

Poster Programme

Poster Session 1:

Monday, 6 March 2017, 16:00-17:00 & 19:10-21:10

[P1.001]	Crystal structure, characterization and phase transition of organic - inorganic hybrids of the formula $\text{NH}_3(\text{CH}_2)_n\text{NH}_3\text{CoCl}_4$, $n = 3 - 9$ S.K. Abdel-Aal*, A.S. Abdel-Rahman, <i>Cairo University, Egypt</i>
[P1.002]	Preparation, structure, characterization and electrical properties of organic-inorganic hybrid perovskites of the formula $[(\text{NH}_3)(\text{CH}_2)_n(\text{NH}_3)]\text{MCl}_4$, $n = 2-9$, $M = \text{Co, Mn, Cu}$ S.K. Abdel-Aal, A.S. Abdel-Rahman*, <i>Cairo University, Egypt</i>
[P1.003]	Thermoelectrical properties of Cs doped BiCuSeO as promising oxide materials for thermoelectric energy converter A. Achour* ¹ , K. Chen ² , M. Reece ² , Z. Huang ¹ , ¹ <i>Cranfield University, UK</i> , ² <i>University of London, UK</i>
[P1.004]	Wet-combustion method as a unique method for functionalization of mesoporous nanomaterials M. Aghayan* ¹ , I. Hussainova ¹ , ¹ <i>Tallinn University of Technology, Estonia</i> , ² <i>ITMO University, Russia</i>
[P1.005]	Novel (4, 8)-connected metal organic frameworks based on tetratopic ligands and tetranuclear lanthanide clusters G. Angeli*, C. Sartsidou, I. Spanopoulos, C. Tsangkarakis, P. Trikalitis, <i>University of Crete, Greece</i>
[P1.006]	Thermal Conductivity of Nanocellulose-based Foams V. Apostolopoulou-Kalkavoura*, D. Stoeckel, K. Gordeyeva, L. Bergström, <i>Stockholm University, Sweden</i>
[P1.007]	Electrically conductive bio-TPU/PCL/graphene adhesives N. Aranburu*, I. Otaegi, J.I. Eguiazábal, <i>University of the Basque Country UPV/EHU, Spain</i>
[P1.008]	Development of anti-GPNMB antibody targeted gemini nanoparticles for image-guided therapy in melanoma A. Makhlof, I. Hajdu, K. Wharton, H. Fonge, I. Badea*, <i>University of Saskatchewan, Canada</i>
[P1.009]	UV-triggered polymerization, deposition, and patterning of plant phenolic compounds F. Behboodi-Sadabad*, V. Trouillet, A. Welle, P. Levkin, <i>Karlsruhe Institute of Technology, Germany</i>
[P1.010]	Metal organic frameworks for water vapor related applications Y. Belmabkhout*, K. Adil, <i>KAUST, Saudi Arabia</i>
[P1.011]	Biodegradation in organically modified silicon alkoxide crosslinked silica nanoparticle gels A.A. Aksan, L.W. Wackett, J.B. Benson*, <i>University of Minnesota, USA</i>
[P1.012]	Production of monodisperse silica gel microspheres for bioencapsulation by extrusion into an oil cross-flow J.B. Benson*, A.A. Aksan, L.W. Wackett, <i>University of Minnesota, USA</i>
[P1.013]	Porous Au@SiO₂ nanocomposites for the detection of benzodiazepine at low concentrations: Coupling thermodynamic and Raman Spectroscopy D. Berge-LeFranc* ^{1,2} , T.N.T. Phan ^{1,2} , A. Merlen ^{1,2} , C. Pardanaud ^{1,2} , N. Simon ^{1,3} , A. Boulamery ^{1,3} , V. Hornebecq ^{1,2} , ¹ <i>Aix-Marseille University, France</i> , ² <i>CNRS, France</i> , ³ <i>AP-HM, France</i>
[P1.014]	Fabrication, characterizations and gas sensing performance of TiO₂ nanotubes/RGO/Pd ternary hybrid structure P. Bhattacharyya*, S. Ghoshal, <i>Indian Institute of Engineering Science and Technology (IIST) Shibpur, India</i>
[P1.015]	Low dimensional hybrid materials from fluorene phosphonic acid derivatives C. Bloyet* ¹ , J-M. Rueff ¹ , V. Caignart ¹ , O. Perez ¹ , B. Raveau ¹ , J. Cardin ² , J-F. Lohier ³ , G. Rogez ⁴ , P-A. Jaffrès ⁵ , ¹ <i>CRISMAT, France</i> , ² <i>CIMAP, France</i> , ³ <i>LCMT, France</i> , ⁴ <i>IPCMS, France</i> , ⁵ <i>Université de Brest IBSAM, France</i>
[P1.016]	Drastic solid-state luminescence color tuning of an archetypal Ir(III) complex using polyoxometalates and its application as a vapoluminescence chemosensor P. Bolle* ¹ , H. Serier-Brault ¹ , R. Génois ¹ , E. Faulques ¹ , O. Oms ² , A. Boulmier ² , M. Lepeltier ² , A. Dolbecq ² , P. Mialane ² , R. Dessapt ¹ , ¹ <i>Université de Nantes, France</i> , ² <i>Université Paris-Saclay, France</i>
[P1.017]	Effect of the UV irradiation damage on the optical and structural properties of europium doped ureasil-polyether hybrid materials G. Palacio ^{1,2} , D. Boyer* ² , S. Therias ² , S.H. Pulcinelli ¹ , R. Mahiou ² , C.V. Santilli ¹ , ¹ <i>University of the State of São Paulo, Brazil</i> , ² <i>Université Clermont Auvergne, France</i>
[P1.018]	Dendronized NaYF₄:Yb,Tm nanoparticles for near infrared in vivo fluorescence imaging D. Boyer* ¹ , F. Leccia ¹ , E. Jouberton ¹ , D. Felder-Flesch ² , S. Begin-Colin ² , E. Miot-Noirault ¹ , J.M. Chezal ¹ , R. Mahiou ¹ , ¹ <i>University Clermont Auvergne, France</i> , ² <i>University Strasbourg, France</i>

[P1.019]	Periodic mesoporous organosilicas containing aromatic imides with color-tunable fluorescence emission S. Brochsztain* ¹ , B. Castanheira ¹ , L.S. Andrade ¹ , E.R. Triboni ² , F.J. Trindade ¹ , ¹ Universidade Federal do ABC, Brazil, ² Universidade de Sao Paulo, Brazil
[P1.020]	MOF-coated catalyst beads for selective hydrogenation J. Canivet* ^{1,2} , S. Aguado ^{1,2} , F. Meunier ^{1,2} , D. Farrusseng ^{1,2} , ¹ CNRS, France, ² UCBL - Université Lyon1, France
[P1.021]	Synthesis and characterization of pmo's modified with KI for adsorption applications J.S.N. Chagas* ¹ , E.H.M. Nunes ² , M.P. Ferreira ³ , M.R. Dumont ¹ , D.C.L. Vasconcelos ² , W.L. Vasconcelos ² , ¹ Federal Center of Technological Education of Minas Gerais CEFET-MG, Brazil, ² Federal University of Minas Gerais – UFMG, Brazil, ³ Nuclear Technology Development Center - CDTN, Brazil
[P1.022]	One-pot synthesis of mesoporous hybrid material with crystal-like architectures J.S.N. Chagas* ¹ , E.H.M. Nunes ² , M.R. Dumont ¹ , D.C.L. Vasconcelos ² , W.L. Vasconcelos ² , ¹ Federal Center of Technological Education of Minas Gerais – CEFET-MG, Brazil, ² Federal University of Minas Gerais – UFMG, Brazil
[P1.023]	Controlled release of astaxanthin from nanoporous silicified-phospholipids assembled boron nitride complex for cosmetic applications H.S. Lee, J.W. Kim, J.H. Chang*, <i>Korea Institute of Ceramic Engineering and Technology, Republic of Korea</i>
[P1.024]	Controlled release formulation with thermo-responsive polymer hybrid ceramic microspheres H.S. Lee, J.W. Kim, J.H. Chang*, <i>Korea Institute of Ceramic Engineering and Technology, Republic of Korea</i>
[P1.025]	Ti doped hematite nanotube arrays via anodic electrodeposition for solar water splitting L.Y. Chen*, Y.J. Chen, <i>National Taiwan University of Science and Technology, Taiwan</i>
[P1.026]	Selective reduction of cyclohexanone in monolithic microreactors modified with various Lewis acid centres A. Ciemiega* ¹ , K. Maresz ¹ , J. Mrowiec-Bialon ^{1,2} , ¹ Polish Academy of Sciences, Poland, ² Silesian University of Technology, Poland
[P1.027]	Piezoelectric and vibrational characterization of P(VDF-TrFE)/barium titanate nanoparticle composite films for cochlear prosthetics G.G. Genchi ¹ , M. Comito ¹ , M. Labardi ² , L. Bruschini ³ , V. Mattoli ¹ , G. Ciofani* ^{1,4} , ¹ Istituto Italiano di Tecnologia, Center for Micro-BioRobotics @SSSA, Italy, ² CNR-IPCF, Italy, ³ University Hospital of Pisa, Italy, ⁴ Polytechnic University of Turin, Italy
[P1.028]	Ironporphyrin heterogeneous catalysts supported on Diatomaceous Earth M.V. do Prado ¹ , E.J. Nassar ¹ , E.H. de Faria ¹ , K.J. Ciuffi* ¹ , B. González ² , M.A. Vicente ² , R. Trujillano ² , V. Rives ² , ¹ Universidade de Franca, Brazil, ² Universidad de Salamanca, Spain
[P1.029]	Vibrational properties and phase transition mechanism in niccolite metal formate frameworks [CH₃NH₂(CH₂)₂NH₂CH₃][M₂(HCOO)₆] A. Ciupa*, M. Maczka, M. Ptak, <i>Polish Academy of Sciences, Poland</i>
[P1.030]	Eu³⁺ and Tb³⁺ dipicolinate complexes covalently grafted into kaolinite as promising functionalized clays luminescent hybrid materials D.T. Araújo ¹ , K.J. Ciuffi ¹ , E.J. Nassar ¹ , M.A. Vicente ² , R. Trujillano ² , V. Rives ² , E.H. De Faria* ¹ , ¹ Universidade de Franca, Brazil, ² Universidad de Salamanca, Spain
[P1.031]	Permeation and surface charge properties of cellulose acetate/silver nanocomposite membranes A.S. Figueiredo ^{1,2} , M.G. Sánchez-Loredo ³ , M. Minhalma ^{1,2} , M.N. de Pinho* ¹ , ¹ Instituto Politécnico de Lisboa, Portugal, ² Instituto Superior Técnico, Universidade de Lisboa, Portugal, ³ Universidad Autónoma de San Luis Potosí, Mexico
[P1.032]	Microwave-assisted functionalization and post-functionalization of an Aurivillius phase : an easy approach to new functional layered perovskites Y. Wang ¹ , C. Leuvre ¹ , D. Ihiwakrim ¹ , O. Ersen ¹ , F. Leroux ² , E. Delahaye* ¹ , P. Rabu ¹ , G. Rogez ¹ , ¹ CNRS-University of Strasbourg, France, ² CNRS-University of Clermont-Ferrand, France
[P1.033]	Novel photosensitive nanostructured p[HEMA]-TiO₂ hybrid materials for thermal polymerization A.P. Diazgomez Trevino* ¹ , M. Traore ¹ , L. Museur ² , A. Kanaev ¹ , ¹ Laboratoire des Sciences des Procédés et des Matériaux, France, ² Laboratoire de Physique des Lasers, France
[P1.034]	Cytotoxicity evaluation of polyethylcyanoacrylate nanoparticles in vitro and in vivo. R. Díaz-Torres*, P. Ramirez-Noguera, <i>Universidad Nacional Autónoma de México, Mexico</i>
[P1.035]	Flexible V₂O₅ nanofiber papers for battery application A. Diem*, A. Knöller, T. Jahnke, Z. Burghard, J. Bill, <i>University of Stuttgart, Germany</i>
[P1.036]	Geometrical cues in ceramic scaffolds designed by laser texturing for human mesenchymal stem cells differentiation toward an osteogenic response V. Dinca* ¹ , L.E. Sima ² , M. Icriverzi ^{2,3} , L. Rusen ¹ , ¹ National Institute for Lasers, Romania, ² Institute of Biochemistry, Romania, ³ University of Bucharest –Faculty of Biology, Romania

[P1.037]	Blue-light accelerated formation of bio-mediated or coated silver and gold nanoparticles R. Garg, A. Ganguly, K. Dolma*, Y.S. Rathore, <i>Institute of Microial Technology (IMTech), India</i>
[P1.038]	Influence of the silica support structure on the optical properties of the immobilized porphyrins Z. Dudás ^{1,2} , A. Len ¹ , J. Füz ¹ , E. Fagadar-Cosma ¹ , ¹ Wigner Research Center for Physics, Hungary, ² Institute of Chemistry Timișoara, Romania
[P1.039]	Flexible and functional silsesquioxane gels based on organotrialkoxysilanes C. Ehgartner*, A. Feinle, G. Bourret, N. Hüsing, <i>Paris Lodron University Salzburg, Austria</i>
[P1.040]	Phosphorus dendrimers templated sol-gel synthesis of mesoporous crystalline anatase nanoparticles: insight in their interaction with bio-cells and use for hydrogen photo-evolution A. El Kadib*, N. Katir, M. Bousmina, <i>Université Euro-Méditerranéenne de Fès, Morocco</i>
[P1.041]	Tunable synthesis of hollow silica spheres and their application for highly transparent and thermally insulating polymer film L. Ernawati*, T. Ogi, R. Balgis, K. Okuyama, <i>Hiroshima University, Japan</i>
[P1.042]	Graphene-based 3D network: production and characterization V. Ettorre ¹ , A. Aliprandi ² , M. Eredia ² , A. Fontana ¹ , P. Samori ² , ¹ University G. d'Annunzio, Italy, ² Université de Strasbourg & CNRS, France
[P1.043]	Nanocomposites based SEBS/PP with copper nanoparticles: Antimicrobial behavior, physical, mechanical and thermal properties V. Ferreira Ribeiro ^{1,2} , D. Nauê Simões ^{1,2} , M. Pittol ¹ , D. Tomacheski ^{1,2} , R. Campomanes Santana ¹ , ¹ Softer Brasil Compostos Termoplásticos LTDA, Brazil, ² PPGE3M- Universidade Federal do Rio Grande do Sul, Brazil
[P1.044]	Preparation of heteroatom-doped carbons and carbon nanocomposites using a eutectic mixture based synthesis and their performance as metal-free oxygen reduction catalysts M.L. Ferrer*, N. Lopez-Salas, M.C. Gutierrez, F. del Monte, <i>ICMM-CSIC, Spain</i>
[P1.045]	Vanadia-titania multilayer nanodecoration of carbon onions via atomic layer deposition for high performance electrochemical energy storage S. Fleischmann ¹ , A. Tolosa ^{1,2} , M. Zeiger ^{1,2} , V. Presser ^{1,2} , ¹ Saarland University, Germany, ² INM - Leibniz Institute for New Materials, Germany
[P1.046]	Characterization of carbon nanotubes and graphene oxide coatings on metal substrates for potential use in the regeneration of nerve cells A. Fraczek-Szczypta ¹ , A. Wedel-Grzenda ¹ , F. Ciepiela ¹ , D. Jantas ¹ , ¹ AGH-University of Science and Technology, Poland, ² Polish Academy of Science, Poland
[P1.047]	Magnetic properties of hybrid lamellar composites based on MnPS₃ P. Fuentealba ^{1,2} , V. Paredes-García ^{2,3} , D. Venegas-Yazigi ^{2,4} , J. Manzur ¹ , C.J. Magon ⁵ , E. Spodine ¹ , ¹ Universidad de Chile, Chile, ² CEENNA, Chile, ³ Universidad Andrés Bello, Chile, ⁴ Universidad de Santiago de Chile, Chile, ⁵ Universidade de Sao Paulo, Brazil
[P1.048]	Solvent-free liquid proteases J.H. Furze*, A.W. Perriman, S. Mann, <i>The University of Bristol, UK</i>
[P1.049]	Chiral gold nanoparticle superstructures directed by silica nanohelices: towards innovative chiro-optical properties J. Gao*, E. Pouget, R. Oda, <i>Chimie Biologie des Membranes et Nanoobjets, France</i>
[P1.050]	Active Fe₂O₃ nanoparticles encapsulated in porous g-C₃N₄/graphene sandwich-type nanosheets as superior anode for high-performance lithium-ion batteries L. Gao*, M.J. Shi, X.F. Song, P. Zhang, <i>Shanghai Jiao Tong University, China</i>
[P1.051]	Slippery liquid-infused surfaces for anti-icing applications in polar environment V. Gavrillov ^{1,2} , J. Teisseire ¹ , A. Sauret ¹ , E. Verneuil ² , E. Barthel ² , ¹ Saint Gobain, France, ² École Supérieure de Physique et de Chimie Industrielles de Paris (ESPCI), France
[P1.052]	Synthesis of trimagnetic multishell MnFe₂O₄@CoFe₂O₄@NiFe₂O₄ nanoparticles V. Gavrillov*, V. Dupuis, D. Taverna, S. Neveu, <i>Université Pierre et Marie Curie (UPMC), France</i>
[P1.053]	Effect of DOPE PEG2000 on DPPC/Anti-SNAP25 mixed monolayer: A thermodynamic and AFM study L.T. Gew ^{1,2} , M. Misran ² , ¹ Sunway University, Malaysia, ² University of Malaya, Malaysia
[P1.054]	Sorption of Lead (II) and Nickle (II) ions from aqueous solutions using activated carbon prepared from the Eucalyptus leaves N. Ghasemi*, M. Farajidana, A. Qadiri, <i>Islamic Azad University, Iran</i>
[P1.055]	Inorganic octahedral cluster units, versatile functional nanoblock for nanocomposite materials F. Grasset ^{1,2} , M. Wilmet ^{1,3} , N. Dumait ³ , A. Renaud ³ , M. Amela-Cortes ³ , S. Cordier ³ , Y. Molard ¹ , B. Dierre ^{1,2} , N.T.K. Nguyen ^{1,2} , N. Saito ^{1,2} , ¹ UMI 3629 CNRS-Saint Gobain-NIMS, Japan, ² NIMS, Japan, ³ UMR 6226 CNRS-University of Rennes 1, France, ⁴ Saint-Gobain Research Center, France

