Pharmacy, Patras, Greece 2University of Patras, Department of Chemical Engineering, Patras, Greece
WS1-P15	Polysaccharides-based Capsules Loaded with Magnetic Nanoparticles Elżbieta Gumieniczek-Chłopek 1,2*, Joanna Odrobińska2, Czesław Kapusta1, Szczepan Zapotoczny2 1 Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, Cracow, Poland 2 Faculty of Chemistry, Jagiellonian University, Cracow, Poland
WS1-P16	Characterization of magnetic nanoparticles coated with chitosan derivatives for tissue engineering application Adriana Gilarska1,2*, Sylwia Fiejdasz1, Szczepan Zapotoczny2, Maria Nowakowska2 and Czesław Kapusta1 1AGH University of Science and Technology, Faculty of Physics and Applied Computer Science, Mickiewicza 30, 30-059 Kraków, Poland 2Jagiellonian University, Faculty of Chemistry, Gronostajowa 2, 30-387 Kraków, Poland
WS1-P17	Downregulation of receptor for advanced glycation end products (RAGE) in the aorta of APOE-deficient mice using P-selectin targeted RAGE-shRNA lipoplexes Cristina Ana Constantinescu1, Elena-Valeria Fuior1, Daniela Rebleanu1, Geanina Voicu1, Mariana Deleanu1, Monica Tucureanu1, Elena Butoi1, Ileana Manduteanu1, Virginie Escriou2,3,4,5, Maya Simionescu1, Manuela Calin1 1Institute of Cellular Biology and Pathology "Nicolae Simionescu", Bucharest, Romania, 2CNRS, Unité de Technologies Chimiques et Biologiques pour la Santé (UTCBS) UMR 8258, Paris, France, 3INSERM, UTCBS U 1022, Paris, France, 4Université Paris Descartes, Sorbonne-Paris-Cité University, UTCBS, Paris, France
WS1-P18	Studies on transfection efficiency and toxicity of different nanocarriers of shRNA-expressing plasmid on human valvular interstitial cells Daniela Rebleanu1, Cristina Ana Constantinescu1, Geanina Voicu1, Agneta Simionescu1,2, Ileana Manduteanu1, Manuela Calin1* 1Institute of Cellular Biology and Pathology "Nicolae Simionescu" of Romanian Academy, Bucharest, Romania 2Department of Bioengineering, Clemson University, United States of America



	VCAM-1 TARGETED NARINGENIN-LOADED LIPID NANOEMULSIONS REDUCE MONOCYTE ADHESION TO ACTIVATED ENDOTHELIAL CELLS
WS1-P19	Elena-Valeria Fuior1*, Geanina Voicu1, Mariana Deleanu1,2, Daniela Rebleanu1, Cristina Ana Constantinescu1,3, Florentina Safciuc1, Maya Simionescu1, Manuela Calin1 1Institute of Cellular Biology and Pathology "Nicolae Simionescu" of the Romanian Academy, Bucharest, Romania 2 UASVM, Faculty of Biotechnologies, Bucharest, Romania 3UASVM, Faculty of Veterinary Medicine, Bucharest, Romania
WS1-P20	Effects of Ag/TiO2 and Ag/N-TiO2 nanoparticles on human lung epithelial cells Daniela Rebleanu1, Cristina Ana Constantinescu1, Geanina Voicu1, Mariana Deleanu1, Carmen Gaidau2, Madalina Ignat2, Aurora Petica2, Manuela Calin1 1 Institute of Cellular Biology and Pathology "Nicolae Simionescu" of Romanian Academy, Bucharest, Romania; 2R&D National Institute for Textiles and Leather (INCDTP)—Leather and Footwear Research Institute (ICPI) Division, Bucharest, Romania
WS1-P21	Solvent Mediated Effects in Nanoassembly of Amyloidogenic Peptides Nikolay Blinov1* and Andriy Kovalenko1 1University of Alberta and Nanotechnology Research Centre, Edmonton, Canada
WS1-P22	Electrospun Nanofibers as Controlled-Release Carriers of Echinochrome A Stefanos Kikionis1, Elena A. Vasileva2, Natalia P. Mishchenko2, Sergey A. Fedoreyev2, Vassilios Roussis1 and Efstathia Ioannou1* 1Section of Pharmacognosy and Chemistry of Natural Products, Department of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece 2G.B. Elyakov Pacific Institute of Bioorganic Chemistry, Far-Eastern Branch of the Russian Academy of Sciences, Vladivostok, Russia
WS1-P23	Multivalent Antibody-Nanoparticle Conjugates to Enhance the Sensitivity of SERS-based Immunoassays Taejoon Kang1* 1Korea Research Institute of Bioscience and Biotechnology, Daejeon 34141,Republic of Korea
WS1-P24	Gold Coated Cobalt Ferrite Nanoparticles via Methionine Inducted Reduction Agne Mikalauskaite1*, A. Jagminas 1 1State research institute Center for Physical Sciences and Technology, Vilnius, Lithuania
WS1-P25	Effect of Carbon Nanotubes on Zirconium Ceramics Used for Biomedical Applications Sergei Ghyngazov1*, Sergei Shevelev1 1National Research Tomsk Polytechnic University, Tomsk, Russia