[P1.056]	Multimodal contrast media for MRI and K-edge spectral scanner cerebral imaging N. Halttunen ^{*1,2} , F. Lerouge ^{1,2} , F. Chaput ^{1,2} , S. Parola ^{1,2} , M. Wiart ^{3,5} , Y. Berthezène ^{3,4} , P. Douek ^{3,4} , L. Bousset ^{3,4} , D. Barnes ^{3,4} , M. Sigovan ^{3,4} , ¹ ENS Lyon, France, ² Université Claude Bernard Lyon 1, France, ³ Inserm, France, ⁴ CREATIS, France, ⁵ Université de Lyon, France
[P1.057]	Partially unzipped multi-walled carbon nanotubes with high specific surface area for porous electrode materials in ultracapacitors J. Han*, K.C. Kwang, <i>Korea Institute of Ceramic Engineering and Technology, Republic of Korea</i>
[P1.058]	High-throughput Screening of Porous Materials for Propylene/Propane Adsorptive Separation B.C. Yeo, S.S. Han*, <i>Korea Institute of Science and Technology, Republic of Korea</i>
[P1.059]	Rapidly forming blood-aggregating hydrogels based on alginate/polyethyleneimine for use as a hemostatic agent M.E. Han*, J.H. Joo, E.K. Yang, <i>Sk Bioland, Republic of Korea</i>
[P1.060]	Self-assembly of phenyl-POSS thin films B. Handke*, L. Klita, N. Gębicka, <i>AGH University of Science and Technology, Poland</i>
[P1.061]	Porous silicon nanoneedles as a tool to manipulate primary human cells C.S. Hansel*, S.W. Crowder, S. Cooper, S. Gopal, M.J.P.D. Cruz, A.E.G. Cass, C. Bakal, C. Chiappini, M.M. Stevens, <i>Imperial College, UK</i>
[P1.062]	Comparison of cycle performances of Si nanoparticle-containing Li-ion battery anodes hybridized with various carbon materials G. Hasegawa, <i>Kyushu University, Japan</i>
[P1.063]	Silica nanofibers as drug delivery systems for intervertebral disc regenerative medicine: Analysis of protein-silica interactions N. Henry ^{*1,2} , J. Clouet ^{1,3} , C. Le Visage ¹ , E. Gautron ² , B. Humbert ² , J. Guicheux ^{1,4} , J. Le Bideau ² , ¹ Université de Nantes, France, ² Institut des Matériaux Jean Rouxel (IMN), France, ³ CHU Nantes, France
[P1.064]	Surface plasmon & visible light for polymer functionalization of mesoporous films N. Herzog*, J. Kind, A. Andrieu-Brunsen, <i>Technische Universität Darmstadt, Germany</i>
[P1.065]	Wearable three-dimensional micro patterned device to detect a specific toxic substance in blood without skin incision M-H. Hong ^{*1,2} , J. Na ¹ , J. Kwon ¹ , J. Yoo ¹ , S. Yi ² , H-J. Choi ¹ , ¹ Yonsei University College of Engineering, Republic of Korea, ² Yonsei University College of Medicine, Republic of Korea
[P1.066]	Synthesis of orthosilicic acid and its oligomers M. Igarashi*, T. Matsumoto, F. Yagihashi, K. Sato, S. Shimada, <i>National Institute of Advanced Industrial Science and Technology (AIST), Japan</i>
[P1.067]	Size selective synthesis of tin oxide clusters by dendrimer template method and the size dependency for CO oxidation reaction Y. Inomata*, K. Albrecht, K. Yamamoto, <i>Tokyo Institute of Technology, Japan</i>
[P1.068]	Nanofiber-based filaments of M13-bacteriophages and SnO₂ T. Jahnke*, S. Kilper, Z. Burghard, D. Rothenstein, J. Bill, <i>University of Stuttgart, Germany</i>
[P1.069]	Mechanical and durable properties of Ni-YSZ electrode under high temperature for solid oxide electrolysis stack B.K. Jang ^{*1} , M. Matsudaira ² , S.D. Kim ³ , S.K. Woo ³ , ¹ National Institute for Materials Science, Japan, ² Japan Fine Ceramics Center, Japan, ³ Korea Institute of Energy Research, Republic of Korea
[P1.070]	Compression behavior and microstructure of Ti foams synthesized via freeze casting P. Jenei ^{*1} , H. Choi ² , A. Tóth ¹ , H. Choe ² , J. Gubicza ¹ , ¹ Eötvös Loránd University, Hungary, ² Kookmin University, Republic of Korea
[P1.071]	Marine sponge skeleton as support for natural dye adsorption T. Jesionowski ^{*1} , M. Norman ¹ , H. Ehrlich ² , ¹ Poznan University of Technology, Poland, ² TU Bergakademie Freiberg, Germany
[P1.072]	Extreme biomimetic approach for development of chitin-based nanocomposites T. Jesionowski ^{*1} , M. Wysocki ¹ , H. Ehrlich ² , ¹ Poznan University of Technology, Poland, ² TU Bergakademie Freiberg, Germany
[P1.073]	Biocompatibility of silicalite-1 films I. Jirka ^{*1} , M. Vandrovcova ¹ , V. Brezina ² , L. Bacakova ¹ , ¹ ASCR, v.v.i., Czech Republic, ² University of South Bohemia in České Budějovice, Czech Republic
[P1.074]	CuO-NiO-ZnO mixed metal oxide nanoparticles prepared by homogeneous precipitation method A.O. Juma, <i>Botswana International University of Science and Technology, Botswana</i>

[P1.075]	Chitosan films incorporated with turmeric extract: Physical and antibacterial properties Z. Kalaycioglu* ¹ , E. Torlak ² , G. Akin-Evingür ³ , I. Ozen ⁴ , F.B. Erim ¹ , ¹ Istanbul Technical University, Turkey, ² Necmettin Erbakan University, Turkey, ³ Piri Reis University, Turkey, ⁴ Erciyes University, Turkey
[P1.076]	Synthesis and application of titanium-containing hierarchically mesoporous catalysts with MFI crystalline structure K-K. Kang* ¹ , C-S. Lee ¹ , H-K. Rhee ² , ¹ Chungnam National University, Republic of Korea, ² Seoul National University, Republic of Korea
[P1.077]	Dispersion and orientation of single domain core-shell α''-Fe₁₆N₂/Al₂O₃ nanoparticles C.W. Kartikowati*, T. Ogi, K. Okuyama, Hiroshima University, Japan
[P1.078]	Functional biopolymers from processed animal proteins for the leather industry M.A. Perez-Limiñana, M.D. Romero-Sanchez*, M.J. Escoto-Palacios, F. Aran-Ais, INESCOP. Centre for Technology and Innovation, Spain
[P1.079]	Composite materials based on poly(lactic) and poly(acrylic) acid for biological applications V. Kataeva* ¹ , N. Danilenko ¹ , K. Stankevich ¹ , R. Gadirov ² , S. Goreninskii ¹ , S. Tverdokhlebov ¹ , V. Filimonov ¹ , ¹ Tomsk Polytechnic University, Russia, ² Tomsk State University, Russia
[P1.080]	Porous aromatic organosilicates: surface chemistry M. Kejik* ¹ , J. Gabelius ² , Z. Moravec ¹ , C.E. Barnes ³ , A. Kareiva ² , J. Pinkas ¹ , ¹ Masaryk University, Czech Republic, ² Vilnius University, Lithuania, ³ University of Tennessee, USA
[P1.081]	Synthesis of functional high surface area metal-chitosan composites C. Khoury*, O.M. Gazit, Technion Israel Institute of Technology, Israel
[P1.082]	Extremely durable fouling-resistant liquid-infused slippery coatings on steel A.B. Tesler ¹ , P. Kim* ^{1,2} , S. Kolle ¹ , C. Howell ¹ , O. Ahanotu ¹ , J. Aizenberg ¹ , ¹ Harvard University, USA, ² SLIPS Technologies, Inc., USA
[P1.083]	One-pot synthesis of hierarchically porous inorganic materials by combining controlled macro- and microphase separation S. Kim*, J. Hwang, J. Lee, Pohang University of Science and Technology, Republic of Korea
[P1.084]	Organic-inorganic hybrids based on kraft lignin and inorganic components - from synthesis to application L. Klapiszewski*, T. Jesionowski, Poznan University of Technology, Poland
[P1.085]	Lignin-silica hybrid materials as potential fillers for phenolic binders L. Klapiszewski*, B. Strzemiecka, A. Voelkel, T. Jesionowski, Poznan University of Technology, Poland
[P1.086]	Structuring ceramic scaffolds using a cuttlebone-like design A. Knöllner*, Z. Burghard, J. Bill, University of Stuttgart, Germany
[P1.087]	Differentiation-inducing peptide: A novel approach to inducing hepatocyte differentiation from human induced pluripotent stem cells N. Kobayashi* ^{1,2} , M. Sawada ³ , Y. Yoshida ⁴ , K. Tanaka ² , I. Nakase ⁵ , T. Yoshida ^{1,2} , ¹ Keio University, Japan, ² Toagosei Co., Ltd., Japan, ³ Nagoya University, Japan, ⁴ Kyoto University, Japan, ⁵ Osaka Prefecture University, Japan
[P1.088]	Autonomous graphene vessel for collecting liquid body of spilled oil W. Jung*, T. Kim, Y. Kim, Seoul National University, Republic of Korea
[P1.089]	Multifunctional bio-molecules: A precipitant and anion controlling agent on the synthesis of layered double hydroxides and their arsenate adsorption P. Koilraj*, K. Sasaki, Kyushu University, Japan
[P1.090]	Application of heterogeneous catalysed azide-alkyne cycloaddition for surface patterning I. Kotelnikov*, J. Kucka, S. Popelka, F. Rypack, V. Proks, Institute of Macromolecular Chemistry of the AC CR, Czech Republic
[P1.091]	Combination of hard sphere and emulsion templating for hierarchically porous polymer materials P. Krajnc* ¹ , J. Kotek ² , M. Paljevac ¹ , ¹ University of Maribor, Slovenia, ² Institute of Macromolecular Chemistry, Czech Republic
[P1.092]	Properties of aluminium based multifunctional composite materials exhibiting magnetism fabricated by mechanical alloying and spark plasma sintering M. Kubota, Nihon University, Japan
[P1.093]	THz spectroscopy as a tool for monitoring insulating oil degradation M.H. Kwak* ¹ , Y.S. Kim ² , D.C. Chung ³ , N.K. Son ⁴ , S.B. Kang ⁵ , ¹ Chnagwon Moonsung University, Republic of Korea, ² Korea Electrical Safety Corporation, Republic of Korea, ³ Woosuk University, Republic of Korea, ⁴ DADA Korea Co., Ltd, Republic of Korea, ⁵ POIBOS Inc., Republic of Korea
[P1.094]	Multifunctional nanoparticles for tracking and imaging with potential applications in radiotherapy M. Lavenas* ¹ , M. Simon ³ , H. Seznec ³ , J. Rocha ² , L. Carlos ² , M.H. Delville ¹ , ¹ Université de Bordeaux, ICMCB, France, ² Universidade de Aveiro, CICECO, Portugal, ³ Université de Bordeaux, CENBG, France

[P1.095]	Selective palladium adsorption on protein materials H. Yun, Y. Kim, K.H. Lee*, <i>Seoul National University, Republic of Korea</i>
[P1.096]	Determination of osteoblastic differentiation and osteogenic transcription factor expression on fibronectin- or bone sialoprotein II-immobilized microgrooved titanium substrata S.W. Lee*, K.H. Lee, <i>Kyung Hee University, Republic of Korea</i>
[P1.097]	Synthesis of environment friendly phospholipid biosurfactants and characterization of interfacial properties S.M. Lee ¹ , J.Y. Lee ¹ , B.J. Kim ² , H.P. Yu ² , G.H. Park ² , J.C. Lim* ¹ , ¹ <i>Dongguk University, Republic of Korea</i> , ² <i>AK ChemTech Central Research Lab, Republic of Korea</i>
[P1.098]	A facile novel fluorocarbon copolymer solution coating process for improving platelet compatibility of titanium C-W. Huang ¹ , C-H. Cheng ^{2,3} , Y. Chiu ¹ , Y-C. Lin ⁴ , J-C. Lin* ¹ , ¹ <i>National Cheng Kung University, Taiwan</i> , ² <i>Chang Gung Memorial Hospital, Taiwan</i> , ³ <i>Chang Gung University, Taiwan</i> , ⁴ <i>Fooyin University, Taiwan</i>
[P1.099]	Synthesis and precise light triggering of metastable DNA/gold-nanoparticle microstructures S. Loescher*, R. Merindol, A. Walther, <i>Albert-Ludwigs-University Freiburg, Germany</i>
[P1.100]	One dimensional hybrid materials for optical applications: Fluorescent dyes into aluminophosphates I. López-Arbeloa* ¹ , V. Martínez-Martínez ¹ , R. Sola-LLano ¹ , L. Gómez-Hortigüela ² , A. Alfayate ² , Y. Fujita ³ , H. Uji-i ³ , E. Fron ³ , J. Pérez-Parente ¹ , ¹ <i>Universidad del País Vasco UPV/EHU, Spain</i> , ² <i>Inst. Catálisis y Petroquímica CSIC, Spain</i> , ³ <i>KU Leuven, Belgium</i>
[P1.101]	Tuning mesoporosity of carbon materials with deep eutectic solvents N. López-Salas* ¹ , D. Carriazo ² , M.C. Gutiérrez ¹ , M.L. Ferrer ¹ , F. del Monte ¹ , ¹ <i>Institute of Materials Sciences of Madrid, Spain</i> , ² <i>CSIC, Spain</i>
[P1.102]	Development of organic and inorganic semiconductors for applications in solar cells and field-effect transistors J. Lu*, T. Chu, S. Alem, A. Dadvand, S. Lang, R. Movileanu, Y. Tao, <i>National Research Council of Canada, Canada</i>
[P1.103]	Synergistic adsorption of Sr²⁺ and ClO₄ on encapsulated organo-montmorillonite in alginate W. Luo*, K. Sasaki, <i>Kyushu University, Japan</i>
[P1.104]	Spray pyrolysis synthesis of γ-Al₂O₃ supported metal and metal phosphide catalysts and their activity in the hydrodeoxygenation of a bio-oil model compound H.V. Ly ¹ , K. Im ² , Y. Go ² , S-S. Kim* ¹ , J. Kim ² , H.C. Woo ³ , ¹ <i>Kangwon National University, Republic of Korea</i> , ² <i>Kyung Hee University, Republic of Korea</i> , ³ <i>Pukyong National University, Republic of Korea</i>
[P1.105]	Hierarchical porous MnO₂/carbon derived from biomass for high-performance supercapacitors M. Yang ¹ , D.S. Kim ² , S.B. Hong ² , J. Kim ³ , J-W. Sim ² , S-S. Kim* ² , B.G. Choi ² , ¹ <i>National NanoFab Center, Republic of Korea</i> , ² <i>Kangwon National University, Republic of Korea</i> , ³ <i>Kyung Hee University, Republic of Korea</i>
[P1.106]	One step synthesis of hybrid organic/inorganic materials by combination of light-induced click reactions and photosol-gel process E. Maetz*, C. Croutxé-Barghorn, X. Allonas, C. Delaite, <i>University of Haute Alsace, France</i>
[P1.107]	Ni-Pd bimetallic catalysts for the direct synthesis of H₂O₂ - unusual enhancement of Pd activity in presence of Ni S. Maity*, M. Eswaramoorthy, <i>Jawaharlal Nehru Centre for Advanced Scientific Research, India</i>
[P1.108]	Mechanism of removing Sr²⁺ by using scallop shell powder F. Mihara*, K. Takeuchi, S. Tamura, K. Yasuo, Y. Idemoto, <i>Tokyo university of science, Japan</i>
[P1.109]	Copper(II) benzoates with trimethoxy groups M. Mikuriya* ¹ , C. Yamakawa ¹ , D. Yoshioka ¹ , R. Mitsuhashi ¹ , H. Tanaka ² , M. Handa ² , ¹ <i>Kwansei Gakuin University, Japan</i> , ² <i>Shimane University, Japan</i>
[P1.110]	A new force field for organosilica precursors of mesoporous materials A.W. Milne*, M. Jorge, <i>University of Strathclyde, UK</i>
[P1.111]	Design of an electromagnetic absorber using porous graphene based meta surface G. Samanta, D. Mitra*, <i>Indian Institute of Engineering Science and Technology Shibpur, India</i>
[P1.112]	When heterogeneous catalysts are more efficient than homogeneous: porous hybrid materials based on 1,10-phenanthrolines A. Lemeune ¹ , S. Brandès ¹ , A. Mitrofanov* ^{1,2} , J. Michalak ¹ , R. Guillard ¹ , I. Beletskaya ² , ¹ <i>ICMUB (UMR CNRS 6302, France)</i> , ² <i>Lomonosov Moscow State University, Russia</i>
[P1.113]	Efficient decontamination of chemical warfare agents (CWAs) byfunctionalized hollow rectangular silica nanotubes D.M. Mizrahi*, H. Rotter, <i>IIBR, Israel</i>

[P1.114]	Design and integration of phosphorescent metal cluster based hybrid organic-inorganic nanomaterials Y. Molard* ¹ , M. Amela-Cortes ¹ , M. Prévôt ¹ , M. Robin ¹ , N. Dumait ¹ , S. Paofai ¹ , J. Bignon ¹ , N. Huby ¹ , A. Garreau ² , F. Massuyeau ² , ¹ Université de Rennes 1, France, ² Université de Nantes, France, ³ University of Oxford, UK
[P1.115]	Urease-polyether hybrid containing anti-inflammatory and anti-cancer drugs as a versatile dual-drug delivery system E.F. Molina*, B.B. Caravieri, Universidade de Franca -UNIFRAN, Brazil
[P1.116]	Novel polyacidic poly(THF) copolymers: Antiscalant or shape controller in CaCO₃ mineralization depends on structural motive M. Montigny*, B. Barton, E-M. Christ, M. Nalbach, A. Kühnle, H. Frey, W. Tremel, Johannes Gutenberg-University, Germany
[P1.117]	Functionalized nanoparticles as supramolecular surfactants for growth control of CaCO₃ M. Montigny* ¹ , B. Barton ¹ , G. Auernhammer ² , M. Nalbach ¹ , A. Kühnle ¹ , H-J. Butt ² , W. Tremel ¹ , ¹ Johannes Gutenberg-University, Germany, ² Max-Planck Institute for Polymer Research, Germany
[P1.118]	Adsorption of naphthalimide dyes on ZnO and NiO nanoparticles C.G. Santana, T.B.F. Moraes*, T.S. Toledo, E.R. Triboni, University of São Paulo, Brazil
[P1.119]	Silica-based hybrid monolithic materials for CO₂ sorption A. Ciemiega ¹ , K. Maresz ¹ , J. Mrowiec-Bialon* ^{1,2} , ¹ Polish Academy of Sciences, Poland, ² Silesian University of Technology, Poland
[P1.120]	Customisable nanomedicines from multifunctional polymer architectures M. Muellner* ^{1,2} , T. Pelras ¹ , D. Mehta ³ , C.J.H. Porter ³ , ¹ University of Sydney, Australia, ² Australian Institute for Nanoscale Science and Technology, Australia, ³ Monash Institute of Pharmaceutical Sciences, Australia
[P1.121]	Smart fluoropolymer-coated biointerface for visible-light induced cell detachment system M. Nakayama* ¹ , T. Kanno ² , A. Kikuchi ² , T. Okano ¹ , ¹ Tokyo Women's Medical University, Japan, ² Tokyo University of Science, Japan
[P1.122]	Charge transfer resistance of glasses and glass ceramics of the SiO₂-Li₂O-Bi₂O₃-Na₂O system B. Nascimento de Souza*, T. Pavei Macan, L.P. Spricigo, A.M. Bernardin, Universidade do Extremo Sul Catarinense, Brazil
[P1.123]	Hybrid mesoporous silica for antitumoral and toxicological evaluation in vitro E.J. Nassar*, W.R. Braz, N.L. Rocha, E.H. de Faria, M.L.A. Silva, K.J. Ciuffi, D.C. Tavares, R.A. Furtado, L.A. Rocha, Universidade de Franca, Brazil
[P1.124]	Electrostatic immobilization of substrate and polyoxometalate catalyst at the surface of micelles for enhanced reaction efficiency in water L. Schue ¹ , P.M. Jean-Baptiste ¹ , Y. Du ¹ , H. Jintoku ² , H. Ihara ² , R. Oda ¹ , S. Nlate* ¹ , ¹ University of Bordeaux, France, ² University of Kumamoto, Japan
[P1.125]	Solar thermochemical production of hydrogen based on highly porous cork ecoceramics R.C. Pullar ¹ , L. Gil ³ , R.M. Novais* ¹ , F.A.C. Oliveira ² , ¹ University of Aveiro, Portugal, ² Laboratório Nacional de Energia e Geologia (LNEG), Portugal, ³ Direção Geral de Energia e Geologia (DGEG), Portugal
[P1.126]	Monolithic aerogel-based nanocomposites for ionizing radiation detection in liquids M. Odziomek* ^{1,3} , F. Chaput ¹ , C. Dujardin ² , F. Lerouge ¹ , M. Sitarz ³ , S. Parola ¹ , ¹ Ecole Normale Supérieure, France, ² Institut Lumière Matière, France, ³ University of Science and Technology, Poland
[P1.127]	Design of hybrid materials based on nitroxide grafted on transition metal oxide for selective oxidation of sugar M. Omri* ^{1,2} , M. Becuwe ² , G. Pourceau ¹ , A. Wadouachi ¹ , ¹ Laboratoire de Glycochimie, des Antimicrobiens et des Agroressources, France, ² Laboratoire de Réactivité et Chimie des Solides, France
[P1.128]	Bio-based thermoplastic polyurethane hybrid nanocomposites with graphene and carbon nanotubes I. Otaegi*, N. Aranburu, J.I. Eguiazábal, University of the Basque Country UPV/EHU, Spain
[P1.129]	MnFe₂O₄/C nanocomposites-excellent adsorbent materials for removal of phenol, p-nitrophenol and p-chlorophenol from aqueous solutions C. Pacurariu*, M. Stoia, E. Muntean, Politehnica University Timișoara, Romania
[P1.130]	The synthesis of polyurethane microcapsules and evaluation of self-healing paint protection properties S.Y. Park* ¹ , E.J. Koh ¹ , ¹ Korea Research Institute of Chemical Technology, Republic of Korea, ² Kyung Hee University, Republic of Korea
[P1.131]	Electrical transport properties of bilayer graphene during thermal annealing C.S. Park* ¹ , D. Chu ¹ , Y. Shon ² , J.W. Lee ² , E.K. Kim ¹ , ¹ Hanyang University, Republic of Korea, ² Dongguk University, Republic of Korea