WS1-P26	Nanoparticle-mediated Enzyme Replacement Therapy and Autophagy Modulation: a new perspective for Krabbe disease Ambra Del Grosso 1,2*, Lucia Angella2, Marianna Galliani 2,3, Nadia Giordano2,4, Ilaria Tonazzini1, Melissa Santi3, Matteo Caleo2,4, Giovanni Signore3 and Marco Cecchini1,2. 1NEST, Istituto Nanoscienze-CNR and Scuola Normale Superiore, Piazza San Silvestro 12, 56127 Pisa (ITALY) 2NEST, Scuola Normale Superiore, Piazza San Silvestro 12, 56127 Pisa (ITALY) 3 Center for Nanotechnology Innovation@NEST, Istituto Italiano di Tecnologia, Piazza San Silvestro 12, 56127 Pisa (ITALY) 4 CNR Neuroscience Institute, via G. Moruzzi 1, 56124 Pisa, (ITALY)
	Gold Nanoparticles Against Clinically Isolated Pathogens Rokas Žalnėravičius1, 2*, Arūnas Jagminas1, Marija Kurtinaitienė1, Vaclovas Klimas1 and Algimantas Paškevičius3
WS1-P27	1State Research Institute Centre for Physical Sciences and Technology, Vilnius, Lithuania
	2Department of Chemistry and Bioengineering, Vilnius Gediminas Technical University, Vilnius, Lithuania
	3Laboratory of Biodeterioration Research, Nature Research Centre, Vilnius, Lithuania
	Synthesis, physico-chemical characterization and anticancer potential of flavonoid chrysin-loaded hybrid PCL and PHB nano-formulations.
	E. Halevas1*, C. Kokotidou2, A. Mitraki2, G. Litsardakis1, A. Pantazaki3
WS1-P28	1 Department of Electrical & Computer Engineering, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece.
	3 Department of Materials Science and Technology, University of Crete, 70013, Heraklion, Greece
	2 Department of Chemistry, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece.
	Antibody-free magnetic lateral flow immunoassay for quantitative amyloid beta detection
	Monserrat Rivas1, Jose Carlos Martínez1, María Salvador1, Amanda Moyano2, María C. Blanco-López2, Apostolos C. Tsolakis3, Eleftherios Halevas3 and
WS1-P29	George Litsardakis3 1Departamento de Física & IUTA, Universidad de Oviedo, Gijón, Spain
	2Departamento de Rísica & 101A, Oniversidad de Oviedo, Gijon, Spain
	3Department of Electrical & Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece
	Enhanced Vibrational Circular Dichroism signal as a result of interaction between water soluble gold nanocluster and CoCl2
WS1-P30	Sarita Bhattacharya1* and Thomas Bürgi1
	1Department of Physical Chemistry, University of Geneva, Switzerland
	Inconel 718 Machining Performance Investigation for Using Nano Bio-Coolant
WS1-P31	Senthil kumaar J S1*, Selvarani P2 and Pramod V R3
	1Madanapalle Institute of Technology and Science, Madanapalle, India.
	2Government Polytechnic College, Dharmapuri, India.
	3NSS College of Engineering, Palakkad, India.



WS1-P32	Evaluation of milk-derivate exosomes as natural liposomes in theragnostic.
	González M.I.1,2, Sobrino G.1,2, Cañadas M. 1, Desco M.1,2,3,4, Salinas B.1,2,3
	(1) Inst. de Investig. Sanitaria Gregorio Marañón, Experimental Medicine and Surgery Unit, Madrid, Spain
W31132	(2) Centro Nacional de Investigaciones Cardiovasculares Carlos III, Advanced Imaging Unit, Madrid, Spain
	(3) Universidad Carlos III de Madrid, Bioengineering and Aerospace Engineering Dept, Madrid, Spain
	(4) Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Spain
	PEGylating magnetic nanocrystals clusters through electrostatic interactions
	A. Kolokithas-Ntoukas1*, G. Mountrichas2, S. Pispas2, R. Zboril3, K. Avgoustakis4, A. Bakandritsos3
WS1-P33	1University of Patras, Materials Science Dept., Rio, Greece
M21-522	2Theoretical and Physical Chemistry Institute N.H.R.F., Athens, Greece
	3Regional Centre of Advanced Technologies and Materials, Olomouc, Czech Republic
	4University of Patras, Pharmacy Dept., Rio, Greece
	Interactions of mitoxantrone-modified superparamagnetic iron oxide nanoparticles with biomimetic membranes and cells.
W/64 D24	Dorota Nieciecka1*, Krystyna Kijewska1 and Paweł Krysinski1
WS1-P34	1Department of Chemistry, University of Warsaw,
	Pasteur 1, 02-093 Warsaw, Poland
	Graphene Acid: Ready-to-derivatize Biocompatible Nanocarrier Towards Biomedical Applications
WS1-P35	Jan Belza1*, Katerina Polakova1, Tomas Malina1, Aristides Bakandritsos1, Veronika Sedajova1 and Radek Zboril1
M21-522	1Regional Centre of Advanced Technologies and Materials, Department of Physical Chemistry, Faculty of Science, Palacky University Olomouc, 17.
	Listopadu 1192/12, 771 46 Olomouc, Czech Republic
	Production of antibacterial polymeric materials
	Graham M Reid1, Shauna Flynn1,2, Laura Quinn2, Eoin Casey2, Susan Mulansky3 and Susan M Kelleher1
WS1-P36	1School of Chemistry, University College Dublin, Dublin 4, Ireland
	2School of Bioprocessing Engineering, University College Dublin, Dublin 4, Ireland
	3Institute of Food and Biochemical Engineering, Technische Universität Dresden
	Immobilization and Electrochemical Behavior of Hemoglobin on Hybrid Graphite/TiO2 electrodes
WS1-P37	Efstathios Deskoulidis1*, Vasilios Georgakilas1 and Emmanuel Topoglidis1
	1Department of Materials Science, University of Patras, Rion 26504, Greece
	Fabrication and Antibacterial Activity of Pectin-Ag Hydrogel
WS1-P38	Kseniya Hileuskaya1, Alena Ladutska2, Galina Novik2, Vladimir Agabekov1
	1The Institute of Chemistry of New Materials, Minsk, Belarus
	2The Institute of Microbiology, Minsk, Belarus.



WS1-P39	Fabrication of ultrathin poly(L-lactic acid) nanosheets by spin¬-coating suitable for tissue engineering
	I. Chyshankou*1, V. Kulikouskaya1, S. Pinchuk2, I. Volotovski2, V. Agabekov1
	1Institute of Chemistry of New Materials of NASB, Minsk, Belarus
	2 Institute of Biophysics and Cell Engineering of NASB, Minsk, Belarus
WS1-P40	Biocompatibility and potential cytotoxicity of silicalite-1 and nanodiamond-BMP-7 coatings for orthopedic implants
	Ivana Kopova1*, Ivan Jirka2, Stepan Potocky3,4, Bohuslav Rezek3,4, Lucie Bacakova1
	1 Institute of Physiology of the Czech Academy of Sciences, Prague, Czech Republic
VV31140	2 J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Prague, Czech Republic
	3 Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic
	4 Faculty of Electrical Engineering, Czech Technical University, Prague, Czech Republic
	Phage-based capture and concentrating system for single step detection of pathogens in liquid samples
	Domenico Franco1*, Sebastiano Trusso2, Laura M. De Plano3, Enza Fazio1, Maria G. Rizzo3, Santina Carnazza3, Fortunato Neri1 and Salvatore P. P.
	Guglielmino3
WS1-P41	1 Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Viale F. Stagno d'Alcontres 31, 98166,
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	2IPCF-CNR Institute for Chemical-Physical Processes, Viale Ferdinando Stagno d'Alcontres 37, 98158, Messina, Italy
	3Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Viale F. Stagno d'Alcontres 31, 98166, Messina,
	Italy
	Promiscous phage-peptide as possible approach to a multiple drug targeted therapy
	Laura M. De Plano1*, Domenico Franco2, Maria G. Rizzo1, Santina Carnazza1, Marco S. Nicolò1 and Salvatore P. P. Guglielmino1
WS1-P42	1 Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Viale F. Stagno d'Alcontres 31, 98166, Messina,
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	2Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Viale F. Stagno d'Alcontres 31, 98166,
	Messina, Italy
	Addition of graphene nanoparticles to PDMS matrix significantly improve hemocompatibility of samples
WS1-P43	Nina Recek1*, Karthika Prasad2, Alenka Vesel1
1102 1 10	1Department of Surface Engineering and Optoelectronics, Jožef Stefan Institute, Ljubljana SI-1000, Slovenia
	2Science and Engineering Faculty, Queensland University of Technology, Brisbane QLD 4000, Australia
WS1-P44	Magnetic liposomes for image guided and remotely triggered drug delivery
	Nina Kostevšek,1* Ilaria Monaco,2 and Wafa Al-Jamal3
	1 Department for Nanostructured Materials, Jozef Stefan Institute, Ljubljana, Slovenia
	2 Department of Industrial Chemistry "Toso Montanari", University of Bologna, Italy
	3 Queen's University Belfast, School of Pharmacy, Belfast, United Kingdom



	Shell-dependent antimicrobial efficiency of cobalt ferrite nanoparticles
WS1-P45	Simonas Ramanavicius1*, Rokas Zalneravicius1 and Arunas Jagminas1
	1State research institute Center for Physical Sciences and Technology, Vilnius, Lithuania
WS1-P46	Theoretical study of water interaction with functionalized benzene molecules
	Rafaela-Maria Giappa1*, Emmanuel Klontzas 1 and George Froudakis1
	1 University of Crete, Department of Chemistry, Crete, Greece
	Surface Mechanical Coating of Al-Cu powder by Mechanical Alloying
	Iman Farahbakhsh*, Marzieh Abbasi
WS1-P47	University of Applied Science and Technology, Shirvan Center, Khorasan, Iran
	Department of Engineering, Quchan Branch, Islamic Azad University, Quchan, Iran
	Coating of Fe, Cu and SiC Nano Particles Mixture on Fe plate by Mechanical Alloying
WC1 D40	Marzieh Abbasi*, Iman Farahbakhsh
WS1-P48	University of Applied Science and Technology, Shirvan Center, Khorasan, Iran
	Department of Engineering, Quchan Branch, Islamic Azad University, Quchan, Iran
	A new interfacial bio-sensing approach for detecting aberrant protein phosphorylation in cancer
	Mostak Ahmed1*, Laura G. Carrascosa1, Paul Mainwaring1 and Matt Trau1,2
WS1-P49	1 Centre for Personalized Nanomedicine, Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Brisbane, QLD
	4072, Australia
	2 School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, QLD 4072, Australia
WS1-P50	Ultrasound-responsive Smart Liposomes as Theranostic agents for Treatment of Glioblastoma multiforme
	Rishi Rajat Adhikary1* and Rinti Banerjee1
	1Indian Institute of Technology Bombay, Mumbai, India
WS1-P51	The nanoscale mechanics of protein self-assembly at oil-water interfaces controls cell adhesion and stem cell fate decision
	J.E. Gautrot1,2*, D. Kong1,2, L. Peng1,2 and W. Megone1,2
	1Institute of Bioengineering and 2School of Engineering and Materials Science, Queen Mary, University of London, Mile End Road, London, E1 4NS, UK.



WS1-P52	The two faces of titanium dioxide nanoparticles bio-camouflage in 3D bone spheroids W. Souza1,2, S. Gemini-Piperni2,3, R. Borojevic2,4, L. A. Rocha2,5, J. M. Granjeiro1,2,6, A. Ribeiro1,3,7
	1Postgraduate Program in Biotechnology, National Institute of Metrology Quality and Technology, Rio de Janeiro, Brazil;
	2Brazilian Branch of Institute of Biomaterials, Tribocorrosion and Nanomedicine (IBTN);
	3 Brazilian Center for Research in Physics, Rio de Janeiro, Brazil;
	4Center of Regenerative Medicine, Faculty of Medicine, Petrópolis, Brazil;
	5Physics Department, University Estadual Paulista, Brazil;
	6Dental School, Fluminense Federal University, Niterói, Brazil;
	7Pos-Graduation Program in Translacional Biomedicine, University of Grande Rio, Brazil
	Dynamic nuclear polarization enhanced solid-state NMR as a powerful tool for probing the surface of nanomaterials with sub-Angström resolution
	Natalia Olejnik-Fehér1*, Saumya Badoni2, Maria Jędrzejewska3, Małgorzata Wolska-Pietkiewicz3, Daniel Lee2, Gaël De Paëpe2 and Janusz Lewiński1, 3
WS1-P53	1 Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland
	2 Université Grenoble Alpes, CEA, INAC-MEM, Grenoble, France
	3Faculty of Chemistry, Warsaw University of Technology, Warsaw, Poland
	Investigating the structure-activity relationship of amphiphilic nucleophiles to hydrolyze major classes of pesticides in micellar medium
	Subhashini Pandey1,2*, Sandeep Chandrashekarappa 1, Tanu Jain 1,2, Ketan Thorat1 and Praveen K. Vemula1,3 1Institute for Stem Cell Biology and
WS1-P54	Regenerative Medicine (inStem), GKVK Campus, Bellary Road, Bangalore 560065, Karnataka, India.
	2 The Institute of Trans-Disciplinary Health Sciences and Technology, Yelahanka, Bengaluru560064, Karnataka, India.
	3Ramalingaswami ReEntry Fellow, Department of Biotechnology, Government of India.
	In situ synthesis of silver nanoparticles on organic and inorganic colloidal particles for theranostic applications
MC4 DEE	Bogdan Parakhonskiy1,2*, Anatolii Abalymov1, Ekaterina Lengert1,2, Maria Saveleva1,2, Alexey Yashchenok3, Yulia Svenskaya2, Andre Skirtach1
WS1-P55	1Ghent University, Ghent, 9000, Belgium
	2 Saratov State University, Saratov, 410012, Russia
	3 Skoltech center of Photonics & Quantum Materials, Skolkovo Institute of Science and Technology, 143026 Moscow, Russia
WS1-P56	Amplification-Free Multi-RNA Type Profiling for Cancer Risk Stratification via Alternating Current Electrohydrodynamic NanoMixing
	Kevin M. Koo, Shuvashis Dey, Matt Trau
	The University of Queensland Building 75 Cooper Road Australian Institute for Bioengineering and Nanotechnology Brisbane, QLD 4072, Australia
	Impact of Bioinspired Zinc Nanoparticles on Germination and Biochemical Profiling of Canola
WS1-P57	Zia-ur-Rehman Mashwani1*, and Sohail1
	1Department of Botany, PMAS Arid Agriculture University, Rawalpindi, 46300, Pakistan