[P1.132]	Enhancement of ionic conductivity of hybrid composite membranes for all-solid-state lithium secondary batteries J.W. Park*, J.Y. Park, J.H. Choi, C.H. Doh, S.M. Lee, <i>Korea Electrotechnology Research Institute(KERI), Republic of Korea</i>
[P1.133]	Lipid nanoparticles for encapsulation of pralidoxime chloride (2-pam) T. Pashirova* ¹ , K. Petrov ^{1,2} , V. Babaev ^{1,3} , I. Zueva ¹ , S. Lukashenko ¹ , E. Souto ^{4,5} , I. Rizvanov ¹ , P. Masson ² , L. Zakharova ^{1,3} , O. Sinyashin ¹ , ¹ Russian Academy of Sciences, Russia, ² Kazan Federal University, Russia, ³ Kazan State Technological University, Russia, ⁴ University of Coimbra (FFUC), Portugal, ⁵ University of Coimbra, Portugal
[P1.134]	Lipid-core nanopharmaceutics for topical administration of antioxidant vitamin E M. Teixeira ¹ , T. Andreani ^{2,3} , T. Pashirova* ⁴ , L. Zakharova ^{4,5} , A. Silva ^{2,3} , E. Souto ^{1,6} , ¹ University of Coimbra (FFUC), Portugal, ² University of Trás-os-Montes e Alto Douro, Portugal, ³ Centre for Research and Technology of Agro-Environmental and Biological Sciences, Portugal, ⁴ Russian Academy of Sciences, Russia, ⁵ Kazan State Technological University, Russia, ⁶ University of Coimbra, Portugal
[P1.135]	A bio-composite made from non-woven banana fibres and banana-sap based bio-resin V. Paul*, K. Kanny, <i>Durban University of Technology, South Africa</i>
[P1.136]	Performance of functionalized POSS derivatives applied to smart anti-fouling concepts M. Pilz* ¹ , N. Rival ¹ , E. Langseth ¹ , T.P. Teixeira ² , S.B. Larroze ² , R.C.A. Onderwater ³ , Y. Benayahu ⁴ , C.R. Simon ¹ , ¹ SINTEF Materials and Chemistry, Norway, ² AquaBioTech Group, Malta, ³ MateriaNova, Belgium, ⁴ Tel Aviv University, Israel
[P1.137]	Positive effect of fluorine moiety on oxygen storage capacity of UiO-66 metal-organic frameworks C.G. Piscopo* ¹ , F. Trapani ^{1,2} , A. Polyzoidis ¹ , M. Schwarzer ¹ , A. Pace ² , S. Loebbecke ¹ , ¹ Fraunhofer Institute for Chemical Technology, Germany, ² Università di Palermo, Italy
[P1.138]	Nitrogen-rich metal-organic frameworks for energetic applications A. Polyzoidis*, C.G. Piscopo, M. Schwarzer, D. Boskovic, S. Loebbecke, <i>Fraunhofer ICT, Germany</i>
[P1.139]	Design of functional nanostructures: A story of chirality transfer! E.P. Pouget*, R.O. Oda, <i>CNRS/Bordeaux University, France</i>
[P1.140]	Structural phase transitions in heterometallic perovskite-type metal formates templated by protonated amines M. Ptak*, M. Maczka, A. Gagor, A. Sieradzki, A. Ciupa, B. Bondzior, <i>Polish Academy of Sciences, Poland</i>
[P1.141]	"Chemical nose" for identification of proteins based on nano fluorescent polymer-pyrene/g-CD complexes L. Qi*, N. Li, J. Qiao, Y. Chen, <i>Chinese Academy of Sciences, China</i>
[P1.142]	Construction of fluorescent polymeric thermometers for temperature mapping in living cells J. Qiao*, L. Qi, <i>Chinese Academy of Sciences, China</i>
[P1.143]	Electrical storage properties of nanodiamonds and nanoions in carbon composites I. Lederer ¹ , A. Muzha ² , A. Krüger ² , G. Reichenauer* ¹ , ¹ Bavarian Center of Applied Energy Research, Germany, ² Julius-Maximilians University Würzburg, Germany
[P1.144]	WITHDRAWN
[P1.145]	Activated carbon with partial graphitic structure derived from lignocellulosic biomass for electrode materials in ultracapacitors K.C. Roh, <i>Korea Institute of Ceramic Engineering and Technology, Republic of Korea</i>
[P1.146]	Layered simple hydroxides hybridized by aromatic molecules bearing phosphonate anchoring functions: towards new (multi)functional layered magnets Q. Evrard ¹ , M. Roger ² , P-A. Jaffrès ² , J-M. Rueff* ³ , E. Delahaye ¹ , P. Rabu ¹ , G. Rogez ¹ , ¹ CNRS-University of Strasbourg, France, ² CNRS-Université de Bretagne Occidentale, France, ³ CNRS-ENSICAEN, France
[P1.147]	Design of new silver-based hybrid phosphonates with potential bactericidal properties J.M. Rueff* ¹ , O. Perez ¹ , V. Caignaert ¹ , T. Le Gall ² , T. Montier ² , G.B. Hix ³ , M. Berchel ⁴ , F. Quentel ⁴ , P.A. Jaffres ⁴ , ¹ CRISMAT, France, ² Faculté de Médecine et des Sciences de la Santé, France, ³ University of Wolverhampton, UK, ⁴ CEMCA, France
[P1.148]	Highly porous wollastonite, wollastonite-diopside and wollastonite-tricalcium phosphate biomimetic scaffolds for bone regeneration I. Torres, E. Garijo, M.A. Sainz*, <i>Institute Ceramics and Glass (CSIC), Spain</i>
[P1.149]	Engineering of a silica encapsulation platform for hydrocarbon degradation using Pseudomonas sp. NCIB 9816-4 J.K. Sakkos*, D.P. Kieffer, B.R. Mutlu, L.P. Wackett, A. Aksan, <i>University of Minnesota, USA</i>
[P1.150]	Bioregeneration of Ormosil gel for remediation of PAHs from water J.K. Sakkos*, B.R. Mutlu, L.P. Wackett, A. Aksan, <i>University of Minnesota, USA</i>
[P1.151]	Controlling the structure and habit of mesocrystals formed by iron oxide nanocubes

	E. Wetterskog ¹ , G. Salazar-Alvarez ^{*2} , ¹ Uppsala University, Sweden, ² Stockholm University, Sweden
[P1.152]	Investigation of dielectric properties of barium titanate and carbon nanotubes embedded in polyvinylidene fluoride matrix A. Salem ^{*1,2} , B. Fan ³ , F. Jomni ² , J. Bai ³ , A. Sylvestre ¹ , ¹ Université Grenoble Alpes, France, ² University of Tunis El Manar, Tunisia, ³ Ecole Centrale de Paris, France
[P1.153]	Hybrid coatings to prevent stone deterioration S.P. Morais, J.C. Almeida, I.M. Salvado*, <i>University of Aveiro, Portugal</i>
[P1.154]	Complex hybrid nanomaterials from gold bipyramids A. Sánchez-Iglesias ^{*1} , M. Grzelczak ^{1,2} , L.M. Liz-Marzán ^{1,2} , ¹ CIC biomaGUNE, Spain, ² Ikerbasque, Spain
[P1.155]	Modification of macroporous nickel electrodes with silver nanoparticles, for their use in hydrogen production R. Medina-Orta ¹ , C. González-Buch ² , E.M. Ortega-Navarro ² , V. Pérez-Herranz ² , M.G. Sánchez-Loredo ^{*1} , ¹ Universidad Autónoma de San Luis Potosí, Mexico, ² Universidad Politécnica de Valencia, Spain
[P1.156]	Permanent excimer superstructures by supramolecular networking of metal quantum clusters B. Santiago Gonzalez ^{*1} , A. Monguzzi ¹ , J. Azpiroz ² , ¹ University of Milano Bicocca, Italy, ² National Research Council–Institute of Molecular Science and Technologies, Italy
[P1.157]	Potassium poly(Heptazine imide) - Visible light heterogeneous photocatalyst for organic substrates oxidation O. Savateev*, B. Kurpil, M. Antonietti, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[P1.158]	Simple engineering of polymer-nanoparticle hybrid nanocapsules towards "Hybridosomes®" F. Sciortino ^{*1} , S. Chevance ¹ , M. Kahn ² , F. Gauffre ¹ , ¹ UMR 6226 CNRS, Université Rennes 1, France, ² Laboratoire de Chimie de Coordination UPR8241 CNRS, France
[P1.159]	Microfibrillated cellulose and lignosulfonate composites: Bio-carbon precursors for applications in energy storage devices Y. Shao ^{*1,2} , C. Guizani ^{1,2} , D. Chaussy ^{1,2} , D. Beneventi ^{1,2} , ¹ Université Grenoble Alpes, France, ² CNRS, France, ³ Agefpi, France
[P1.160]	Hybrid thermoelectric sheets containing SG-CNT/Nanoparticles/Polymer Y. Shiraishi*, K. Oshima, J. Inoue, T. Matsumura, H. Sawai, Y. Du, N. Toshiba, <i>Tokyo Univ. of Science Yamaguchi, Japan</i>
[P1.161]	Oxidative silk – MnO₂ nanoparticles hybrid catalysts M. Singh*, C. Musy, E. Dey, C. Dicko, <i>Lund University, Sweden</i>
[P1.162]	Near-infrared SERS measurements on metal coated porous silicon photonic crystals M. Kosovic ^{1,2} , M. Škrabic ^{*1} , M. Gotic ^{2,3} , O. Gamulin ^{1,2} , M. Ivanda ^{2,3} , M. Balarin ^{1,2} , ¹ University of Zagreb, School of Medicine, Croatia, ² Center of Excellence for Advanced Materials and Sensing Devices, Croatia, ³ Rudjer Boškovic Institute, Croatia
[P1.163]	Synthesis and characterization of silica aerogel-based nanocomposites with carbon microfibers and carbon nanotubes in hybrid system A. Slosarczyk, <i>Poznan University of Technology, Poland</i>
[P1.164]	Reversible "off-on-off" fluorescent chemosensor for Al³⁺ and INHIBIT logic gate mimics Y.A. Son*, J.M. Jeong, I.J. Kim, <i>Chungnam National University, Republic of Korea</i>
[P1.165]	Hollow MoS₂-carbon anode materials synthesized with a space-confined reaction for high performance lithium ion batteries X.F. Song*, Z. Sun, P. Zhang, L. Gao, <i>Shanghai Jiao Tong University, China</i>
[P1.166]	Gas adsorption by plasmid DNA and DNA-[Bmim][PF₆] construct: A QCM based mechanistic study S.K. Soni ^{*1} , K.M.M. Kabir ¹ , R. Babarao ² , V.E. Coyle ¹ , Y. Sabri ¹ , S. Sarkar ¹ , S.K. Bhargava ¹ , ¹ RMIT University, Australia, ² CSIRO Manufacturing Flagship, Australia
[P1.167]	Multifunctional mesoporous silica nanoparticles for cancer-targeted, controlled drug delivery and imaging L.B.O. Freitas ² , L.M. Corgozinho ² , V.M. Santos ¹ , J.R. Magalhães ¹ , A.S. Leal ² , E.M.B. Sousa ^{*2} , ¹ Instituto de Ciências Exatas, Brazil, ² Centro de Desenvolvimento da Tecnologia Nuclear, Brazil
[P1.168]	Transition metal and lanthanide ion composites based on manganese thiophosphate phase E. Spodine ^{*1,2} , P. Fuentealba ^{1,2} , V. Paredes-García ^{2,3} , D. Venegas-Yazigi ^{2,4} , J. Manzur ¹ , N. Audebrand ⁵ , ¹ Universidad de Chile, Chile, ² CE DENNA, Chile, ³ Universidad Andrés Bello, Chile, ⁴ Universidad de Santiago de Chile, Chile, ⁵ Université de Rennes 1, France
[P1.169]	MOVED TO POSTER SESSION 2
[P1.170]	Synthesis of low crystallinity Mg containing b-tricalcium phosphate powders Z. Stankeviciute*, I. Grigoraviciute-Puroniene, E. Garskaite, A. Beganskiene, A. Kareiva, <i>Vilnius University, Lithuania</i>
[P1.171]	Functionalized manganese ferrite nanoparticles for adsorption of Ag(I) and Cu(II) from aqueous solutions

	M. Stoia*, C. Pacurariu, E. Muntean, L. Lupa, <i>Politehnica University of Timisoara, Romania</i>
[P1.172]	Advancing behaviors of tough polyampholyte hydrogels E. Su*, O. Okay, <i>Istanbul Technical University, Turkey</i>
[P1.173]	Proteomic analysis as a biocompatibility predictor in hybrid sol-gel biomaterials F.J. Romero-Gavilán ¹ , N.C. Gomes ¹ , A. Sanchez ¹ , F. Elortza ^{1,3} , I. Goñi ^{1,2} , M. Gurruchaga ^{1,2} , J. Suay* ¹ , ¹ Universitat Jaume I, Spain, ² Universidad del País Vasco, Spain, ³ Center for Cooperative Research in Bioscience, Spain
[P1.174]	Superb heavy metal ions uptake capacity and adsorption mechanism of mesoporous magnesium carbonate P. Erenbo, R. Sun*, O. Cheung, M. Stromme, <i>Uppsala University, Sweden</i>
[P1.175]	Preparation of cellulose/polymer composite beads using ionic liquid T. Suzuki*, Y. Ihara, H. Minami, <i>Kobe University, Japan</i>
[P1.176]	Microstructure modification of carbon-based composites for fuel cell electrodes A. Szydło* ¹ , M. Bredol ¹ , S. Fricke ² , I. Radev ² , V. Peinecke ² , ¹ Münster University of Applied Sciences, Germany, ² The Fuel Cell Research Center ZBT GmbH, Germany
[P1.177]	Development and characterization of polydopamine coating on novel silicate bioactive glass and steel substrates R. Tejido-Rastrilla* ^{1,2} , R. Detsch ² , A.R. Boccaccini ² , G. Baldi ¹ , ¹ Centro Ricerche Colorobbia, Italy, ² University of Erlangen-Nuremberg, Germany
[P1.178]	Bio-inspired artificial asymmetric single nanochannels Y. Tian, <i>Chinese Academy of Sciences, China</i>
[P1.179]	Hybrid materials based on natural rubber derived oligomers grafted to different inorganic supports. Application as antibacterial surfaces T.N. Tran*, A. Nourry, P. Pasetto, G. Brotons, <i>Universite du Maine, France</i>
[P1.180]	Efficient synthesis of ZnO nanoparticles in glycerol-urea L.A.A. Estrada, R. Bacani, T.B.F. Moraes, M.F.R.A. Schimidt, E.R. Triboni*, <i>University of São Paulo, Brazil</i>
[P1.181]	Effects of collagen nanofibrils orientation and stiffness on smooth muscle cell phenotype modulation Y.N. Zeng ¹ , Y.L. Kang ¹ , L.R. Rau ¹ , S.W. Tsai* ^{1,2} , ¹ Chang Gung University, Taiwan, ² Chang Gung Memorial Hospital, Taiwan
[P1.182]	Photo-induced thermal-responsive nanogels for controlled drug release W-B. Tsai*, R. Chang, <i>National Taiwan University, Taiwan</i>
[P1.183]	Thermal release of carbon-hydrides from porous Li₂ZrO₃ and Li₄SiO₄ exposed in air at room temperature B. Tsuchiya* ¹ , S. Yamaguchi ² , Y. Tomioka ² , S. Nagata ³ , T. Sugiyama ³ , K. Tokunaga ⁴ , T. Ichikawa ² , Y. Kojima ² , ¹ Meijo University, Japan, ² Hiroshima University, Japan, ³ Tohoku University, Japan, ⁴ Kyushu University, Japan
[P1.184]	Amine modified mesoporous magnesium carbonate for rate controlled drug delivery M. Vall*, P. Zhang, O. Cheung, M. Strømme, <i>Uppsala University, Sweden</i>
[P1.185]	Adsorption of caesium on porous silica gel modified by phosphotungstic acid K. Seaton, I. Little, C. Tate, A. Vasiliev*, <i>East Tennessee State University, USA</i>
[P1.186]	Cryochemical synthesis, antibacterial activity and toxicity of dioxidine superfine powder and its hybrid composition with Ag nanoparticles O.I. Vernaya*, V.P. Shabatin, T.P. Yudina, V.S. Danilov, A.M. Semenov, T.I. Shabatina, M.Y. Melnikov, <i>Moscow State University, Russia</i>
[P1.187]	Increasing the stability of Mg₂(dobpdc) metal-organic framework in air through solvent removal J.G. Vitillo*, S. Bordiga, <i>Università di Torino, Italy</i>
[P1.188]	Reversible water adsorption at room temperature in amine-free MOF for CO₂ capture: towards real post-combustion applications J.G. Vitillo* ¹ , A. Masala ¹ , G. Mondino ² , C. Grande ² , R. Blom ¹ , M. Manzoli ¹ , M. Marshall ³ , S. Bordiga ¹ , ¹ Università di Torino, Italy, ² SINTEF Materials and Chemistry, Norway, ³ Monash University, Australia
[P1.189]	Carbon nanostructures synthesized by calcination of organic-molecule intercalated taeniolite layered silicates; X-ray diffraction and Raman scattering studies N. Wada*, T. Maezumi, <i>Toyo University, Japan</i>