WS1-P58	Synthesis of new materials containing ZnO doped particles for purification of waste waters Viorica-Elena Podasca1*, Mariana-Dana Damaceanu1 1 Petru Poni Institute of Macromolecular Chemistry, 41 A Grigore Ghica Voda Alley, 700487 Iasi, Romania
WS1-P59	Silver Nanowire Endoscopy for Single-Cell Investigation Monica Ricci1*, Beatrice Fortuni1, Tomoko Inose2, Susana Rocha1 and Hiroshi Uji-i1,2 1KU Leuven, Celestijnenlaan 200F 3001 Leuven, Belgium 2RIES, Hokkaido University, Sapporo, 001-0020, Japan
WS1-P60	Carbogenic nanoparticles for biomedical and forensic applications Antonios Kelarakis, University of Central Lancashire, Preston, PR12HE, U.K.
WS1-P61	Magnetic field sensible nanocomposites based on cross-linked sodium alginate and maghemite Vasiliy Spiridonov*, Andrey Sybachin, Irina Panova, Olga Novoskoltseva and Alexander Yaroslavov 1Lomonosov Moscow State University, Chemistry Department Polymer Division, Russia
WS1-P62	Antimicrobial use of silver nanoparticles in biomaterials and their cytotoxicity G. Cotton*, C. Gee, A. Jude, W. Duncan, and D. Coates. Sir John Walsh Research Institute, University of Otago, New Zealand
WS1-P63	Injectable Dual release Nanoformulation based Hydrogel for Blood Borne Bacterial Infections Vimal Rohan K 1*, Rohit Srivasatava2* 1Academy of Medical Sciences, Pariyaram, Kerala, India 2Indian Institute of Technology, Bombay, India
WS1-P64	Nanoengineered Dual Release Graft for Pain and Inflammation Management in Osteoarthritis Bavya M C1*, Rohit Srivasatava2* 1,2Indian Institute of Technology, Bombay, India
WS1-P65	Probing surface-driven interactions of fluorescently labeled hyaluronic acid with nanomaterials Liviana Mummolo*, Damiano Genovese, Francesco Palomba, Luca Prodi University of Bologna, Bologna, Italy
WS1-P66	Designing of Highly Programmable and Modular Nanorobotic Platform for Smart Drug Delivery Soumyananda Chakraborti1* and Jonathan G Heddle1 1Malopolska Centre of Biotechnology, Jagiellonian University, Krakow, Poland



WS1-P67	Nanopatterns of Surface-bound ephrinB1 Ligands produce Multivalent Effects on EphB2 Receptor Clustering Verónica Hortigüela1, Enara Larrañaga1*, Francesco Cutrale2, Anna Seriola3, María García-Díaz1, Anna Lagunas4,1, Jordi Andilla5, Pablo Loza-Alvarez5, Josep Samitier1,4,6, Samuel Ojosnegros2, Elena Martínez1,4,6 1Institute for Bioengineering of Catalonia (IBEC), Barcelona, Spain 2University of Southern California, Translational Imaging Center, Los Angeles, CA, USA 3Center of Regenerative Medicine in Barcelona, Barcelona, Spain 4Centro de Investigación Biomédica en Red (CIBER), Madrid, Spain 5ICFO-Institut de Ciencies Fotoniques, Castelldefels, Spain
	6Dep. of Electronics and Biomedical Engineering, University of Barcelona (UB), Barcelona, Spain
	Fluorescent Carbogenic Nanoparticles
WS1-P68	Dr Marta Krysmann1* 1 University of Central Lancashire, School of Pharmacy and Biomedical Sciences, Preston, UK
	Stabilization of Bioinspired Non-spherical Cell Membrane-Coated Nanoparticles via Lyophilization
WS1-P69	Bernard Manuel Haryadi1*, Gerhard Winter1 and Julia Engert1
	1Ludwig-Maximilians-University Munich, Munich, Germany
WS1-P70	SERS-based microfluidic chips for sensitive label-free detection of miRNAs Chiadò A.1*, Novara C.1, Paccotti N.1, Condorelli G.2,3, De Franciscis V.3, Rivolo P.1, Geobaldo F.1, and Giorgis F.1 1Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy 2Institute of Endocrinology and Experimental Oncology of Italian National Research Council, Naples, Italy 3Department of Molecular Medicine and Medical Biotechnology, "Federico II" University of Naples, Naples, Italy
WS1-P71	The core of self-assembling peptide nanofibers will influence neurogenesis potential of its attached biological motif Behnaz Tavakol 1, Shima Tavakol 2 1 School of Medicine, Kashan University of Medical sciences, Isfahan, Iran 2 Cellular and Molecular Research Center, Iran University of Medical sciences, Tehran, Iran
WS1-P72	Towards Water-Soluble Histidin-N-heterocyclic Carbine Stabilized Optically active Gold Nanoparticles Michael R. Reithofer1*, Jia Min Chin1,2, Adam J. Young2 and Christopher J. Serpell3 1 Institute of Inorganic Chemistry, Faculty of Chemistry, University of Vienna, Vienna Austria 2 School of Mathematics and Physical Sciences, University of Hull, Hull, United Kingdom 3 University of Kent, School of Physical Sciences, Canterbury, United Kingdom



Carbon Dots as a Trackable Drug Delivery Sy	stem for Localized Cancer Therany in VIVO
	• •
Qin Li a *, Qinghui Zeng,b	
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b. State Key Laboratory of Luminescence and Applications, Changchun Insti	
Dong_Nanhu Road 3888, C	•
c. Department of Pharmacology, College of Basic Medi	cal Sciences, Jilin University, Changchun, P. R. China.
Assessment of the antibacterial effe	cts of TiS3 nanoribbons on E. coli
A. Gusev1,2,*, O. Zakharova1,2	, D. Muratov2, A. Sinitskii2,3
WS1-P74 1 Derzhavin Tambov State University, 33, Inte	natsionalnaya str., Tambov, 392000, Russia
2 National University of Science and Technology	MISIS, 4, Leninsky pr., Moscow, 119991, Russia
3 Department of Chemistry, University of N	ebraska – Lincoln, Lincoln, NE 68588, USA
Self-assembly of anionic liposomes on ca	tionic biodegradable polymer particles
WS1-P75 Andrey Sybachin*, Vasiliy Spiridonov, Olga Novoskoltse	va, Nikolay Melik-Nubarov and Alexander Yaroslavov
1Lomonosov Moscow State University, Chen	istry Department Polymer Division, Russia
Functionalised nano-graphene oxid	e for high efficiency gene delivery
WS1-P76 Nisha Yadav1, Naveen Kumar2, Seem	a Sehrawat2 and Bimlesh Lochab1
1Department of Chemistry and	2Department of Life Sciences
School of Natural Sciences, Shiv Nadar University, G	autam Buddha Nagar, Uttar Pradesh, 201314, India.
Salt Rejection and Ion-Selectivity of Slit-Shaped Na	opores in Biomineral: Molecular Dynamics Study
WS1-P77 Alexey A. Tsukanov1*, Evgeny V.	Shilko1 and Sergey G. Psakhie1
1Institute of Strength Physics and Material Sciences, Siberia	in Branch of Russian Academy of Sciences, Tomsk, Russia
Combined Theoretical and Experimental Study of SiC/SiOx co	re/shell Nanowires for Photodynamic therapy applications
T. Morresi1,2*, M. Timpel3, A. Pedrielli1,2, N. M. Pugno2,4,5, M. V. Nardi3 an	d S. Taioli1 1European Centre for Theoretical Studies in Nuclear Physics and
WS1-P78 Related Areas (ECT*-FBK), Trento, Italy 2Department of Civil, Environmenta	l and Mechanical Engineering, University of Trento, Italy 3Department of
Industrial Engineering, University of Trento, Italy 4School of Engineering and I	Materials Science, Queen Mary University of London, United Kingdom 5Ket-
Lab, Edoardo Amaldi Foundation,	talian Space Agency, Rome, Italy
Efflux pump inhibition and Photodynamic therapy of MRSA vi	a thiolated chitosan coated cobalt doped ZnO nanoparticles
WS1-P79 Akhtar Nadhman1, Gulr	ıkh1, Sulaiman Faisal1
1 Institute of Integrative Biosciences, CECOS University of	f IT and emerging sciences, Peshawar 25000, Pakistan



	WORKSHOP 2 PEROVSKITE OPTOELECTRONICS & SOLAR CELLS
WS2-P1	Size Tunable Cesium Antimony Chloride Perovskite Nanowires and Nanorods Bapi Pradhan1*, Gundam Sandeep Kumar1 Sumanta Sain2, Amit Dalui1,3, Uttam Kumar Ghorai4, Swapan Kumar Pradhan5, and Somobrata Acharya3 1Centre for Advanced Materials and 2Department of Materials Science, Indian Association for the Cultivation of Sciences, Jadavpur, Kolkata 700032, India 3Department of Chemistry, Jogamaya Devi College, Kolkata 700026, India 4 Department of Industrial & Applied Chemistry, Swami Vivekananda Research Center, Ramakrishna Mission Vidyamandira, Belur Math, Howrah 711202, India 5Department of Physics, University of Burdwan, Burdwan, West Bengal 713104, India
WS2-P2	Photoluminescence Spectroscopy of Halide Perovskites Stuart Thomson1*, Maria Tesa2 and Anna Gakamsky3 1Edinburgh Instruments, Livingston, UK 2Edinburgh Instruments, Livingston, UK 3Edinburgh Instruments, Livingston, UK
WS2-P3	Analysis of spin-texture of electronic bands in metal halide perovskite single crystals via spin-resolved photoelectron spectroscopy Maryam Sajedi1*, Maxim Krivenkov2 and Dmitry Marchenko3 1,2,3Helmholtz Zentrum Berlin für amatrialien und Energie, Berlin, Germany
WS2-P4	Magnetic Behaviour of Rutile-type CrMO4 (M = Nb, Ta) Materials Prepared from Single-molecular Precursors Martina Vrankić1*, Marijana Jurić1, Lidija Androš Dubraja1, Jasminka Popović1, Damir Pajić2 and Jure Dragović2 1Ruđer Bošković Institute, Zagreb, Croatia 2Department of Physics, Faculty of Science, University of Zagreb, Zagreb, Croatia