[P1.190]	Nanoformulation of poorly water-soluble drugs with aid of branched polymers U. Wais* ^{1,2} , T. He ³ , H. Zhang ¹ , A. Jackson ² , ¹ University of Liverpool, UK, ² Institute of Chemical and Engineering Science, Singapore, ³ Heifei University of Technology, China
[P1.191]	Directed differentiation of pluripotent stem cells into insulin-producing islets in a macroporous hydrogel system: An in-vitro study W.Y. Leong ¹ , X.Y. Ho ¹ , Y. Peck ¹ , C.M. Wang ^{1,2} , D.A. Wang* ¹ , ¹ Nanyang Technological University, Singapore, ² University of Macau, China
[P1.192]	Selective pore filling in bimodal porous carbon: Comparison of different guest species C. Weinberger*, M. Tiemann, University of Paderborn, Germany
[P1.193]	Controllable ions transportation in confined regions L. Wen*, L. Jiang, Chinese Academy of Sciences, China
[P1.194]	Synthesis and formation mechanism of hollow porous ZnO microspheres without cracked opening K. Woo*, T. Le, Korea Institute of Science and Technology, Republic of Korea
[P1.195]	The microstructure and mechanical properties of low carbon steel with nanoscale grains J.Y. Tian ^{1,2} , G. Xu* ¹ , L. Wang ² , M. Zhu ¹ , ¹ Wuhan University of Science and Technology, China, ² BaoSteel Group, China
[P1.196]	Chemistry of silsesquioxane oligomers - The role of cyclic oligomers in the condensation process for the formation of silsesquioxane polymers F. Yagihashi*, M. Igarashi, K. Sato, S. Shimada, National Institute of Advanced Industrial Science and Technology, Japan
[P1.197]	Structure and properties of Lyocell fiber reinforced poly(lactic acid) composites prepared by injection moulding process M.M. Yu*, Z. Ge, H.H. Zhang, H.L. Shao, Donghua University, China
[P1.198]	Lyocell fiber and cotton fiber used for reinforcing poly (lactic acid) composites by injection moulding process M.M. Yu*, Z. Ge, H.H. Zhang, H.L. Shao, Donghua University, China
[P1.199]	Vanadium pentoxide / carbide-derived carbon core-shell particles for high performance electrochemical energy storage M. Zeiger* ^{1,2} , T. Ariyanto ³ , B. Krüner ^{1,2} , N.J. Peter ⁴ , S. Fleischmann ² , B.J.M. Etzold ^{3,5} , V. Presser ^{1,2} , ¹ INM - Leibniz Institute for New Materials, Germany, ² Saarland University, Germany, ³ Friedrich-Alexander Universität Erlangen-Nürnberg, Germany, ⁴ Max-Planck Institut für Eisenforschung GmbH, Germany, ⁵ Technische Universität Darmstadt, Germany
[P1.200]	Micro-nanostructures of photoelectrodes for photoelectrochemical water splitting P. Zhang*, L. Gao, X.F. Song, Shanghai Jiao Tong University, China
[P1.201]	Functional nanostructured materials from cellulose derivatives K. Zhang, Georg-August-Universität Göttingen, Germany
[P1.202]	Hyperbranched polymeric based drug delivery platform for aptamer targeted theranostics against breast cancer Y.M. Zhao*, Z.H. Houston, K.J. Thurecht, The University of Queensland, Australia
[P1.203]	Synthesis of magnetic mesoporous carbon materials as potential sorbents for NSAIDs M. Ziegler-Borowska*, D. Chelminiak-Dudkiewicz, A. Sikora, A. Ilnicka, P. Rybczynski, A. Zielinska, J.P. Lukaszewicz, A. Kaczmarek-Kedziera, Nicolaus Copernicus University in Torun, Poland
[P1.204]	Magnetic nanoparticles coated with modified chitosan and starch for HSA immobilization M. Ziegler-Borowska*, D. Chelminiak-Dudkiewicz, A. Sikora, P. Wesolowski, K. Wegrzynowska-Drzymalska, Nicolaus Copernicus University in Torun, Poland
[P1.205]	Cytosolic entry of siRNA and protein is favoured by programming an acidic pH disassembly function to the delivery system G. Zuber, CNRS- Université de Strasbourg, France
[P1.206]	Tailor-made arrays of silica nanochannels N. Zucchetto*, D. Brühwiler, Zurich University of Applied Sciences, Switzerland
[P1.207]	Bio inspired synthesis of transition metal sulfide catalysts for hydrotreating reactions R. Munirathinam, G. Pirngruber, D. Laurenti, D. Uzio*, IFPEN, France
[P1.208]	Synthesis and in vitro studies of nanozeolite as hemostatic agents for treatment of traumatic hemorrhage J.B. Laurenti*, G. Zazeri, A.P.R. Povinelli, V. Litrenta, J.G. Nery, Universidade Estadual Paulista "Julio de Mesquita Filho" Unesp/Ibilce, Brazil

[P1.209]	Continuous production of hybrid bio-nanomaterials by microchannel emulsification in a microfluidic platform V. Sebastian ¹ , A. Larrea ¹ , E. Luque-Michel ² , M. Arruebo ¹ , M.J. Blanco-Prieto ² , J. Santamaria* ¹ , ¹ University of Zaragoza, Spain, ² UNiversity of Navarra, Spain
[P1.210]	Polyethylene glycol coated magnetic iron oxide nanoparticles for applications in modern biotechnology J. Kuhn* ¹ , P.O. Bagnaninchi ² , H.H.P. Yiu ¹ , ¹ Heriot-Watt University, UK, ² University of Edinburgh, UK
[P1.211]	MOVED TO POSTER SESSION 3
[P1.212]	Stellated Au/Pd nanostructures as refractive-index based sensors A.F. Smith* ¹ , R.G. Weiner ² , S.M. Harvey ² , S.E. Skrabalak ² , ¹ NAVSEA Crane, USA, ² Indiana University, USA
[P1.213]	Cutaneous drug delivery using dissolving microneedle arrayed patch T.H. Kim*, H.K. Kim, J.D. Kim, B.Y. Lee, N.K. Jang, <i>Seoul, Republic of Korea</i>
[P1.214]	Preparation of UV-curable and alkali-soluble polymer coating agent C.W. Lee, <i>Hanbat National University, Republic of Korea</i>
[P1.215]	Chemically doped three-dimensional porous graphene monoliths for high-performance flexible field emitters H.J. Jeong ¹ , H.S. Lee ² , M. Park ³ , G-W. Lee* ¹ , ¹ Korea Electrotechnology Research Insititute, Republic of Korea, ² Dong-A University, Republic of Korea, ³ Korea Institute of Science and Technology, Republic of Korea
[P1.216]	Modification of the Ti15Mo alloy surface through TiO₂ nanotubes growth - in vitro study A.P.R. Alves Claro* ¹ , J.A.M. Chavez ¹ , A.L.R. Rangel ¹ , A.L.A. Escada ¹ , R.T. Konatu ¹ , A.D. Rodrigues ³ , K.C. Popat ² ¹ UNESP, Brazil, ² Colorado State University, USA, ³ UFSCar, Brazil
[P3.111]	Improvement of interfacial adhesion of carbon fiber/thermoplastic composite by fiber coating S.G. Lee*, J.S. Won, J.H. Park, S.H. Kang, <i>Chungnam National University, Republic of Korea</i>
[P3.007]	Multilayered PVC/CNTs nanocomposites for EMI sheilding A. Aljaafari*, S. Ibrahim, M. Abu-Abdeen, <i>King Faial University, Saudi Arabia</i>

Poster Session 2

Tuesday, 7 March 2017, 10:20-11:20 & 18:00-19:30

[P2.001]	Thermoelectrical properties of Cs doped BiCuSeO as promising oxide materials for thermoelectric energy converter A.A. Achour* ¹ , Z.H. Huang ¹ , K.C. Chen ² , M.R. Reece ² , ¹ Cranfield University, UK, ² University of London, UK
[P2.002]	Dialing in the ratio of covalent and coordination cross-links in self-healing hydrogels A. Andersen*, M. Krosggaard, H. Birkedal, <i>Aarhus University, Denmark</i>
[P2.003]	Catalytic performance of a new 1D Cu(II) coordination polymer {Cu(NO₃)(H₂O)}(HTae)(4,4'-Bpy) E.S. Larrea ¹ , R. Fernández de Luis ² , M. Iglesias ³ , M.I. Arriortua* ^{1,2} , ¹ Universidad del País Vasco, Spain, ² BCMaterials (Basque Center for Materials, Applications & Nanostructures), Spain, ³ Instituto de Ciencia de Materiales de Madrid-CSIC, Spain
[P2.004]	New highly luminescent mixed coordination solid based on terbium (III) ion G. Arroyos*, R. C. G. Frem, J. B. S. Flor, L. F. B. Bim, M. A. Cebim, <i>UNESP, Brazil</i>
[P2.005]	Novel functional polymers with tunable UCST behavior in alcohol and water/alcohol mixtures A. Asadujjaman* ¹ , V. Ahmadi ¹ , M. Yalcin ² , N. ten Brummelhuis ² , A. Bertin ^{1,3} , ¹ Federal Institute for Materials Research and Testing (BAM), Germany, ² Humboldt-Universität zu Berlin, Germany, ³ Freie Universität Berlin, Germany
[P2.006]	Switching of nanoparticles' fluorescence between "ON" and "OFF" states by a thermoresponsive polymeric layer A. Asadujjaman* ¹ , S. Wagner ¹ , K. Rurack ¹ , A. Bertin ^{1,2} , ¹ Federal Institute for Materials Research and Testing (BAM), Germany, ² Freie Universität Berlin, Germany
[P2.007]	Silver nanoparticles synthesis in situ Langmuir from hydrophobic metalorganic precursor D.R. Assis*, V.N. Ueyama, C.C. Santos, R.F.C. Marques, M. Jafelici, M.R. Davolos, <i>Institute of Chemistry, Brazil</i>
[P2.008]	Evaluation of magnetic nanoparticles as support for lipase immobilization C.O. Rocha, D.R. Assis*, M. Jafelici Jr, A.V. Paula, R.F.C. Marques, <i>Institute of Chemistry - UNESP, Brazil</i>
[P2.009]	Self-assembly of luminescent lead clusters confined in Zeolite A W. Baekelant*, M.S. Aghakhani, E. Coutino-Gonzalez, K. Kennes, D. Jonckheere, E. Fron, D. Grandjean, P. Lievens, M.B.J. Roefsaers, J. Hofkens, <i>KU Leuven, Belgium</i>
[P2.010]	Metal-Organic frameworks as electroluminescence active material A.P. Costa ^{1,2} , V. André ³ , R. Ballesteros-Garrido ¹ , P. Atienzar ² , M. Alvaro ⁴ , M.T. Duarte ³ , H. Garcia ^{2,4} , C.

	Baleizão* ¹ , ¹ Instituto Superior Técnico, Portugal, ² Universidad Politécnica de Valencia, Spain, ³ Instituto Superior Técnico, Portugal, ⁴ Universidad Politécnica de Valencia, Spain
[P2.011]	Novel one-pot hierarchically porous catalyst coating for exhaust air cleansing T. Barakat*, B-L. Su, <i>University of Namur, Belgium</i>
[P2.012]	Temperature-dependent photoluminescence study of [Pb(bdc)]_n (bdc = 1,4-benzenedicarboxylate) coordination polymer: A new precursor for the preparation of PbO nanoparticles C.D.A.E.S. Barbosa* ¹ , G.R.S. Andrade ¹ , A.B.S. Santos ³ , P.L. Guzzo ² , R.A.S. Ferreira ⁵ , M.O. Rodrigues ⁴ , S.A. Junior ² , R.O. Freire ¹ , L.D. Carlos ⁵ , ¹ University Federal of Sergipe, Brazil, ² University Federal of Pernambuco, Brazil, ³ University Federal of Santa Catarina, Brazil, ⁴ University of Brasília, Brazil, ⁵ University of Aveiro, Portugal
[P2.013]	ZnO NP synthesis by controlled precipitation: Photocatalytic activity M. Medeiros Machado, S. Goulart, D. Ferreira Niero, A.M. Bernardin*, <i>Universidade do Extremo Sul Catarinense, Brazil</i>
[P2.014]	EPR Investigation of the photolysis and thermolysis of wall-functionalized hybrid silicas containing diazene radical precursors E. Besson*, F. Vibert, S.R.A. Marque, E. Bloch, S. Queyroy, M.P. Bertrand, S. Gastaldi, <i>Aix Marseille Universite, France</i>
[P2.015]	Nano-photostructurable hybrid sol-gel doped with magnetic nanoparticles for magneto-optical devices C. Bidaud* ^{1,2} , E. Gamet ² , D. Jamon ² , F. Royer ² , S. Neveu ³ , O. Soppera ¹ , D. Berling ¹ , ¹ Université de Haute Alsace, France, ² Université Jean Monnet, France, ³ Université Pierre et Marie Curie, France
[P2.016]	One-pot synthesis of monodisperse organosilica particles through a waterborne sol-gel process and their porous structure analysis X.G. Qiao, P-Y. Dugas, E. Bourgeat-Lami*, <i>Université Claude Bernard Lyon 1, France</i>
[P2.017]	Conjugated polymer brushes, application to hole selective layer for photovoltaic H. Awada ¹ , C. Lartigau-Dagron ¹ , L. Billon ¹ , S. Chambon ² , A. Bousquet* ¹ , ¹ University of Pau, France, ² University of Bordeaux, France
[P2.018]	Multifunctional silica-polysaccharides bionanocomposites: from preparation to application T.M. Budnyak* ¹ , V.A. Tertykh ¹ , M. Blachnio ² , A. Derylo-Marczewska ² , ¹ Chuiko Institute of Surface Chemistry of National Academy of Sciences, Ukraine, ² Maria Curie-Skłodowska University, Poland
[P2.019]	Mesoporous silica grafted with phosphonic acid derivatives as sorbents for uranium(VI) sorption T.M. Budnyak* ¹ , I.V. Pylypchuk ¹ , A.V. Strizhak ² , A. Gladysz-Plaska ³ , D. Sternik ³ , V.A. Tertykh ¹ , I.V. Komarov ² , M. Majdan ¹ , ¹ Chuiko Institute of Surface Chemistry of National Academy of Sciences, Ukraine, ² Taras Shevchenko National University, Ukraine, ³ Maria Curie-Skłodowska University, Poland
[P2.020]	pH- and temperature-responsive polymers derived from Polysuccinimide J. Vega-Chacón, A.C. T. Tognolo, R.F. C. Marques*, M. Jafelici Jr., <i>Institute of Chemistry, São Paulo State University (UNESP), Brazil</i>
[P2.021]	Compressible and maleable 3-dimensional nanofibrous materials for treatment of bone defects - production and characterization S. Cakmak*, A. Cengiz, M. Gumusderelioglu, <i>Hacettepe University, Turkey</i>
[P2.022]	A joint experimental and computational study of a sixfold mof demonstrating flexible properties C.A. MacAnally ¹ , C. Campbell* ¹ , A.J. Fletcher ¹ , R.B. Gomes ² , M. Jorge ¹ , ¹ University of Strathclyde, UK, ² University of Aveiro, Portugal
[P2.023]	Synthesis and design of Ti and Zr based metal-organic frameworks for the use of visible light R. Navarro Amador, M. Carboni*, D. Meyer, <i>CEA French Atomic Energy Commission, France</i>
[P2.024]	Formation of MOFs from a multimetallic waste solution to develop a new battery recycling process E. Perez, M.L. Andre, L. Escobar, R. Navarro Amador, M. Carboni*, D. Meyer, <i>CEA French Atomic Energy Commission, France</i>
[P2.025]	Evidence of presence of iPP chains within SBA-15 pores in nanocomposites based on iPP and SBA-15 and their ultimate properties R. Barranco-García ¹ , J.M. López-Majada ¹ , V. Lorenzo ² , J.M. Gómez-Elvira ¹ , E. Pérez ¹ , M.L. Cerrada* ¹ , ¹ Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Spain, ² Universidad Politécnica de Madrid, Spain
[P2.026]	Lightweight nanocomposites based on iPP and Al nanoparticles: shielding response to electromagnetic interference (EMI) and rheological behavior E. Blázquez-Blázquez ¹ , J. Arranz-Andrés ¹ , J. Ressaia ² , E.M. Vallés ² , P. Marín ³ , A.M. Aragón ³ , E. Pérez ¹ , M.L. Cerrada* ¹ , ¹ Instituto de Ciencia y Tecnología de Polímeros (ICTP-CSIC), Spain, ² Planta Piloto de Ingeniería Química- PLAPIQUI (UNS-CONICET), Argentina, ³ Instituto de Magnetismo Aplicado (UCM-ADIF-CSIC), Spain
[P2.027]	Mesoporous silica glyconanoparticles for theranostics C.I.C. Crucho*, C. Baleizão, J.P.S. Farinha, <i>Instituto Superior Técnico, Portugal</i>