	WORKSHOP 3 TISSUE ENGINEERING & REGENERATIVE MEDICINE
WS3-P1	Biodegradable and bioactive scaffold for bone tissue engineering. Malagón Escandón AM1*, Saniger Blesa JM2, Badillo Ramírez I2, Arenas Alatorre JA3, Chaires Rosas CP1, Vázquez Torres NA1, Piñón Zárate G1, Hernández Téllez B1, Herrera Enríquez M1, Castell Rodríguez AE1. 1 Department of Cell and Tissue Biology from the Faculty of Medicine, UNAM, Avenida Universidad 3000, C.P. 04510, Ciudad de México, CDMX. 2 Center for Applied Sciences and Technological Development (CCADET), UNAM Circuito exterior s/n C.P. 04510 Ciudad de México, CDMX. 3 Institute of Physics (IFUNAM), Sendero Bicipuma, Coyoacán, Ciudad de México, CDMX.
	Surface and morphological investigation of synthesized nanostructured ridges from electrospun Polyvinyl Alcohol – Egg Albumin blend using Atomic
	Force Microscopy Jopeth Ramis1,2, Bryan Pajarito3
WS3-P2	1 Department of Chemical Engineering, Technological Institute of the Philippines, 363 P. Casal St. Quiapo, Manila, Philippines.
	2 Division of Regenerative Medicine and Cellular Therapies, School of Pharmacy, University of Nottingham, University Park, Nottingham, United Kingdom
	3 Polymer Research Laboratory, Department of Chemical Engineering, University of the Philippines, Diliman, Quezon City, Philippines
WS3-P3	Analysis of the degree of crystallinity during laser cladding of bioactive glass coatings on ultrafine-grained metallic substrates Szymon Bajda1*, Michal Krzyzanowski1, 2, Jakub Sroka1, 3, Szczepan Witek1 and Patryk Steczkowski1 1AGH University of Science and Technology, Krakow, Poland 2Birmingham City University, Birmingham, United Kingdom 3The University of Sheffield, Sheffield, United Kingdom
	Calcium phosphate mineralization of poly (N, N-dimethylacrylamide) (PDMAM) hydrogels
WS3-P4	Constantine Ioannides1*, Georgios Bokias2,3 and Nikolaos Bouropoulos1,3 1Department of Materials Science, University of Patras, Patras, Greece 2Department of Chemistry, University of Patras, Greece 3 Foundation for Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes, Patras, Greece
	Biocompatibility of artificial rod and cone photoreceptors with human-like spectral sensitivities
WS3-P5	Seok Hwan Kim1*, Byeongho Park2, Heehong Yang3, Hyun Seok Song4, Tai Hyun Park3, and Jae Hun Kim2
	1Seoul National University Boramae Medical Center, Seoul, Korea
	2Korean Institute of Science and Technology, Seoul, Korea 3 School of Chemical and Biological Engineering Seoul National University, Seoul, Korea
	4Korea Basic Science Institute, Daejeon, Korea



WS3-P6	Protein-based Hydrogel for laser-induced Fabrication of Microstructures Amirbahador Zeynali1*, Giuseppe Chirico1 and Maddalena Collini1 1 Biophysics and Biophotonics group, Department of Physics "G. Occhialini", Universita' Milano-Bicocca, Milano, Italy
WS3-P7	Biodegradable prosthesis created by electrospinning for the treatment of extrahepatic bile duct injuries Alan Isaac Valderrama Treviño1*, Nadia Adriana Vázquez Torres1, Rodrigo Banegas Ruiz2, Andrés Eliú Castell Rodríguez1, Eduardo E. Montalvo-Javé3 1 Laboratory of experimental immunotherapy and tissue engineering, Faculty of Medicine, Universidad Nacional Autónoma de México, Mexico City, Mexico. 2 Service of Hand Surgery and Microsurgery. Rehabilitation Hospital "Luis Guillermo Ibarra Ibarra". Mexico City, Mexico. 3 Department of HPB Surgery, General Hospital of Mexico, Mexico City, Mexico
WS3-P8	Direct Laser Printing of Cells on Tissue Constructs based on Porous Collagen Scaffolds C.V. Leva1, M. Chatzipetrou1, D. Zareifi2, A. Gravanis3, L. Alexopoulos2, D. S. Tzeranis3* and I. Zergioti1 1Department of Physics, National Technical University of Athens, Zografou, Greece 2Department of Mechanical Engineering, National Technical University of Athens, Zografou, Greece 3Institute of Molecular Biology and Biotechnology, Foundation for Research and TechnologyHellas, Herakleion, Greece
WS3-P9	Artificial 3D culture systems for T cell expansion Eduardo Pérez del Río,1,2 Marc Martinez Miguel, 1,2,3 Jaume Veciana, 1,2 Imma Ratera,1,2,* Judith Guasch 1,2,3,* 1 Institute of Materials Science of Barcelona (ICMAB-CSIC), Campus UAB, 08193, Bellaterra, Spain 2 Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBERBBN), Campus UAB, 08193, Bellaterra, Spain 3 Dynamic Biomaterials for Cancer Immunotherapy, Max Planck Partner Group, ICMABCSIC, Campus UAB, 08193, Bellaterra, Spain *
WS3-P10	Co-flow microfluidic system for the production of tuneable elastic Gelatin methacrylate microparticles Francesco Pappalardo1, Jopeth Miranda Ramis1, Marta Alvarez Paino1, Kevin Shakesheff1, Morgan R Alexander2, Felicity RAJ Rose1 1Division of Regenerative Medicine and Cellular Therapies, School of Pharmacy, Centre for Biomolecular Sciences, University of Nottingham, University Park, Nottingham, NG7 2RD, United Kingdom 2Division of Advanced Materials and Healthcare Technologies, School of Pharmacy, University of Nottingham, Nottingham NG7 2RD, United Kingdom
WS3-P11	Self-Assembling peptides with RGD motifs as scaffolds for tissue engineering Graziano Deidda1,2,* Maria Farsari 1,2, Anna Mitraki 1,2 1Department of Materials Science & Technology, University of Crete, Heraklion, Greece; 2Institute of Electronic Structure and Laser, IESL-FORTH, Heraklion, Greece
WS3-P12	Skeletal Muscle Tissue Engineering Using Micro and Nano scale substrates Dr. Sahar Salehi1*, Prof. Thomas Scheibel1,2 1 Department of Biomaterials, Faculty of Engineering Science, University of Bayreuth, Bayreuth 95440, Germany 2 Bayreuth Center for Materials Science and Engineering (BayMAT), University of Bayreuth, Bayreuth 95440, Germany