[P2.028]	Characterization of collagen based epithelial sheets and their response with different cellular models A. D'Agostino*, M. Cammarota, G. Ricci, A. Stellavato, R. Maritato, F. Campitiello, A. La Gatta, M. De Rosa, C. Schiraldi, <i>Second University of Naples, Italy</i>
[P2.029]	In situ synthesis of titanium-based nanocomposites A.R.M. Dalod* ¹ , L. Henriksen ² , T. Grande ¹ , M-A. Einarsrud ¹ , ¹ Norwegian University of Science and Technology, Norway, ² poLight AS, Norway
[P2.030]	Biohybrid nanoparticles prepared by a non-emulsion method and application as nanoadsorbents in water remediation A.L. Daniel-da-Silva*, S. Soares, T. Trindade, <i>University of Aveiro, Portugal</i>
[P2.031]	Synthesis and characterisation of ultra-small silicon nanoparticles for in vivo imaging of cancerous tumours J. Ddungu* ^{1,2} , A. Faramus ^{1,2} , L. De Cola ^{1,2} , ¹ Karlsruhe Institute of Technology, Germany, ² University of Strasbourg, France
[P2.032]	Ficus platyphylla and vitellaria paradoxa tannins analysis and performances in particleboard applications F.D. Pagoré* ¹ , R. Ntenga ¹ , A. Pizzi ² , A. Béakou ³ , L-M.A. Ohandja ¹ , ¹ Université de Douala, Cameroon, ² Université de Nancy, France, ³ Institut Pascal, France
[P2.033]	Effect of the polymeric phase in the structure and properties of anticorrosive silica-PMMA hybrid coatings F.C. dos Santos*, M.C. Uvida, S.H. Pulcinelli, C.V. Santilli, P. Hammer, <i>Institute of Chemistry-UNESP, Brazil</i>
[P2.034]	Modeling investigations on differently shaped silica nanoparticles in methacrylate polymer matrices: Aspects for dental composite materials M. Duderstaedt*, A.M. Schneider, P. Behrens, <i>Leibniz University Hannover, Germany</i>
[P2.035]	Design and characterisation of novel biosynthetic Caf1-based hydrogels G. Dura*, H. Waller, J.H. Lakey, D.A. Fulton, <i>Newcastle University, UK</i>
[P2.036]	Heterocoagulation for the rational design of bifunctional catalysts: Development of Pt⁰/zeolite-alumina catalysts O. Ben Moussa, J. Blanchard, O. Durupthy*, <i>UPMC Sorbonne Universités, France</i>
[P2.037]	Exceptionally ductile and tough artificial nacre A. Eckert* ^{1,2} , T. Rudolph ¹ , T. Mang ¹ , A. Walther ¹ , ¹ DWI-Leibniz-Institute for Interactive Materials, Germany, ² IAP-Institute for Applied Polymer Chemistry, Germany
[P2.038]	Direct electrical detection of gas-phase analytes using organic semiconductors having sensing side-groups Y. Gerchikov, P. Kumar, E. Borzin, N. Tessler, Y. Eichen*, <i>Technion - Israel Institute of Technology, Israel</i>
[P2.039]	CaLB catalyzed conversion of ε-caprolactone in aqueous medium - immobilization of CaLB to microgels S. Engel*, H. Höck, M. Bocola, H. Keul, U. Schwaneberg, M. Möller, <i>RWTH Aachen University, Germany</i>
[P2.040]	Functionalization of graphene oxide for gas sensing and cation trapping M. Valt ¹ , A. Gaiardo ^{1,2} , B. Fabbri* ¹ , S. Gherardi ¹ , N. Landini ¹ , C. Malagù ¹ , G. Zonta ¹ , P. Bellutti ² , V. Guidi ¹ , ¹ University of Ferrara, Italy, ² Bruno Kessler Foundation, Italy
[P2.041]	Supercritical CO₂ deposition of nickel nanoparticles into the pores of nanopatterned porous BaTiO₃ thin films P. Ferreira* ¹ , A. Castro ¹ , J. Morère ² , A. Cabanas ² , L. Ferreira ³ , M. Godinho ³ , P. Vilarinho ¹ , ¹ University of Aveiro, Portugal, ² Universidad Complutense de Madrid, Spain, ³ Universidade de Lisboa, Portugal
[P2.042]	Thin amorphous hydrogenated carbon (a-C:H) films to refine and functionalize common high-density polyethylene: Surface characterization and substrate influence compared to Si (100) C.B. Fischer*, A. Catena, S. Wehner, <i>University of Koblenz-Landau, Germany</i>
[P2.043]	Synthesis and gas separation properties of ZIF-8 membranes by conversion of ZnO layer J. Kim* ¹ , J. Lee ¹ , H. Shin ¹ , S.S. Kim ¹ , ¹ Kyung Hee University, Republic of Korea, ² Kangwon National University, Republic of Korea
[P2.044]	Synthesis of Co/Zn-ZIF crystals and their catalytic activity for functionalized oxygen reduction reactions after carbonization J. Kim* ¹ , S. Bae ¹ , S.S. Kim ² , ¹ Kyung Hee University, Republic of Korea, ² Kangwon National University, Republic of Korea
[P2.045]	Ink jet printed silver nanoparticle patterns for metal assisted etching of silicon S. Hoshian, C. Gaspar, T. Vasara, F. Jahangiri, V.P. Jokinen, S. Franssila*, <i>Aalto University, Finland</i>
[P2.046]	Nanocomposites with unique properties obtained by covalent bonding of cork and silica aerogel A.R. Garcia* ^{1,2} , M.F. Júlio ¹ , L.M. Ilharco ¹ , ¹ Instituto Superior Técnico, Portugal, ² Universidade do Algarve, Portugal
[P2.047]	Third order non-linear optical parameters in SiO₂/CTAB:DR1 films J.A. Garcia-Macedo*, E.G. Rodriguez-Rangel, <i>National University of Mexico, Mexico</i>
[P2.048]	Unsupported cobalt nanoparticles as efficient catalysts for the solvent-free acceptorless dehydrogenation of alcohols : Investigation of the surface ligands

	A. Viola, J. Peron, L. Sicard, J-Y. Piquemal, M. Giraud*, <i>Université Paris Diderot, France</i>
[P2.049]	Chemically reactive protocells: a novel bottom-up approach to the generation of prototissues P. Gobbo*, A.J. Patil, M. Li, S. Mann, <i>The University of Bristol, UK</i>
[P2.050]	Photo-induced sol-gel hybrid coatings as a tool to impart multifunctionality to flexible organic photovoltaics at ambient temperature G. Griffini* ¹ , D. Pintossi ² , A. Colombo ³ , F. Bella ⁴ , M. Välimäki ⁴ , K-L. Väisänen ⁴ , J. Hast ¹ , C. Gerbaldi ³ , C. Dragonetti ² , S. Turri ¹ , ¹ <i>Politecnico di Milano, Italy</i> , ² <i>Università Statale di Milano, Italy</i> , ³ <i>Politecnico di Torino, Italy</i> , ⁴ <i>VTT Technical Research Centre of Finland, Finland</i>
[P2.051]	"Black titania" coatings composed of sol-gel imprinted Mie resonators arrays T. Bottein, T. Wood, T. David, J.B. Claude, L. Favre, I. Berbezier, A. Ronda, M. Abbarchi, D. Grosso*, <i>IM2NP - University Aix Marseille, France</i>
[P2.052]	Sensitizing organic polymers with infrared light using up-converting nanocrystals J. Grzelak* ¹ , A. Bednarkiewicz ² , D. Piatkowski ¹ , S. Mackowski ¹ , ¹ <i>Nicolaus Copernicus University, Poland</i> , ² <i>Polish Academy of Sciences, Poland</i>
[P2.053]	Protective transparent coatings composed of cellulose nanofibers cross-linked with borate ions V. Guccini* ^{1,2} , D. Laurencin ³ , F. Ansari ^{4,2} , J. Sort ⁵ , N. Hedin ¹ , L.A. Berglund ^{4,2} , G. Salazar-Alvarez ^{1,2} , ¹ <i>Stockholm University, Sweden</i> , ² <i>Wallenberg Wood Science Center, Sweden</i> , ³ <i>Institut Charles Gerhardt de Montpellier, France</i> , ⁴ <i>Royal Institute of Technology, Sweden</i> , ⁵ <i>Universitat Autònoma de Barcelona, Spain</i>
[P2.054]	Hydrothermal synthesis parameters effect on Ni and/or Co carbonate hydroxide based bi-structure nanocomposites: Electrochemical properties O. Guellati* ^{1,4} , A. Harat ¹ , D. Momodu ³ , J. Dangbegnon ³ , D. Begin ⁴ , C. Pham-Huu ⁴ , N. Manyala ³ , M. Guerioune ¹ , ¹ <i>Badji Mokhtar University of Annaba, Algeria</i> , ² <i>Mohamed Cherif Messadia University of Souk-Ahras, Algeria</i> , ³ <i>University of Pretoria, South Africa</i> , ⁴ <i>ICPEES Institut - ECPM - CNRS - Uds, France</i>
[P2.055]	Structural properties of high performance anticorrosive silica-epoxy hybrid coatings R.F. Oblitas Torrico, S.V. Harb*, A. Trentin, C.V. Santilli, P. Hammer, <i>São Paulo State University - UNESP, Brazil</i>
[P2.056]	Highly stable interfaces for the immobilization of molecular catalysts on metal oxide materials - an in-situ spectroelectrochemical study T.G.A.A. Harris*, R. Götz, P. Kielb, <i>Technische Universität Berlin, Germany</i>
[P2.057]	Bio-inspiration in nanomaterials design: Green synthesis method of nano-structured oxides L. Hdidou* ¹ , M. Larzek ¹ , H. Hannach ² , B. Manoun ³ , A. Barakat ⁴ , ¹ <i>Center for Advanced Materials (CAM), Mohammed VI Polytechnic University, Morocco</i> , ² <i>Mohammed VI Polytechnic University, Morocco</i> , ³ <i>Hassan I University, Morocco</i> , ⁴ <i>Université de Montpellier, France</i>
[P2.058]	Structure-property relationships in hybrid polyurethane foams reinforced by POSS E. Hebda*, A. Bukowczan, J. Ozimek, S. Michalowski, K. Pielichowski, <i>Cracow University of Technology, Poland</i>
[P2.059]	Magnetic blood purification M. Lattuada ² , Q. Ren ¹ , M. Galli ¹ , I.K. Herrmann* ¹ , ¹ <i>Swiss Federal Laboratories for Materials Science and Technology (Empa), Switzerland</i> , ² <i>Adolphe Merkle Institute, Switzerland</i>
[P2.060]	Epoxide-containing nanodots as an enzyme-immobilized platform for biosensing P-Y. Lin ¹ , S. Hsieh* ^{2,1} , ¹ <i>National Sun Yat-Sen University, Taiwan</i> , ² <i>Kaohsiung Medical University, Taiwan</i>
[P2.061]	Adsorbing the 3d-transition metal atoms: An effective strategy to engineer the band structure of zigzag SiC nanoribbons H. Li, G. Yu, W. Chen, X. Huang*, <i>Jilin University, China</i>
[P2.062]	Sol-Gel membrane modification for enhanced photocatalytic activity R.M. Huertas* ¹ , M.C. Fraga ¹ , J.G. Crespo ² , V.J. Pereira ¹ , ¹ <i>IBET, Portugal</i> , ² <i>NOVA, Portugal</i>
[P2.063]	Synthesis of multi-hierarchical carbon monoliths via lower critical solution transition behavior in organic-organic self-assembly K. Hur, <i>Korea Institute of Science and Technology, Republic of Korea</i>
[P2.064]	Structure analysis and conductivity mechanism of Mn Doped SmFeO3 S. Husain*, A.O.A. Keelnai, <i>Aligarh Muslim University, India</i>
[P2.065]	Structural analysis and investigation of optical parameters of Zinc doped LaFeO3 S. Husain*, S. Manzoor, <i>Aligarh Muslim University, India</i>
[P2.066]	Structured silicon heterojunctions for optoelectronic devices and sensing M. Ivanda* ¹ , V. Derek ¹ , L. Mikac ¹ , H. Gebavi ¹ , M. Marcus ¹ , M. Ristic ¹ , E-D. Glowacki ² , S-N. Sariciftci ² , ¹ <i>Ruder Boskovic Institute, Croatia</i> , ² <i>Johannes Kepler University Linz, Austria</i>
[P2.067]	Core-shell nanoparticles of nanoporous silica and nanoporous hybrid organosilica M. Jahns*, A. Satalov, P. Behrens, <i>Leibniz Universität Hannover, Germany</i>

[P2.068]	Fiber-based 3D microarchitectures from cross-linked gelatin for tissue engineering M. Järvekülg* ^{1,2} , K. Siimon ² , V. Jaks ² , ¹ Riga Technical University, Latvia, ² University of Tartu, Estonia
[P2.069]	Hierarchically structured metal-fortified peptide films inspired by the mussel byssus F. Jehle*, M.J. Harrington, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[P2.070]	Glycosaminoglycan-based hybrid hydrogel encapsulated with polyelectrolyte complex nanoparticles for endogenous stem cell regulation in central nervous system regeneration W.H. Jian*, T.W. Wang, <i>National Tsing Hua University, Taiwan</i>
[P2.071]	Promising Inorganic/Organic Composite-based Efficient Thermoelectric Material: SnSe Nanosheet/PEDOT:PSS Composite Films H. Ju, <i>Chung-Ang university, Republic of Korea</i>
[P2.072]	Superhydrophobic hybrid silica aerogels dried at ambient pressure M.F. Júlio*, L.M. Ilharco, <i>Instituto Superior Técnico, Portugal</i>
[P2.073]	WITHDRAWN
[P2.074]	Silica, silica-gelatin hybrid and alginate aerogels as drug delivery systems – relationship between structure and function P. Veres, M. Kéri, I. Bányai, I. Lázár, I. Fábián, J. Kalmár*, <i>University of Debrecen, Hungary</i>
[P2.075]	Direct synthesis of core-shell structured NiO/NiAl₂O₄/Al₂O₃ nanofibers by wet-combustion method N. Kamboj* ^{1,2} , M. Aghayan ¹ , M.A. Rodríguez ² , I. Hussainova ^{1,3} , ¹ Tallinn University of Technology, Estonia, ² Instituto de Cerámica y Vidrio, Spain, ³ ITMO University, Russia
[P2.076]	Optical functionality of structured silica surfaces prepared by a sol-gel phase separation method T. Kangur*, V. Kiisk, A. Loot, M. Timusk, M. Järvekülg, <i>University of Tartu, Estonia</i>
[P2.077]	Functionalized porous films with size of sub-10 nm based on block copolymer self-assembly J.H. Kim, J.K. Lee, H.C. Im, S.H. Kim*, <i>Inha University, Republic of Korea</i>
[P2.078]	Molecular atomic layer deposited (MALD) hybrid organic-inorganic dielectric for 2D MoS₂ Field Effect Transistors (FETs) L. Cheng, J. Lee, A. Ravichandran, A.T. Lucero, J. Kim*, <i>The University of Texas at Dallas, USA</i>
[P2.079]	Highly transparent and scaleable omniphobic coating on glass G. Paink ¹ , S. Sunny ² , J. Aizenberg ² , P. Kim* ¹ , ¹ SLIPS Technologies Inc., USA, ² Harvard University, USA
[P2.080]	Directing in vivo macrophage polarization to anti-inflammatory M2 type by IL-4-loaded large pore mesoporous silica nanoparticles D. Kwon ¹ , B.G. Cha ² , Y. Cho ¹ , J. Min ¹ , E.B. Park ¹ , S.J. Kang ¹ , J. Kim* ² , ¹ Korea Advanced Institute of Science and Technology, Republic of Korea, ² Sungkyunkwan University (SKKU), Republic of Korea
[P2.081]	Mechanically-enhanced hierarchically porous scaffold composed of mesoporous silica for host immune cell recruitment Y. Choi, J. Kim*, <i>Sungkyunkwan University, Republic of Korea</i>
[P2.082]	Creation of spherical aggregates of Pd nanoparticles on the surface of POSS-modified MWNTs I.S. Hwang ¹ , S.H. Lee ² , K.Y. Kim ³ , K.M. Kim* ¹ , ¹ Korea National University of Transportation, Republic of Korea, ² CHA Stem Cell Institute, Republic of Korea, ³ Korea Institute of Industrial Technology, Republic of Korea
[P2.083]	Growth of pure SnO nano-platelets by vapor transport method K-C. Kim, <i>Mokwon University, Republic of Korea</i>
[P2.084]	Core-shell structured BN-MWCNT/PPS composite via particle coating method for high thermal conductivity with electrical insulating K. Kim, <i>Chung-Ang Univ., Republic of Korea</i>
[P2.085]	Stimuli-responsive hydrogels using an interpenetrating chitosan network for controlled drug delivery H.J. Kim, <i>Chosun Univeristy, Republic of Korea</i>
[P2.086]	Influence of different polymer templates on the porosity and photoelectrochemical performance of mesoporous ZnFe₂O₄ thin films K. Kirchberg*, P. Timmer, J. Keppner, R. Marschall, <i>Justus Liebig University Giessen, Germany</i>
[P2.087]	Adsorption and thermally activated metalation of carboxy-functionalized porphyrins on MgO nanoparticles F. Kollhoff* ¹ , J. Schneider ² , T. Berger ² , O. Diwald ² , J. Libuda ¹ , ¹ University of Erlangen-Nürnberg, Germany, ² University of Salzburg, Austria
[P2.088]	Open cellular macroporous ceramics from emulsion templated polymer composites P. Krajnc* ¹ , R. Liska ² , A. Koler ¹ , M. Turnšek ¹ , ¹ University of Maribor, Slovenia, ² Technical University of Vienna, Austria

[P2.089]	Low modified hyaluronan hydrogels as scaffolds for cartilage repair A. La Gatta*, G. Ricci, M. Cammarota, A. Stellavato, R. Filosa, A. Papa, A. D'Agostino, C. Catalano, M. De Rosa, C. Schiraldi, <i>Second University of Naples, Italy</i>
[P2.090]	Catalytic reforming of gasification tars with Bi- and trimetallic catalysts optimized with organosilane precursors V. Claude ¹ , C. Courson ² , S.D. Lambert* ¹ , ¹ University of Liege, Belgium, ² University of Strasbourg, France
[P2.091]	Specific surface engineering of silver nanocubes to induce plasmonic vesicles A. Lapresta-Fernandez* ^{1,2} , Z.P. Güven ¹ , P.J. Silva ¹ , F. Stellacci ¹ , ¹ École Polytechnique Fédérale de Lausanne, Switzerland, ² University of Granada, Spain
[P2.092]	Stability study of MOF@IL composite materials E.S. Larrea* ¹ , R. Fernández de Luis ² , A. Fidalgo-Marijuan ¹ , A. Martínez-Doñate ² , N. González-Santacruz ² , A.C. Lopes ² , M.I. Arriortua ^{1,2} , ¹ Dpto. Mineralogía y Petrología, Universidad del País Vasco, UPV/EHU, Spain, ² BCMaterials (Basque Center for Materials, Applications & Nanostructures), Spain
[P2.093]	Synthesis and investigation of nanoscale phase-separated morphology and electrochemical property of anion exchange polymeric membrane materials for electrochemical application J.Y. Lee* ¹ , M. Cha ^{1,2} , Y.T. Hong ¹ , ¹ Korea Research Institute of Chemical Technology, Republic of Korea, ² Han Yang University, Republic of Korea
[P2.094]	Mechanical characteristic control of polydimethylsiloxane based composite by the modified silica beads using sol-gel process E.A. Shin, C.K. Lee*, S.W. Hwang, S.B. Lee, J.K. Shim, <i>Korea Institute of Industrial Technology, Republic of Korea</i>
[P2.095]	Obtaining of cationic starch/palygorskite bionanocomposites by continuous casting L.S.F. Leite* ¹ , M.A. Piza ² , L.C. Bertolino ³ , L.H.C. Mattoso ⁴ , F.K.V. Moreira ¹ , ¹ Federal University of São Carlos, Brazil, ² Technological Federal University of Paraná, Brazil, ³ Mineral Technology Center, Brazil, ⁴ Embrapa Instrumentation, Brazil
[P2.096]	Energy transfer between aromatic amino acids of peptides/proteins and luminescent nanoparticles for biomaterials applications L.R. Lima*, J.M. Gonçalves, M.L. Moraes, E.M. Cilli, S.J.L. Ribeiro, <i>Institute of Chemistry, Brazil</i>
[P2.097]	Incorporation of cellulose nanocrystals in acrylic latex films E. Limousin*, N. Ballard, J.C. de la Cal, J.M. Asua, <i>POLYMAT, Spain</i>
[P2.098]	Functionalization of hybrid thiostannates M.S. Hvid, N. Lock*, <i>Aarhus University, Denmark</i>
[P2.099]	Cooking periodic mesoporous phenylene- and biphenylene-silicas for CO₂/CH₄ separation M.A.O. Lourenço* ¹ , M.L. Pinto ² , J. Pires ² , J.R.B. Gomes ¹ , P. Ferreira ¹ , ¹ University of Aveiro, Portugal, ² University of Lisbon, Portugal
[P2.100]	Step-wise functionalization of Mg_xZn_{1-x}O nanorods for biosensor applications Y. Chen ¹ , K. Yang ² , P.I. Reyes ² , Q. Zhang ¹ , C. Flach ¹ , R. Li ² , G. Li ² , E. Galoppini ¹ , Y. Lu* ² , R. Mendelsohn ¹ , ¹ Rutgers University, Newark, USA, ² Rutgers University, Piscataway, USA
[P2.101]	Hybrid TiO₂/DHICA-melanin materials: Novel bioinspired nanosystems for antimicrobial applications G. Vitiello, G. Luciani*, A. Pezzella, M. Varcamonti, B. Silvestri, A. Costantini, F. Branda, <i>University of Naples Federico II, Italy</i>
[P2.102]	Flexible and platinum-free counter electrodes for dye-sensitized solar cells application K. Lukaszkwicz*, M. Szindler, L.A. Dobrzanski, M. Prokopiuk vel Prokopowicz, A. Drygala, <i>Silesian University of Technology, Poland</i>
[P2.103]	Studies on MWCNT based materials as potential scaffolds for adhesion and growth of cell B.M. Maciejewska*, A. Warowicka, J. Litowczenko, <i>NanoBioMedical Centre, Adam Mickiewicz University, ul. Umultowska 85, PL-61614 Poznan, Poland</i>
[P2.104]	Synthesis and characterization of polymeric nanoparticles of poly(vinylidene fluoride) C.C. Santos, A.C. Cruz, R.D. Piazza, V.A.V. Magalhães*, R.F.C. Marques, M. Jafelicci Junior, <i>Institute of Chemistry UNESP, Brazil</i>
[P2.105]	Use of MPTS to reduction and synthesis of silver nanoparticles in the clay surface for inhibiting metal-oxidizing bacteria. V.A.V. Magalhães* ^{1,2} , E. Tinta ^{1,2} , R.D. Piazza ¹ , M. Jafelicci Junior ¹ , A.C. Massabni ¹ , R.F.C. Marques ¹ , ¹ Institute of Chemistry, Unesp, Brazil, ² Secretary of Education of São Paulo, Brazil
[P2.106]	Surface modification of flexible, ultra-thin glass based dielectrics to enhance capacitance A. Mahadevegowda*, C. Johnston, P.S. Grant, <i>University of Oxford, UK</i>

[P2.107]	Influence of surface chemistry on adsorption and confinement of drug in mesoporous silicon E. Mäkilä* ¹ , H. Kivelä ¹ , N. Shershta ² , M. Kaasalainen ¹ , E. Kukk ¹ , J. Hirvonen ² , A. Correia ² , H. Santos ² , J. Salonen ¹ , ¹ University of Turku, Finland, ² University of Helsinki, Finland
[P2.108]	Hydrolytic stabilization and chemical modification of porous silicon nanoparticles for biomedical applications E. Mäkilä* ¹ , C.F. Wang ² , O. Keinänen ² , U. Jakobsson ² , M. Kaasalainen ¹ , S. Lecommandoux ³ , K. Helariutta ² , A. Airaksinen ² , H.A. Santos ² , J. Salonen ¹ , ¹ University of Turku, Finland, ² University of Helsinki, Finland, ³ Université de Bordeaux, France
[P2.109]	Polyoxometalate-based hybrid magnetic nanocatalysts O. Makrygenni* ¹ , A. Proust ¹ , J-M. Siaugue ² , R. Villanneau ¹ , ¹ Institut Parisien de Chimie Moléculaire, France, ² Laboratoire Physicochimie des Electrolytes et Nanosystèmes Interfaciaux, France
[P2.110]	Surface modification of graphene oxide for theranostic neoplasms application J.M. Paiva, M. Jafelicci Jr., R.F.C. Marques*, São Paulo State University "Julio de Mesquita Filho, Brazil
[P2.111]	Biosensor development based on an optical fibre long period grating modified with nanoparticles thin films L. Marques*, S. Korposh, S-W. Lee, M. Clark, University of Nottingham, UK
[P2.112]	Bio-inspired photopatterning method for the production of silver nanoparticle tracks on polyimides J. Marques-Hueso* ¹ , D.E. Watson ¹ , J. Hoy-Gig Ng ¹ , M.N. Esfahani ² , R.W. Kay ² , M.P.Y. Desmulliez ¹ , ¹ Heriot-Watt University, UK, ² University of Leeds, UK
[P2.113]	Hierarchical zeolites through surfactant assisted method as environmentally friendly catalysts for Friedel-Crafts reactions A. Martins* ^{1,2} , J. Moutinho ² , N. Nunes ^{1,2} , A.P. Carvalho ¹ , ¹ Faculdade de Ciências, Universidade de Lisboa, Portugal, ² Instituto Superior de Engenharia de Lisboa, Instituto Politécnico de Lisboa, Portugal
[P2.114]	Anisotropic core-shell silica particles with complex architecture J. Maisch ¹ , F. Jarfali ¹ , T. Chasse ¹ , F. Blendinger ¹ , A. Konrad ¹ , M. Metzger ¹ , A.J. Meixner ¹ , M. Brecht ^{1,2} , L. Dähne ^{1,3} , H.A. Mayer* ¹ , ¹ University of Tübingen, Germany, ² Reutlingen University, Germany, ³ Surflay Nanotec GmbH, Germany
[P2.115]	Green synthesis of hybrid polyurethane/acrylic nanoparticles: influence of the chemical structure of the hybrids on the particle morphology and polymer final performance S. Mehravar* ¹ , N. Ballard ¹ , R. Tomovska ^{1,2} , J.M. Asua ¹ , ¹ POLYMAT, University of the Basque Country UPV/EHU, Donostia-San Sebastián, Spain, ² IKERBASQUE, Basque Foundation of Science, Bilbao, Spain
[P2.116]	Underestimated role of gelation temperature on macro- and mesoporosity in the preparation of monolithic silica R. Meinusch* ¹ , K. Hormann ³ , U. Tallarek ² , B.M. Smarsly ¹ , ¹ Justus-Liebig-Universität Giessen, Germany, ² Philipps-Universität Marburg, Germany, ³ Thermo Fisher Scientific, Germany
[P2.117]	Functionalized mesoporous silica nanoparticles as theranostic nanoplatform for optical imaging and photodynamic therapy I. Mileto*, B. Martins Estevão, L. Marchese, M. Cossi, E. Gianotti, Università del Piemonte Orientale, Italy
[P2.118]	Al-rich beta zeolite with high stability in HLW (hot liquid water) as a promising catalyst for conversion of biomass K. Mlekodaj* ¹ , P. Sazama ¹ , P. Klein ¹ , R. Pilar ¹ , V. Pashkova ¹ , V. Parvulescu ² , J. Dedeczek ¹ , ¹ J. Heyrovsky Institute of Physical Chemistry of the CAS, Czech Republic, ² University of Bucharest, Romania
[P2.119]	Synthesis of SSZ-13 zeolite with high concentration of sites for accommodation of divalent cations K. Mlekodaj* ¹ , V. Pashkova ¹ , R. Karcz ² , P. Klein ¹ , S. Sklenak ¹ , J. Dedeczek ¹ , ¹ J. Heyrovsky Institute of Physical Chemistry of the CAS, Czech Republic, ² J. Haber Institute of Catalysis and Surface Chemistry of the PAS, Poland
[P2.120]	Inkjet printable polymethylmethacrylate-PWA for photochromic applications A. Espíndola, C. Molina*, Federal University of São Paulo, Brazil
[P2.121]	Silica nanoparticles from agroindustrial waste with functional properties A.S.S. Monteiro*, S.J.L. Ribeiro, Institute of Chemistry - UNESP, Brazil
[P2.122]	Supramolecular mediated plasmonic thin films for ultrasensitive and multiplex SERS-based PAH detection V. Montes-García* ¹ , B. Gómez ² , L. García-Río ² , I. Pastoriza-Santos ¹ , J. Pérez-Juste ¹ , ¹ Universidad de Vigo, Spain, ² Universidad de Santiago de Compostela, Spain
[P2.123]	Helical MCM-41 Organosilica as Methylprednisolone corticoid carriers with controllable release V. Morales*, R-A. García-Muñoz, M. Linares, Rey Juan Carlos University, Spain
[P2.124]	New drug-structure-directing agent concept: Inherent pharmacological activity combined with templating solid and hollow-shell mesostructured silica nanoparticles V. Morales*, M. Gutierrez-Salmeron, M. Balabasquer, J. Ortiz-Bustos, A. Chocarro-Calvo, C. García-Jimenez, R.A. García-Muñoz, Rey Juan Carlos University, Spain

[P2.125]	Development of nanoparticle size and size distribution materials using dynamic light scattering and asymmetrical flow field flow fractionation methods A. Nakamura*, H. Kato, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
[P2.126]	Temperature-responsive polymer coating for harvesting biologically intact cell sheets M. Nakayama* ¹ , Y. Toyoshima ² , A. Kikuchi ² , T. Okano ¹ , ¹ <i>Tokyo Women's Medical University, Japan</i> , ² <i>Tokyo University of Science, Japan</i>
[P2.127]	Permeation study of electrolytes in organic coatings J. Nardeli*, C.S. Fugivara, A.V. Benedetti, <i>Universidade Estadual Paulista, Brazil</i>
[P2.128]	Temperature and pH-responsive microgel particles as drug carriers for capsaicin A.F. Naves* ^{2,1} , R.M.A. Santangelo ¹ , R. Merindol ² , L.H. Catalani ¹ , A. Walther ² , ¹ <i>Universidade de São Paulo, Brazil</i> , ² <i>Albert-Ludwigs-University Freiburg, Germany</i>
[P2.129]	Adsorption mechanisms of sulphur heterocycles and the influence on the adsorption kinetics of Ag-Al₂O₃ R. Neubauer* ¹ , C. Weinlaender ¹ , N. Kienzl ² , C. Hochenauer ¹ , ¹ <i>Graz University of Technology, Austria</i> , ² <i>Bioenergy2020+, Austria</i>
[P2.130]	Chitosan-based aerogel beads as reversible CO₂ adsorbents P.D. Niemeyer*, K. Ganesan, B. Milow, L. Ratke, <i>German Aerospace Center, Germany</i>
[P2.131]	Tailored stealth coating of inorganic porous nanocarriers for extremely long blood circulation <i>in vivo</i> T.J. Nissinen* ¹ , S. Näkki ¹ , H. Laakso ¹ , D. Kuciauskas ² , A. Kaupinis ² , M.I. Kettunen ¹ , M. Valius ² , O. Gröhn ¹ , V-P. Lehto ¹ , ¹ <i>University of Eastern Finland, Finland</i> , ² <i>Vilnius University, Lithuania</i>
[P2.132]	New hybrid superlattices based on silk fibroin and gold nanocrystals A. Garnier ¹ , P.A. Albouy ² , A. Courty ¹ , S. Noinville* ¹ , ¹ <i>UPMC, France</i> , ² <i>Université Paris 11, France</i>
[P2.133]	N-isopropylmethacrylamide based hybrid microgels as highly efficient and economical catalysts for reduction reactions Z.H. Farooqi*, J. Najeeb, R. Begum, <i>University of the Punjab, Pakistan</i>
[P2.134]	Evaluations of phosphate anion poisoning mechanism of new Pt based catalyst used in high temperature polymer electrolyte membrane fuel cell (HT-PEMFC) Y. Chung, S. Yang, J. Yang, Y. Kwon*, <i>Seoul National University of Science and Technology, Republic of Korea</i>
[P2.135]	Removal of Nickel and Chromium Species From Aqueous Solution Using Hybrid Materials Based on Humic Substances L. Oliveira* ¹ , K. Ciuffi ¹ , ¹ <i>Universidade de Franca, Brazil</i> , ² <i>Universidade de Franca, Brazil</i>
[P2.136]	Pd nanoparticles immobilized on graphene oxide/ silica nanocomposite: A more stable catalyst for C-C coupling reactions R.L. Oliveira*, C.R.D. Correia, <i>Campinas Univeristy, Brazil</i>
[P2.137]	Synthesis of carbon-based Fe₅C₂ nanocatalysts for high-temperature fischer-tropsch reaction J.C. Park*, D.H. Chun, J-I. Yang, H-T. Lee, H-D. Jeong, H. Jung, <i>Korea Institute of Energy Research, Republic of Korea</i>
[P2.138]	Soft- and Hard-templating synthesis of sulphur-doped porous carbons A.M. de Yuso ¹ , M. de Fina ¹ , C. Nita ^{1,2} , P. Fioux ¹ , J. Parmentier* ¹ , C. Ghimbeu ¹ , ¹ <i>Université de Haute-Alsace, France</i> , ² <i>National Institute for Lasers, Romania</i>
[P2.139]	ZSM-5 zeolite hollow spheres prepared without addition of tetraalkylammonium and mechanical templates V. Pashkova* ¹ , V. Tokarova ² , K. Mlekodaj ¹ , L. Brabec ¹ , J. Dedeczek ¹ , ¹ <i>J. Heyrovsky Institute of Physical Chemistry of the ASCR, Czech Republic</i> , ² <i>Unipetrol Centre for Research and Education, Czech Republic</i>
[P2.140]	Al distribution and extra-framework sites of divalent cations in zeolite TNU-9 V. Pashkova* ¹ , R. Karcz ^{1,2} , K. Mlekodaj ¹ , P. Klein ¹ , E. Tabor ¹ , S. Sklenak ¹ , J. Dedeczek ¹ , ¹ <i>J. Heyrovsky Institute of Physical Chemistry of the ASCR, Czech Republic</i> , ² <i>Polish Academy of Sciences, Poland</i>
[P2.141]	Transparent conductive thin films of oriented silver nanowires V. Lemaire, M. Pauly*, G. Decher, <i>Institut Charles Sadron, France</i>
[P2.142]	Dextrin-based hydrogel as an injectable carrier for macroporous bone graft granules and other bioactive agents I. Pereira*, M. Oliveira, A. Rodrigues, C. Rodrigues, L. Maltez, A.R. Caseiro, A.C. Maurício, J.D. Santos, F. Muñoz, J. Pereira, <i>University of Minho, Portugal</i>
[P2.143]	Use of pseudoboehmite and graphene oxide for drug delivery system of acyclovir A.H. Munhoz Jr, L.F. Miranda, R.M. Peres*, M.V. Rossi, V.X. Nagima, M.O. Oliveira, <i>Universidade Presbiteriana Mackenzie, Brazil</i>
[P2.144]	Simultaneous electrochemical determination of trace heavy metals using bismuth-activated graphene nanocomposite modified electrode S. Lee, Y. Piao*, <i>Seoul National University, Republic of Korea</i>

[P2.145]	Synthesis of mPEG-co-PCL nanoparticles for controlled methotrexate delivery R.D. Piazza*, S.H.P. Kitamura, J.V. Brandt, V.A.V. Magalhães, R.F.C. Marques, M. Jafelicci Junior, <i>Institute of Chemistry UNESP, Brazil</i>
[P2.146]	Porous hydroxyapatite scaffolds surface modified with Pluronic® for alendronate delivery T.P. Costa, R.D. Piazza*, C.O. Rocha, M. Jafelicci Jr., R.F.C. Marques, <i>Institute of Chemistry-UNESP, Brazil</i>
[P2.147]	The structure of CO₂ chemisorbed species in amine-functionalized mesoporous silicas L. Mafrá ¹ , T. Cendak ¹ , S. Schneider ¹ , P. Wiper ¹ , J. Pires ² , J.R.B. Gomes ¹ , M.L. Pinto ^{*2} , ¹ CICECO - Aveiro <i>Institute of Materials, Portugal</i> , ² Universidade de Lisboa, Portugal
[P2.148]	Adsorption of hexane isomers by microporous clay based materials J. Pires ^{*1} , A. Fernandes ¹ , R. Caracciolo ^{1,2} , ¹ University of Lisbon, Portugal, ² Université Pierre et Marie Curie, France
[P2.149]	On the general water harvesting capability of metal-organic frameworks under well-defined climatic conditions C.G. Piscopo*, F. Trapani, A. Polyzoidis, S. Loebbecke, <i>Fraunhofer Institute for Chemical Technology, Germany</i>
[P2.150]	Energy transfer between plasmon-enhanced up-converting NaYF₄:Er³⁺/Yb³⁺ nanocrystals and graphene A. Prymaczek ^{*1} , M. Nyk ² , S. Winters ³ , I. Kaminska ^{1,4} , D. Piatkowski ¹ , G.S. Duesberg ³ , S. Mackowski ¹ , ¹ Nicolaus Copernicus University, Poland, ² Wroclaw University of Technology, Poland, ³ Trinity College Dublin, Ireland, ⁴ Technical University of Braunschweig, Germany
[P2.151]	Ureasyl-polyether hybrids containing magnetic nanoparticles to combine drug delivery and magnetic hyperthermia features R. Fini ¹ , B.L. Caetano ¹ , C.V. Santilli ¹ , V. Dupuis ² , S. Abramson ² , S. Neveu ² , C. Menager ² , S.H. Pulcinelli ^{*1} , ¹ Instituto de Química/UNESP, Brazil, ² Sorbone Universities, France
[P2.152]	A novel method for sulfonation of multi walled carbon nanotubes F. Radmanesh*, A. Moheb, Z. Raeisi, M. Ghiaci, <i>Isfahan university of technology, Iran</i>
[P2.153]	Titanate nanotubes-incorporated poly(vinyl alcohol) nanocomposite membranes for pervaporation separation of water-isopropanol mixtures Z. Raeisi*, A. Moheb, M. Sadeghi, F. Radmanesh, A. Abdolmaleki, <i>Isfahan university of technology, Iran</i>
[P2.154]	Hierarchical nanocomposites inspired from the nanostructure and chemistry of osteochondral tissue A.K. Rajasekharan*, W. He, A.T. Bagha, R. Bordes, M. Andersson, <i>Chalmers University of Technology, Sweden</i>
[P2.155]	Nonstoichiometric transition metal compounds nanoparticles A.A. Rempel ¹ , ¹ Institute of Solid State Chemistry, Russia, ² Ural federal university, Russia
[P2.156]	Vacuum made hydroxyapatite (HAp)/titanium monoxide (TiOy) nanocomposite with enhanced functional properties S.V. Rempel ^{*1,2} , A.A. Valeeva ^{1,2} , ¹ Institute of Solid State Chemistry, Ural Branch, Russian Academy of Sciences, Russia, ² Ural Federal University, Russia
[P2.157]	Mesoporous silica nanoparticle membranes for boron scavenging T. Ribeiro*, F. Albertini, S. Alves, C. Baleizão, J.P.S. Farinha, <i>Instituto Superior Técnico, Portugal</i>
[P2.158]	Investigation of the olefin-maleic anhydride copolymer treatment of carbon nanotubes by iGC N. Rieder*, C. Varga, A. Dallos, <i>University of Pannonia, Hungary</i>
[P2.159]	Covalent hydrogel nanocomposites based on alginate and mesoporous silica as a polymer carrier for drug delivery H.H.C. de Lima ¹ , V.L. Kupfer ¹ , M.P. Moises ^{1,2} , M.R. Guilherme ¹ , A.F. Rubira ¹ , A.W. Rinaldi ^{*1} , ¹ State University of Maringa, Brazil, ² Federal University of Technology of Parana, Brazil
[P2.160]	Electrochemical determination of BPA using sensors containing hybrid MOF F.R. Veregue ¹ , C.T.P. da Silva ¹ , J.G. Meneguín ¹ , L.W. Aguiar ¹ , G.R. da Silva ¹ , J.C. Rinaldi ^{*2} , A.W. Rinaldi ¹ , ¹ LMSen - Materials Chemistry and Sensors Laboratory - State University of Maringa, Brazil, ² State University of Maringa, Brazil
[P2.161]	Polyhedral Oligosilsesquioxane (POSS) based Nano-solvents for CO₂ capture N. Rival*, G. Kignelman, E. Langseth, C. Simon, <i>SINTEF, Norway</i>
[P2.162]	Galvanic replacement coupled to seeded growth as a route for shape-controlled synthesis of plasmonic nanorattles L. Polavarapu ^{1,2} , D. Zanaga ³ , T. Altantzis ³ , S. Rodal-Cedeira ^{*2} , I. Pastoriza-Santos ² , J. Pérez-Juste ² , S. Bals ³ , L.M. Liz-Marzán ^{1,4} , ¹ CIC biomaGUNE, Spain, ² Universidade de Vigo, Spain, ³ University of Antwerp, Belgium, ⁴ Ikerbasque Basque Foundation for Science, Spain, ⁵ CIBER de Bioingeniería, Biomateriales y Nanomedicina, Spain