WS3-P13	Porous poly(dimethylsiloxane) as substrate for mesenchymal stem cells adhesion Aliaksandr Kraskouski1, Irina Paribok1, Sergei Pinchuk2, Irina Vasilevich2, Kirill Matievski2, Igor Volotovski2, Vladimir Agabekov1 1 Institute of Chemistry of New Materials, NAS of Belarus, Minsk, Belarus 2 Institute of Biophysics and Cell Engineering, NAS of Belarus, Minsk, Belarus
WS3-P14	Applications of non-linear imaging microscopy in biology Evangelia Gavgiotaki 1,2*, Vassilis Tsafas 1,3, Meropi Mari1 and George Filippidis1 1 Institute of Electronic Structure and Laser, Foundation for Research and Technology, Heraklion, Greece 2 Medical School, University of Crete, Heraklion, Greece 3 Department of Physics, University of Crete, Heraklion, Greece
WS3-P15	Fabrication and properties of porous "sponge-like" films based on pectin-chitosan polyelectrolyte complexes Viktoryia Kulikouskaya*, Maryna Lazouskaya and Vladimir Agabekov Institute of Chemistry of New Materials of NAS of Belarus, Minsk, Belarus
WS3-P16	Electrospun Fibrous Matrices for the Treatment of Orthopedic Diseases A. R. Tsiapla1*, V. Bakola1,2, V. Karagkiozaki1,2 and S. Logothetidis1 1Nanotechnology Lab LTFN (Lab for Thin Films – Nanobiomaterials –Nanosystems – Nanometrology) Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece 2BL Nanobiomed P.C. Thessaloniki, 54655, Greece
WS3-P17	PHOTOINITIATOR-FREE TWO-PHOTON POLYMERIZATION OF GELATIN METHACRYLAMIDE Kostas Parkatze1,2, Alexandros Selimis1, Elmina Kabouraki1,3, Maria Kaliva1,3, Anthi Ranella1, Maria Farsari1 and Maria Vavmakaki1,3 1Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, 700 13 Heraklion, Crete, Greece 2Department of Chemistry, University of Crete, 710 03Heraklion, Crete, Greece 3Department of Materials Science and Technology, University of Crete, 710 03 Heraklion, Crete, Greece
WS3-P18	Composite hydrogel based biomaterials functionalized with calcium carbonate for biomedical application Anatolii Abalymov1*, Maria Saveleva 2, Bogdan Parakhonskiy1 and Andre Skirtach1 1, Faculty of Bioscience Engineering Ghent University, Ghent, Belgium 2Saratov State University, Saratov, Russia
WS3-P19	Octacalcium phosphate: Synthesis, characterization and stability studies in calcium alginate beads Emmanouela Mystiridou1,2*, Eleni-Anna Oikonomou1 and Nikolaos Bouropoulos1,2 1Department of Materials Science, University of Patras, Patras, Greece 2Foundation for Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes, Patras, Greece



WS3-P20	Mimicking biological mechanical behavior by a bioactive lactose-modified chitosan
	Franco Furlani1*, Pasquale Sacco1, Fioretta Asaro2, Michela Cok1, Eleonora Marsich3, Dan Cojoc4, Sergio Paoletti1, Ivan Donati1
	1Department of Life Sciences, University of Trieste, Trieste, Italy
	2Department of Chemical and Pharmaceutical Sciences, University of Trieste, Trieste, Italy
	3Department of Medicine, Surgery and Health Sciences, University of Trieste, Trieste, Italy
	4CNR-IOM National Research Council - Institute of Materials, Basovizza, Trieste, Italy
WS3-P21	A new Nano technique tool in medical studies, diagnostic assays, a literature review
	Vahabi S.

WORKSHOP 4 GRAPHENE & RELATED 2D MATERIALS	
WS4-P1	STRUCTURAL PROPERTIES OF NANO POWDER SILICON CARBIDE "SiC" PRODUCED BY SOL-GEL METHOD Karima Benfadel1, 2*, Samira kaci1, Aissa Keffous1 and Abdelbaki Benmounah2 1 thin layers, surfaces and interfaces, Research Center in Semiconductor Technology for Energy (C.R.T.S.E), Algiers, Algeria. 2UR-MPE: Research Unit Materials, Processes and Environment, University of M'hamed Bougara, Boumerdes, Algeria.
WS4-P2	Microstructural investigation of nickel deposits obtained by pulsed current Amel boukhouiete1*, Juan Creus2 and Farida Mazoni1 1Laboratoire LM2PM Université Badji-Mokhtar, 23 000 Annaba, Algeria 2 Laboratoire La SIE Université de La Rochelle, , 17042 La Rochelle, France
WS4-P3	Theoretical investigation of water-soluble polyethylene glycol treated phosphorene system Anikó Lábas1* and Tibor Höltzl1 1Furukawa Electric Institute of Technology, Budapest, Hungary
WS4-P4	Single-step Green synthesis of Biocompatible Graphene Quantum Dots and their Cell Uptake Studies Arnab Halder*, Maria Godoy-Gallardo, Jon Ashley, Xiaotong Feng, Tongchang Zhou, Leticia Hosta-Rigau and Yi Sun Department of Micro- and Nanotechnology, Technical University of Denmark, DK-2800 Kgs Lyngby, Denmark



	Optically induced absorption modulation in a graphene-based metasurface
WS4-P5	Anna C. Tasolamprou1*, Charalampros Mavidis1,2, Anastasios D. Koulouklidis1, Cristina Daskalaki1, George Kenanakis1, George Deligeorgis1, Zacharias
	Viskadourakis1, Polina Kuzhir3, Stelios Tzortzakis1,4, Maria Kafesaki1,2, Eleftherios N. Economou1,4 and Costas M. Soukoulis1,5
	1Institute of Electronic Structure and Laser, FORTH, 71110, Heraklion, Crete, Greece
	2Department of Materials Science and Technology, University of Crete, 71003, Heraklion, Crete, Greece
	3Institute for Nuclear Problems, Belarus State University, Bobruiskaya 11,220030 Minsk, Belarus
	4Department of Physics, University of Crete, University of Crete, 71003, Heraklion, Crete, Greece
	5Ames Laboratory and Department of Physics and Astronomy, Iowa State University, Ames, Iowa 50011, United States
	Separation and recovery of heavy metal ions by graphene acid.
WS4-P6	Jan Kolarik1*, Aristides Bakandritsos1 and Radek Zboril1
VV34-P6	1Regional Centre of Advanced Technologies and Materials, Departments of Physical Chemistry and Experimental Physics, Faculty of Science, Palacký
	University, 17. Listopadu 1192/12, 771 46 Olomouc, Czech Republic
	A novel electrochemiluminescence glucose biosensor based on polypyrrole/polyluminol/ C3N4-Ni(OH)2/glucose oxidase modified graphite electrode
WS4-P7	Lida Fotouhia,*,Morteza Hosseinib,*,Maryam Hamtaka
	aDepartment of Chemistry, Alzahra university, Tehran, Iran
	bCenter of Excellence in Electrochemistry, Faculty of Chemistry, University of Tehran, Tehran

	WORKSHOP 5 NANOELECTRONICS & BIOELECTRONICS
WS5-P1	Substrate-dependent triboelectric charging of graphene surface for enhanced electric potential generation by motion of ionic liquid droplets Junghyo Nah1*, Pangun Park1, Daehoon Lee1
	1Chungnam National University, Daejeon, Korea
WS5-P2	Top down InAs nanowire field-effect transistors on a SiO2/Si via soft lithographic method
	Junghyo Nah1*, Pangun Park1, Min Hyung Lee2
	1Chungnam National University, Daejeon, Korea
	2Kyung Hee University, Yongin, Korea
	High-Performance Piezoelectric Nanogenerators Based on Chemically-Reinforced Composites
WS5-P3	Youngmin Choi
	Korea Research Institute of Chemical Technology (KRICT), Daejeon, Republic of Korea.