[P2.163]	Omnidirectional antireflection biomimetic surfaces for display screens J. Rombaut* ¹ , P. Mazumder ² , V. Finazzi ¹ , V. Pruneri ^{1,3} , ¹ ICFO - The Institute of Photonic Sciences, Spain, ² Corning Incorporated, USA, ³ ICREA - Institució Catalana de Recerca i Estudis Avançats, Spain
[P2.164]	Influence Of SiO₂ in ZnO-SiO₂ nanocomposites as antibacterial materials M.D. Romero-Sánchez*, N. Cuesta, M.I. Maestre, F. Arán-Aís, <i>INESCOP. Centre for Technology and Innovation, Spain</i>
[P2.165]	Preparation of porous cross-linking 2,3-dialdehyde cellulose beads and its application in protein separation C-Q. Ruan*, M. Strömme, J. Lindh, <i>Uppsala University, Sweden</i>
[P2.166]	Conformation-controlled hydrogen storage in CAU-1 metal-organic framework M. Russina* ¹ , M. Schlegel ² , D. Toebebens ¹ , R. Svetogorow ³ , H. Krueger ⁴ , N. Stock ⁴ , H. Reinsch ⁴ , D. Wallacher ¹ , R. Stewart ⁴ , ¹ Helmholtz-Zentrum Berlin für Materialien und Energie, Germany, ² Federal Institute for Materials Research and Testing, Germany, ³ NRC Kurchatov Institute, Russia, ⁴ Christian-Albrecht-Universität zu Kiel, Germany
[P2.167]	A photofunctional bis(dipyrinato)zinc(II) complex nanosheet R. Sakamoto* ^{1,2} , H. Nishihara ¹ , ¹ The University of Tokyo, Japan, ² JST-PRESTO, Japan
[P2.168]	Capture of marine phycotoxin okadaic acid by covalent organic frameworks L.M. Salonen*, S. Pinela, S.P.S. Fernandes, J. Louçano, M.P. Sárria, C. Rodríguez-Abreu, B. Espiña, <i>INL, Portugal</i>
[P2.169]	A polyhedral oligomeric silsesquioxane functionalized copper trimesate E.S. Sanil* ^{1,2} , D-Y. Hong ^{1,2} , J-S. Chang ² , Y-K. Hwang ^{1,2} , ¹ University of Science and Technology, Republic of Korea, ² Korea Research Institute of Chemical Technology, Republic of Korea
[P2.170]	Siloxane-polyurethane sol-gel green-coating for corrosion protection A.G. Braz, S.H. Pulcinelli, P. Hammer, C.V. Santilli*, <i>Instituto de Química – UNESP, Brazil</i>
[P2.171]	Ureasil-PEO/montmorillonite nanocomposite as dye adsorbent Y.H. Bermúdez, L. Truffault, S.H. Pulcinelli, C.V. Santilli*, <i>Instituto de Química - UNESP, Brazil</i>
[P2.172]	Mesostructured silica/hydroxyapatite nanocomposites as carriers for antibacterial drugs R.A. García-Muñoz, R. Sanz Martín*, V. Morales, A. Martín Rengel, J. Ortiz-Bustos, <i>Universidad Rey Juan Carlos, Spain</i>
[P2.173]	Direct imaging of electron irradiation induced atomic ordering in CoPt nanoparticles K. Sato*, H. Yasuda, <i>Osaka University, Japan</i>
[P2.174]	Porphyrim activation on MgO nanoparticles J. Schneider* ¹ , J. Bernardi ² , T. Berger ¹ , O. Diwald ¹ , ¹ University of Salzburg, Austria, ² Vienna University of Technology, Austria
[P2.175]	Polymer decorated gold nanorods: Temperature-controlled switching of their plasmonic properties in aqueous solution S. Schweizerhof*, A. Mourran, K. Rahimi, H. Keul, M. Möller, <i>DWI Leibniz Institute for Interactive Materials, Germany</i>
[P2.176]	Influence of functionalized polyhedral oligomeric silsesquioxane (POSS) on the mechanical properties of polymer compounds H. Bu, J. Yang, A. Mourad, P. McMahon, C. Simon*, <i>SINTEF, Norway</i>
[P2.177]	Oxidative silk – MnO₂ nanoparticles hybrid catalysts M. Singh*, C. Musy, E. Dey, C. Dicko, <i>Lund University, Sweden</i>
[P2.178]	Facile microwave assisted synthesis of Co and Ni doped ZnO nanoparticles and their use in MEH-PPV nanocomposites D. Skoda*, P. Urbanek, J. Sevcik, L. Munster, I. Kuritka, <i>Centre of Polymer Systems, Tomas Bata University in Zlin, Czech Republic</i>
[P2.179]	Development of smart cooling gloves system for improving sports performance using thermoelectric device J.S. Son* ¹ , J.I. Kim ² , S.C. Kim ¹ , ¹ Korea Textile Development Institute, Republic of Korea, ² Silla System Co. Ltd., Republic of Korea
[P2.180]	Hybrid system of mesoporous silica - thermo and pH sensitive hydrogel as a carrier for delivery of anticancer agent G.A.A. Monteiro ² , E.M.B. Sousa ² , R.G. Sousa* ¹ , ¹ UFMG, Brazil, ² CDTN-CNEN, Brazil
[P2.181]	Studies on synthesis of CdSe quantum dots varying the selenium precursors J.B. Souza Jr.* ¹ , L.C. Varanda, <i>University of São Paulo, Brazil</i>
[P2.182]	Transcrystallization of polycarbonate induced by alumina nanofibers W. Sun* ¹ , A.H. Barber ^{1,2} , ¹ University of London, UK, ² University of Portsmouth, UK

[P2.183]	Visible light absorbing nanowire colloid for naked eye optical detection of electrostatic charges A. Sutka ^{*1,2} , M. Timusk ^{1,2} , K. Saal ¹ , M. Järvekülg ¹ , ¹ University of Tartu, Estonia, ² Riga Technical University, Latvia
[P2.184]	Optical properties of polymer complex nanocrystals having bipyridinium unit on the nanocrystal surface R. Suzuki*, T. Onodera, H. Kasai, H. Oikawa, <i>Tohoku University, Japan</i>
[P2.185]	Rare Earth doped nanocomposites as dual modal contrast agents for infrared fluorescence and photoacoustic imaging S. He ¹ , Y. Sheng ¹ , L-D. Liao ² , N. Thakor ² , M.C. Tan ^{*1} , ¹ Singapore University of Technology and Design, Singapore, ² National University of Singapore, Singapore
[P2.186]	Biotope-directed morphology engineering: Towards ordered arrangement of ZIF-8 in artificial leaves for enhanced water/alcohol separation Y. Tang*, M. Hazeleger, G. Rothenberg, S. Grecea, <i>University of Amsterdam, The Netherlands</i>
[P2.187]	Raman signal enhancement of Quasi-fractal geometries of Au nanoparticles R. Darienzo, T. Mironava, R. Tannenbaum*, <i>Stony Brook University, USA</i>
[P2.188]	New synthetic approaches to prepare highly sulfonated Periodic Mesoporous Organosilica (PMO) for the application as solid state proton conductors J. Timm*, R. Marschall, <i>Justus-Liebig University, Germany</i>
[P2.189]	Thick silica foam films through combined catalytic decomposition of H₂O₂ and sol-gel processes M. Timusk ^{*1,2} , A. Kuus ² , T. Kangur ² , A. Šutka ^{2,1} , M. Järvekülg ^{2,1} , M. Knite ¹ , ¹ Riga Technical University, Latvia, ² University of Tartu, Estonia
[P2.190]	Surface modification of magnetic nanoparticles with thermoresponsive P(NIPAAm-co-DMAAm) copolymers for drug delivery and hyperthermia A.C.T. Tognolo ^{*1} , J. Vega-Chacón ¹ , T.P. Costa ¹ , V.A.V. Magalhães ¹ , J.C. Freitas ^{1,2} , M.G.N. Campos ^{1,2} , M. Jafelicci Jr ¹ , R.F.C. Marques ¹ , ¹ Institute of Chemistry UNESP Araraquara, Brazil, ² University of Alfenas, Brazil
[P2.191]	Nanostructured electrocatalysts for hydrogen generation R. Toth*, A. Braun, <i>Empa, Switzerland</i>
[P2.192]	EGFR-targeted lipid "sponge" nanoparticles for the delivery of Paclitaxel to ovarian cancer N. Tran ^{*1} , J. Zhai ¹ , R. Luwor ² , N. Ahmed ³ , C.J. Drummond ¹ , ¹ RMIT University, Australia, ² University of Melbourne, Australia, ³ Fiona Esey Cancer Research Institute, Australia
[P2.193]	pH- and metal-responsive polymer-peptide hybrid hydrogels inspired by mussel byssus assembly A. Trapaidze*, M.J. Harrington, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[P2.194]	Versatile one-step route to synthesize high-quality rGO and rGO-nanoparticle composites based on modified polyol process R.F. Albers ¹ , R.A. Bini ² , J.B. Sousa Jr. ¹ , L.C. Varanda ^{*1} , ¹ University of São Paulo, Brazil, ² Federal University of Technology of Paraná, Brazil
[P2.195]	Functionalised silica nanoparticles as nano-additives to improve corrosion protection of polysiloxane-based coatings L. Vivar Mora ^{*1,2} , A. Neville ² , R. Barker ² , S. Naik ³ , A. Rexach ³ , ¹ NSIRC, UK, ² University of Leeds, UK, ³ TWI Ltd., UK
[P2.196]	Colloidal templates for the preparation of porous hybrid membranes via melt-shear organization S. Vowinkel*, M. Gallei, <i>TU Darmstadt, Germany</i>
[P2.197]	Structure and properties of bio-inspired hybrid materials investigated by in-situ x-ray scattering and mechanical tensile testing B.M. Seidt ^{1,2} , V. Samsoninkova ^{2,3} , A. Gjardy ¹ , F. Hansske ³ , P. Fratzl ¹ , H. Boerner ³ , W. Wagermaier ^{*1} , ¹ Max Planck Institute of Colloids and Interfaces, Germany, ² School of Analytical Science Adlershof, Germany, ³ Humboldt University Berlin, Germany
[P2.198]	Comprehensive studies on interaction between mammalian cells and MWCNT based matrices A. Warowicka*, B.M. Maciejewska, J. Litowczenko, <i>NanoBioMedical Centre, Adam Mickiewicz University in Poznan, Poland</i>
[P2.199]	Crystallization processes at an early stage in amorphous antimony nanoparticles H. Yasuda, <i>Osaka University, Japan</i>
[P2.200]	N-Heterocyclic carbene-Pt compounds: Preparation and activity for hydrosilylation B.R. Yoo*, J.W. Song, J.H. Yoo, J.S. Han, <i>Korea Institute of Science and Technology, Republic of Korea</i>
[P2.201]	A density functional theory (DFT) study for correlating electronic properties of heterojunction CuFeO₂/CuO material to CO₂ photoconversion S.H. Yoon ^{*1} , U. Kang ² , H.Y. Park ² , A. Abdel-Wahab ^{1,3} , D.S. Han ¹ , ¹ Texas A&M University at Qatar, Qatar, ² Kyungpook National University, Republic of Korea, ³ Texas A&M University, USA

[P2.202]	Laser direct write of metal oxide semiconducting micro and nanostructures C.C. Yeh ^{1,2} , S.Y. Yu ^{*1,2} , D. Berling ¹ , A. Spangenberg ¹ , H.C. Liu ² , M.Y. Chuang ² , H.W. Zan ² , O. Soppera ¹ , ¹ CNRS, France, ² NCTU, Taiwan
[P2.203]	Properties of InGaZnO material prepared by DUV irradiation S.Y. Yu ^{*1,2} , C.C. Yeh ^{1,2} , F. Stehlin ¹ , D. Berling ¹ , A. Spangenberg ¹ , H.C. Lin ² , C.H. Li ² , H.W. Zan ² , O. Soppera ¹ , ¹ CNRS, France, ² NCTU, Taiwan
[P2.204]	Novel biocomposites tailored with magnetic nanoparticles for tissue engineering applications C. Zaharia ^{*1} , E. Vasile ² , I. Radu ¹ , P. Stanescu ¹ , B. Galateanu ³ , H. Iovu ¹ , ¹ University Politehnica of, Advanced Polymer Materials Group Bucharest, Romania, ² University Politehnica of Bucharest, Romania, ³ University of Bucharest, Department of Biochemistry and Molecular Biology, Romania
[P2.205]	MoO₃/C paper for binder-free anode material: Fabrication and flexible mechanism by electrospinning L.P. Zhao [*] , P. Zhang, X.F. Song, L. Gao, Shanghai Jiaotong University, China
[P2.206]	Bioinspired multi-gradient micro- and nano-structured materials for water collection/repellency Y. Zheng, Beihang University, China
[P2.207]	A silica precursor polymer approach toward silica-based hybrid nanoparticles X. Zhu ^{*1,2} , Y. Zhao ^{1,2} , M. Möller ^{1,2} , ¹ DWI - Leibniz-Institute for Interactive Materials e.V., Germany, ² RWTH Aachen University, Germany
[P2.208]	Functionalisation and characterisation of silica nanoparticles for polymer composites W. Ziegler ^{*1} , G. Riess ¹ , J. Winter ¹ , S. Kopeinig ³ , M. Dietrich ³ , K. Resch-Fauster ² , W. Kern ¹ , G. Pinter ² , ¹ Chair of Chemistry of Polymeric Materials, Montanuniversitaet Leoben, Austria, ² Chair of Materials Science and Testing of Polymers, Montanuniversitaet Leoben, Austria, ³ Getzner Werkstoffe GmbH, Austria
[P2.209]	Thermal stability and structural features of siloxane-PMMA hybrid films containing zinc oxide nanoparticles R. Fini, A.F. Suzana, C.V. Santilli, S.H. Pulcinelli [*] , Instituto de Química/UNESP, Brazil
[P2.210]	Melt mixed composites of polypropylene with single walled carbon nanotubes: Investigation of thermoelectric properties P. Pötschke [*] , J. Luo, B. Krause, Leibniz-Institut für Polymerforschung Dresden e.V., Germany
[P2.211]	Highly porous 3D silicon nitride scaffolds manufactured by robocasting. Processing and properties M.A. Sainz [*] , B. RomanManso, M. Belmonte, P. Miranzo, M.I. Osendi, Institute of Ceramics and Glass (CSIC), Spain
[P2.212]	Preparation of well-shaped MOF spheres using alginates - an optimization study T. Didriksen, R.E. Stensrød, A.I. Spjelkavik, F. Karimov, R. Blom [*] , SINTEF Materials and Chemistry, Norway
[P2.213]	High efficiency thermal energy harvester using carbon nanotube aerogel sheet electrodes T. Kim [*] , S. Lee, Y. Kim, Seoul National University, Republic of Korea
[P2.214]	Nano-sio₂ coating on natural knitted textiles used as reinforcement on polymer composites G.A. Díaz-Ramírez [*] , M. Manrique, R.A. Cruz H., Industrial University of Santander, Colombia
[P2.215]	Two-stage kinetics of field-induced aggregation and magnetic filtration of 50 nm-sized magnetic nanoparticles H. Ezzaier ^{*1,2} , J. Alves-Marins ¹ , A. Bel haj Amara ¹ , A. Zubareb ¹ , P. Kuzhir ¹ , ¹ University of Nice-Sophia Antipolis, France, ² University of Carthage Faculty of Sciences of Bizerte, Tunisia, ³ Ural Federal University, Russia
[P2.216]	Analysis of the cell response after TiO₂ nanotubes growth on the Ti15Zr alloy surface R.T. Konatu ¹ , C.R. Grandini ¹ , M. Alense ¹ , A.Z. Simões ¹ , K.C. Popat ¹ , A.P.R. Alves Claro ^{*1} ¹ UNESP, Brazil, ² CSU, USA
[P1.169]	Poly(lactic acid)-based scaffolds coated with hyaluronic acid using non-thermal atmospheric pressure plasma treatment and the investigation of their biocompatibility K. Stankevich ^{*1,2} , V. Kudryavtseva ¹ , E. Kibler ¹ , E. Bolbasov ¹ , V. Riabov ² , A. Gudima ² , M. Zhuravlev ¹ , V. Filimonov ¹ , S. Tverdokhlebov ¹ , J. Kzhyshkowska ^{2,3} , ¹ Tomsk Polytechnic University, Russia, ² Heidelberg University, Germany, ³ German Red Cross Blood Service Baden-Württemberg – Hessen, Germany

Poster Session 3

Thursday, 9 March 2017, 10:20-11:20 & 15:50-17:15

[P3.001]	Vertically-aligned carbon nanotubes grown on embroidered copper current collectors for high-performance lithium-ion batteries N. Aguiló-Aguayo ^{*1} , R. Amade ² , S. Hussain ² , E. Bertran ² , T. Bechtold ¹ , ¹ University of Innsbruck, Austria, ² Universitat de Barcelona, Spain
----------	---