WS5-P4	Molecularly imprinted chiroptical sensor for detection of glucose M. F. Frasco*1, R. Pereira-Cameselle2, S. Chiussi3, J. L. Alonso-Gómez2 and M. G. F. Sales1 1BioMark-CEB/ISEP, School of Engineering, Polytechnic Institute of Porto, Porto, Portugal 2Organic Chemistry Department, University of Vigo, Vigo, Spain 3New Materials Group, Applied Physics Department, University of Vigo, Vigo, Spain
WS5-P5	Utilizing PLL-g-PEG substrates to detect DNA in complex samples: a combined Quartz Crystal Microbalance/Spectroscopic Ellipsometry study Dimitra Chronaki1,2*, George Papadakis1, Pasquale Palladino1, Achilleas Tsortos1 and Electra Gizeli1,2 1Institute of Molecular Biology and Biotechnology- FORTH, Heraklion, Greece 2Department of Biology, University of Crete, Heraklion, Greece *
WS5-P6	Salmonella detection in whole blood using an acoustic wave device combined with signal-monitoring smartphone Gesthimani-loanna Theodosi1,2*, Konstantinos Parasyris,2 George Papadakis1, Electra Gizeli1,2 1Institute of Molecular Biology and Biotechnology-FORTH, Heraklion, Greece 2Department of Biology, University of Crete, Heraklion, Greece
WS5-P7	Label-free electrochemical DNA sensing on nanoscale interdigitated electrodes using gold nanoparticle amplification Dilu G. Mathew1*, A. Marti2, J. Huskens2, S.G. Lemay3 and W. G. van der Wiel1 1NanoElectronics group; 2MolecularNanofabrication group; 3BioElectronics group. MESA+ Institute of Nanotechnology, University of Twente, PO Box 217, 7500 AE Enschede, The Netherlands. *
WS5-P8	Organic Based Transistors as biosensors for inflammatory biomarkers Chiara Diaccia,b, Marcello Bertob, Carlo A. Bortolottib, Daniel T. Simona a Division of Physics and Electronics, University of Linköping, Sweden b Scienze della vita, University of Modena and Reggio Emilia, Italy
WS5-P9	Epitaxial Vanadium Dioxide Films with Sharp Electrical and Optical Switch Properties Olga Boytsova1,2*, Fariya Akbar2, Dmitrii Sharovarov2, Artem Makarevich1,2 and Andrey Kaul2 1Kurnakov Institute of General and Inorganic Chemistry, Moscow, Russia 2Lomonosov Moscow State University, Moscow, Russia
WS5-P10	Bioresorbable wireless electrical stimulator for nerve regeneration Sung-Geun Choi1, Gun-Hee Lee1, Jae-Young Bae1, Jae-Hwan Lee1, and Seung-Kyun Kang1,2,* 1 Department of Bio and Brain Engineering, Korea Advanced Institute of Science and Technology, Daejeon 34141, Republic of Korea 2 KI for Health Science and Technology (KIHST), Korea Advanced Institute of Science and Technology, Daejeon 34141, Republic of Korea
WS5-P11	Fluorescent polymer-based nanocomposite electrospun fibers as optical sensors for ammonia and pH Xenofon Karagiorgis1*, A. Petropoulou2, I. Savva1, C. Riziotis2, S. Kralj3,4 and T. Krasia-Christoforou1 1Department of Mechanical and Manufacturing Engineering, University of Cyprus, 75, Kallipoleos Avenue, P.O.Box 20537, 1678, Nicosia, Cyprus 2National Hellenic Research Foundation,Theoretical and Physical Chemistry Institute Photonics for Nanoapplications Laboratory, Athens 11635, Greece 3Nanos Scientificae d.o.o. (Nanos SCI), Teslova ul. 30, SI-1000 Ljubljana, Slovenia 4Jozef Stefan Institute, Department for Materials Synthesis, Jamova 39, Ljubljana, Slovenia



	Au-Ag star shaped nanoparticles as highly efficient SERS nanoresonators.
WS5-P12	Jan Krajczewski1, Andrzej Kudelski1
	1 Laboratory of Molecular Interaction, Faculty of Chemistry, University of Warsaw, Warsaw, Poland
	Upscaling of solution processed hybrid light emitting diodes
WS5-P13	Eugenia Martinez-Ferrero1*, Nikola Perinka1 and Marta Sanz-Lleo1
	1Fundacio EURECAT, Mataró, Spain
	The new type of bipyramidal-Au@SiO2 nanoparticles – synthesis and Raman application.
WS5-P14	Karol Kołątaj1, Andrzej Kudelski1
	1University of Warsaw, Department of Chemistry, Warsaw, Poland
	New type of highly efficient optical nanoresonators for SHINERS measurements.
WS5-P15	Karol Kołątaj 1, Andrzej Kudelski 1
	1 Department of Chemistry, University of Warsaw, Ludwika Pasteura 1, Warsaw, Poland,
	A study of spectroscopic properties and morphological behavior of ZnO nanoparticles and globular protein bovine serum albumin in solution and in a
	layer-by-layer self-assembled film
WS5-P16	Utsav Chakraborty*, Pabitra paul
	Dept of Physics, Jadvpur University, Kolkata, West Bengal, India – 700032
V465 847	Cinnamate-based cross-linked structures for organic semiconductor applications
WS5-P17	Joseph Cameron*, Peter J. Skabara
	University of Glasgow, School of Chemistry, Joseph Black Building, University Place, Glasgow, G12 8QQ, UK
	Carbon quantum dots as active layer for hybrid light emitting diode (HyLEDs)
WS5-P18	Sofia Paulo,1,2* Eugenia Martinez-Ferrero 2, Emilio Palomares1,3
	1Institute of Chemical Research of Catalonia (ICIQ). The Barcelona Institute of Science and Technology (BIST), Tarragona, Spain
	2Fundació Eurecat, Mataró, Spain.
	3Catalan Institution for Research and Advanced Studies (ICREA), Barcelona Spain