[P3.002]	Multifunctional catalyst development for thermo neutral reforming of liquid fuels for hydrogen production S. Ahmed* ¹ , F. Al-Muhaish ² , U. Baduruthamal ¹ , A. Al-Naimi ² , ¹ King Fahd University of Petroleum & Minerals, Saudi Arabia, ² Saudi Arabian Oil Company, Saudi Arabia
[P3.003]	NH₂-functionalized porous aromatic polymers for energy and environmental applications: CO₂ capture and clean catalytic Ullmann coupling of aryl chlorides in water P. Puthiaraj, Y. Lee, W.S. Ahn*, <i>Inha University, Republic of Korea</i>
[P3.004]	Simple and versatile fabrication of 3D micro-supercapacitors using pneumatic printing combined with intense pulsed white light H. Ahn* ¹ , C. Song ¹ , H-S. Kim ¹ , J. Bae ² , ¹ Hanyang University, Republic of Korea, ² Kyungpook National University, Republic of Korea
[P3.005]	Resonance energy transfer from dioxaborine cyanine dye to single wall carbon nanotubes: Photoluminescence excitation-emission study M. Al Araimi* ^{1,2} , P. Lutsyk ^{1,3} , A. Verbitsky ³ , Y. Piryatinski ³ , M. Shandura ⁴ , A. Rozhin ¹ , ¹ Aston University, UK, ² Al Musanna College of Technology, Oman, ³ Institute of Physics, National Academy of Sciences of Ukraine, Ukraine, ⁴ Institute of Organic Chemistry, National Academy of Sciences of Ukraine, Ukraine
[P3.006]	Polyoxovanadate based electrode materials for Li ion batteries T. Alagarsamy, <i>Indian Institute of Science Education and Research Thiruvananthapuram, India</i>
[P3.007]	MOVED TO POSTER SESSION 1
[P3.008]	New luminescent EuVO₄ sensors for explosive detection: From nanoparticles to operational portable system C. Ambard* ¹ , N. Duée ¹ , F. Pereira ¹ , C. Methivier ³ , C-M. Pradier ³ , D. Autissier ¹ , D. Portehault ² , C. Sanchez ² , ¹ CEA Le Ripault, France, ² UPMC, France, ³ UMR 7197 Laboratoire de Réactivité de Surface, France
[P3.009]	Structure-properties relationships of electrically conductive nanocomposite foams M. Antunes* ^{1,2} , G. Gedler ^{1,2} , H. Abbasi ^{1,2} , J.I. Velasco ^{1,2} , ¹ Centre Català del Plàstic, Spain, ² Universitat Politècnica de Catalunya, Spain
[P3.010]	Nanoparticles as flame retardant synergists in ABS-based composite foams V. Realinho ^{1,2} , D. Arencón ^{1,2} , M. Antunes* ^{1,2} , J.I. Velasco ^{1,2} , ¹ Centre Català del Plàstic, Spain, ² Universitat Politècnica de Catalunya, Spain
[P3.011]	Hybrid molecularly imprinted polymer for label-free detection of antibiotics A.G. Ayankojo*, V. Syritski, J. Reut, A. Öpik, <i>Tallinn University of Technology, Estonia</i>
[P3.012]	Responsive electrospun fibers with temperature triggered switchable wettability A. Baji*, A.S. Ranganathan, <i>Singapore University of Technology and Design, Singapore</i>
[P3.013]	Highly stable silver nanoparticles generated in responsive multi-microgels for efficient catalytic reduction of 4-nitroaniline R. Begum*, G. Ahmad, Z.H. Farooqi, K. Naseem, <i>University of the Punjab, Pakistan</i>
[P3.014]	Direct ESEM and Wet STEM visualization of uptake of gold nanorods into mammalian stem cells D. Belic* ¹ , O. Fragueiro ¹ , D. Salah ^{1,2} , M. Volk ¹ , M. Brust ¹ , ¹ University of Liverpool, UK, ² Ain Shams University, Egypt
[P3.015]	MOF-based catalysts for hydrogen production from formic acid M. Mihet, M. Dan, L. Barbu-Tudoran, G. Borodi, G. Blanita*, <i>National Institute for Research and Development of Isotopic and Molecular Technologies, Romania</i>
[P3.016]	Inorganic-organic self-oriented hybrid TiO₂-based nanomaterials: Effects of PEG-matrix on morphology and architecture O.V. Boytsova* ^{1,2} , V.K. Ivanov ^{2,3} , P.O. Brien ⁴ , A.J. Sutherland ¹ , ¹ Aston Materials Centre, UK, ² Kurnakov Institute of Inorganic Chemistry RAS, Russia, ³ Tomsk State University, Russia, ⁴ University of Manchester, UK
[P3.017]	Porous carbons for adsorption applications V. Slovák ¹ , P. Bulavová* ¹ , T. Zelenka ¹ , J. Parmentier ² , G. Hotová ¹ , E. Kinnertová ¹ , J. Štefelová ¹ , ¹ University of Ostrava, Czech Republic, ² Institute of Material Sciences of Mulhouse (IS2M), France
[P3.018]	Gd[Fe(CN)₆]@SiO₂ nanohybrids as dual mode T1 and T2 magnetic resonance imaging contrast agents A.C.G. Cabrera-García* ¹ , A.V.M. Vidal-Moya ¹ , A.B. Bernabeu ² , J.P.T. Pacheco-Torres ³ , E.C.C. Checa-Chavarria ⁴ , E.F. Fernandez ⁴ , P.B. Botella ¹ , ¹ Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, Spain, ² INSCANNER S.L, Spain, ³ Instituto de Neurociencias, Spain, ⁴ Institute of Bioengineering, Spain
[P3.019]	Production of Galactose conjugated PLGA nanoparticles to target hepatocytes C.D. Raposo ¹ , R. Costa ² , K.T. Petrova ¹ , M.T. Barros ¹ , M.T. Scotti ³ , C. Brito ² , M.M. Cardoso* ¹ , ¹ Universidade NOVA de Lisboa, Portugal, ² Laboratório de Células Animais, Portugal, ³ Universidade Federal da Paraíba, Brazil
[P3.020]	Biocompatible magneto-thermoreponsive nanogels for controlled drug release by magnetic hyperthermia E.C. Cortés* ¹ , A. Espinosa ² , N. Griffete ¹ , C. Wilhelm ² , C. Ménager ¹ , ¹ Pierre et Marie Curie University, France, ²

	² Paris Diderot University, France
[P3.021]	Bright red emitting P3HT based polymer dots for cellular imaging J. Chelora Veetil*, J. Zhang, R. Chen, C-S. Lee, <i>City University of Hong Kong, Hong Kong</i>
[P3.022]	Photocurable extracellular matrices for UV printing microniches W. Chen* ^{1,2} , C. Stoecklin ² , V. Viasnoff ² , E. Fong ¹ , ¹ Nanyang Technological University, Singapore, ² National University of Singapore, Singapore
[P3.023]	Bioinspired, environment-friendly, super-wetted nylon mesh for oil/water separation F.Z. Chen* ^{1,2} , X. Liu ¹ , I. Parkin ² , ¹ Dalian University of Technology, China, ² University College London, UK
[P3.024]	Highly sensitive plasmonic biosensors with carboxyl-functionalized graphene oxide sensing layer N.F. Chiu*, S.Y. Fan, <i>National Taiwan Normal University, Taiwan</i>
[P3.025]	Synthesis of amino functionalized graphene oxide for SPR biosensors N.F. Chiu*, C.T. Kuo, <i>National Taiwan Normal University, Taiwan</i>
[P3.026]	Development of porous composite membrane for alkaline water electrolysis W.C. Cho*, C.H. Kim, H.S. Cho, <i>korea institute of energy research, Republic of Korea</i>
[P3.027]	Synthesis and characterization of multifunctional bodipy nanogels for the path tracing of acute vapour inhalation toxicity K-H. Choi* ¹ , H-J. Kim ² , H-C. Ji ³ , K-C. Nam ³ , J-C. Park ⁴ , B-J. Park ¹ , ¹ Kwangwoon University, Republic of Korea, ² Chosun University, Republic of Korea, ³ Dongguk University College of Medicine, Republic of Korea, ⁴ Yonsei University College of Medicine, Republic of Korea
[P3.028]	Thermal properties for Co-Zn nanoparticles by the Mössbauer spectroscopy H. Choi*, S.J. Kim, I-B. Shim, C.S. Kim, <i>Kookmin University, Republic of Korea</i>
[P3.029]	Sequential growth of hybrid inorganic-organic alucone thin film by molecular layer deposition U.J. Choi*, J.S. Lee, <i>Sookmyung Women's University, Republic of Korea</i>
[P3.030]	Tailoring infrared transmission spectrum of chalcogenide glass via elemental doping J.H. Lee ¹ , J.H. Yi ¹ , W.H. Lee ¹ , W.J. Chung ² , Y.G. Choi* ¹ , ¹ Korea Aerospace University, Republic of Korea, ² Kongju National University, Republic of Korea
[P3.031]	Intrinsic electromagnetic radiation shielding and absorbing properties of magnetic metal coated glass fabric J.R. Choi*, B.M. Jung, S.K. Lee, S.B. Lee, <i>Korea Institute of Materials Science, Republic of Korea</i>
[P3.032]	Fluorescent supramolecular hydrogel self-assembled from smallest amino-acid-based tetraphenylethenes N-T. Chu*, H-C. Lin, <i>National Chiao Tung University, Taiwan</i>
[P3.033]	Nanocrystal embedded oxyfluoride glass ceramic doped with Eu²⁺ for an efficient UV-LED color converter H. Lee ¹ , S.H. Lee ¹ , Y.G. Choi ² , W.B. Im ³ , W.J. Chung* ¹ , ¹ Kongju National University, Republic of Korea, ² Korea Aerospace University, Republic of Korea, ³ Chonnam National University, Republic of Korea
[P3.034]	Dynamic self-assembly of ZnO nanoparticulate interfaces into supramolecular organic-inorganic materials A.M. Cieślak* ¹ , E-R. Janeček ² , K. Sokołowski ¹ , T. Ratajczyk ¹ , M.K. Leszczyński ¹ , O.A. Scherman ² , J. Lewiński ^{1,3} , ¹ Polish Academy of Sciences, Poland, ² University of Cambridge, UK, ³ Warsaw University of Technology, Poland
[P3.035]	Grain growth control of nano soft ferrites through a microwave sintering process C. Clausell-Terol* ¹ , A. Barba-Juan ¹ , L. Jaworska ² , P. Putyra ² , ¹ Universitat Jaume I de Castellón, Spain, ² The Institute of Advanced Manufacturing Technology, Poland
[P3.036]	An NMR study on ionic liquid crystals (ILCs) as ion conductive materials M.C. Corvo* ¹ , T.G. Paiva ¹ , G.P. Marcelino ¹ , P.L. Almeida ^{1,2} , ¹ FCT-UNL, Portugal, ² ISEL-IPL, Portugal
[P3.037]	Probing the one-photon excited intrinsic photoluminescence of gold nanoparticles in solution by fluorescence correlation spectroscopy towards biosensing applications A.M. Craciun*, S. Suarasan, M. Focsan, S. Astilean, <i>Babes-Boyai University, Romania</i>
[P3.038]	Light-harvesting antennae using the host-guest chemistry of mesoporous organosilica F. Cucinotta* ¹ , B.P. Jarman ¹ , H.J. Riggs ² , S.J. Cooper ² , ¹ Newcastle University, Newcastle upon Tyne, UK, ² Durham University, Durham, UK
[P3.039]	Cellulose-based hydrogel stickers applied as gate dielectric in paper electrolyte-gated transistors I. Cunha* ^{1,2} , R. Barras ^{1,2} , P. Grey ^{1,2} , D. Gaspar ^{1,2} , L. Pereira ^{1,2} , E. Fortunato ^{1,2} , R. Martins ^{1,2} , ¹ CENIMAT/i3N, Portugal, ² CEMOP-UNINOVA, Portugal
[P3.040]	Clay/TiO₂/Cobalt(II)-tetracarboxyphthalocyanine nanocomposites as promising photocatalysts T.H. Silva ¹ , T.F.M. Souza ² , A.O. Ribeiro ² , E.J. Nassar ¹ , K.J. Ciuffi ¹ , M.A. Vicente ³ , R. Trujillano ³ , V. Rives ³ , E.H. de Faria* ¹ , ¹ Universidade de Franca, Brazil, ² Universidade Federal do ABC, Brazil, ³ Universidad de Salamanca, Spain
[P3.041]	Multifunctional materials for solar fuels production by artificial photosynthesis P. Reñones, A. García-Sánchez, C. García, L. Collado, M. Liras, F. Fresno, V.A. de la Peña O'Shea*, <i>IMDEA Energía, Spain</i>

[P3.042]	Synergistic effect of gold and polypyrrole on a SPION multi-shell nanostructure for potential biomedical photothermal application L.B. de Mello*, I.O. Mazali, F.A. Sigoli, <i>State University of Campinas (UNICAMP), Brazil</i>
[P3.043]	Quantitative shape analysis of intertesseral joints in tessellated calcified cartilage of sharks and rays (elasmobranchs) R. Seidel ¹ , A. Hosny ² , D. Knötel ³ , P. Fratzl ¹ , D. Baum ³ , J.C. Weaver ² , M.N. Dean* ¹ , ¹ Max Planck Institute of Colloids & Interfaces, Germany, ² Wyss Institute for Biologically Inspired Engineering, USA, ³ Zuse Institute Berlin, Germany
[P3.044]	Biological strategies for load-sharing and damage avoidance: Lessons from stingray teeth A. Hosny ¹ , R. Seidel ² , R. Shahar ³ , D. Baum ⁴ , M.N. Dean* ² , ¹ Wyss Institute for Biologically Inspired Engineering, USA, ² Max Planck Institute of Colloids & Interfaces, Germany, ³ Koret Veterinary School, Israel, ⁴ Zuse Institute Berlin, Germany
[P3.045]	Quantum dot-based clusters functionalized for biodetection F. Dembele* ¹ , M. Tasso ² , A. Fragola ¹ , V. Lorient ¹ , N. Lequeux ¹ , T. Pons ¹ , ¹ ESPCI, France, ² INIFTA, Argentina
[P3.046]	Graphene oxide - TiO₂ inverse opal photonic crystals for enhanced photocatalysis A. Diamantopoulou* ¹ , M.K. Arfanis ² , P. Falaras ² , V. Likodimos ¹ , ¹ National and Kapodistrian University of Athens, Greece, ² Institute of Nanoscience and Nanotechnology, Greece
[P3.047]	Monte Carlo simulations on the interaction of nanoparticles with weak polyelectrolytes M. Stornes ¹ , B. Sherstha ¹ , P. Linse ² , R.S. Dias* ¹ , ¹ Norwegian University of Science and Technology, Norway, ² Lund University, Sweden
[P3.048]	In vitro cellular response of smart hybrid biomimetic coatings obtained by MAPLE V. Dinca ^{1,3} , ¹ National Institute for Lasers, Romania, ² University of Bucharest, Romania
[P3.049]	Functionalized hierarchically porous TiO₂ coated-WO₃ 2D IO bilayer composites films for photochromic application H. Li ^{1,2} , J. Robichaud ² , Y. Djaoued* ² , ¹ Soochow University, China, ² Université de Moncton, Canada
[P3.050]	Quantification of the degree of reaction of fly ash based geopolymer using backscattered electron image analysis approach M. Dodangeh* ^{1,3} , N. Ranjbar ^{2,4} , S. Gholami Bardeji ^{1,3} , ¹ Shiraz University of Medical Sciences, Iran, ² Shiraz University, Iran, ³ University of Coimbra, 3001-501 Coimbra, Portugal, ⁴ University of Malaya, Malaysia
[P3.051]	Cellulose-based liquid crystal/nanofillers system under shear: Structure-properties relationship. C. Echeverria* ¹ , P.L. Almeida ^{2,1} , S.N. Fernandes ¹ , M.H. Godinho ¹ , ¹ FCT/UNL, Portugal, ² ISEL/IPL, Portugal
[P3.052]	Electrochemical synthesis of carbon nanostructures Z. Kudaş, D. Ekinçi*, <i>Atatürk University, Turkey</i>
[P3.053]	Synthesis and characterization of cellulose-acetanilide ether and its antibacterial activity L. El Hamdaoui*, M. El Moussaouiti, <i>University Mohammed V, Faculty of Sciences, Morocco</i>
[P3.054]	One-pot synthesis of theranostic Gd/Fe-containing mesoporous nanoparticulated silicas for signal enhancement in MRI J. EL Haskouri* ¹ , S. Roig Sanchez ¹ , A. Moragues ¹ , C. Garcia Llacer ¹ , N. Puchol ¹ , J-M. Morales ² , V. González-Marrachelli ² , A. Beltrán ¹ , P. Amorós ¹ , ¹ Institut de Ciència dels Materials de la Universitat de València, Spain, ² Hospital Clínico Universitario de la Universidad de València, Spain
[P3.055]	Conductive and degradable composites based on graphenic carbon materials and polyhydroxybutyrate P. Anbukarasu, L. Dan, D. Sauvageau, A.L. Elias*, <i>University of Alberta, Canada</i>
[P3.056]	A simple optical method for sensitive measurements of polymer degradation and stability P. Anbukarasu, D. Sauvageau, A.L. Elias*, <i>University of Alberta, Canada</i>
[P3.057]	Synthesis and characterization of porous azo-linked organic polymer and its use in carbon dioxide capture and separation O.M. El-Kadri* ¹ , T.D. Tessema ² , H.M. El-Kaderi ² , ¹ American University of Sharjah, United Arab Emirates, ² Virginia Commonwealth University, USA
[P3.058]	Diphosphorus and diarsenic ligand complexes as building blocks to form organometallic-organic hybrid materials M. Elsayed Moussa*, S. Welsch, M. Scheer, <i>University of Regensburg, Germany</i>
[P3.059]	Opto-electrical response of organic based photodiodes in low illumination intensity A.H. Fallahpour*, P. Lugli, <i>Technical University of Munich, Germany</i>
[P3.060]	The preparation and spectral properties of fluorophosphate glass-fluoride crystal composites doped with rare earth ions J. Fan*, S. Chen, Y. Jiang, X. Yuan, L. Zhang, <i>Shanghai Institute of Optics and fine Mechanics, China</i>
[P3.061]	Tribological Properties of Plasma Treated Nanodiamond Reinforced PTFE Composites E.S. Lee*, C.H. Lee, Y.K. Lim, D.S. Lim, <i>Department of Materials Science and Engineering, Korea University,</i>

	Seoul 02841, Republic of Korea
[P3.062]	Periodic mesoporous organosilicas as adsorbents of S-metolachlor R. Otero, M.I. López, D. Esquivel, F.J. Romero-Salguero, J.M. Fernández*, <i>Universidad de Cordoba, Spain</i>
[P3.063]	Enhancing the performance of polyethylene based anion exchange membranes using functionalized iron oxide nanoparticles and oxidized multi-walled carbon nanotubes: mechanism and comparison between nanomaterials C. Fernandez-Gonzalez* ^{1,3} , J. Kanavagh ² , H. Coster ² , A. Dominguez-Ramos ¹ , R. Ibáñez ¹ , Y. Chen ³ , A. Irabien ¹ , ¹ <i>Universidad de Cantabria, Spain</i> , ² <i>The University of Sydney, Australia</i> , ³ <i>Georgia Institute of Technology, USA</i>
[P3.064]	Designing flexible multifunctional bionanocomposites containing chitosan, reduced graphene oxide nanosheets and magnetite nanoparticles A. Barra ¹ , Z. Alves ¹ , C. Nunes ¹ , M.A. Martins ¹ , L.P. Ferreira ² , M.M. Cruz ² , M. Godinho ² , M.D. Carvalho ² , B.J. Rodriguez ⁵ , P. Ferreira* ¹ , ¹ <i>University of Aveiro, Portugal</i> , ² <i>Universidade de Lisboa, Portugal</i> , ³ <i>University College Dublin, Ireland</i>
[P3.065]	Formation of metallic nanostructured thin films capped by molecular SAMs G. Acosta, C. Angulo, S. Bahamondes, S. Donoso, H. Fernandez, C. González, A. Ibañez, N. Benito, R. Henriquez, M. Flores*, <i>Universidad de Chile, Chile</i>
[P3.066]	Multifunctional applications of molecular, biologically active, silver coated protein hybrids A. Freeman*, Y. Dror, C. Ophir-Porat, N. Hadar, Y. Shacham-Diamand, <i>Tel Aviv University, Israel</i>
[P3.067]	Specifically interacting polymers for bioinspired fiber-reinforced composites F. Gandor*, H.G. Börner, <i>Humboldt-Universität zu Berlin, Germany</i>
[P3.068]	Effect of carbon precursors and pore expanding reagent on ordered mesoporous carbon for resorcinol removal B. Chao, L. Lin, M.I. Konggudinata, D. Gang*, <i>University Of Louisiana At Lafayette, USA</i>
[P3.069]	Surface modifications of ordered mesoporous carbons for adsorption of BTEX from aqueous solutions M.I. Konggudinata, B. Chao, Q. Lian, R. Subramaniam, D. Gang*, <i>University Of Louisiana At Lafayette, USA</i>
[P3.070]	Copper and Cobalt based PGMs-free nanocomposites of for automotive pollutants abatement. A. Garbujo* ¹ , Q. Xin ³ , M.M. Natile ² , J. Fabro ¹ , P. Cool ³ , P. Canu ¹ , A. Glisenti ¹ , ¹ <i>University of Padova, Italy</i> , ² <i>CNR-ICMATE, INSTM, Italy</i> , ³ <i>University of Antwerp, Belgium</i>
[P3.071]	Comparative estimation of bentonite sorption potential towards an oxazine dye and an antioxidant N. Georgieva*, Z. Yaneva, <i>Trakia University, Bulgaria</i>
[P3.072]	Activated carbon derived by steam-gas activation of fruit stones as α-tocopherol drug-carrier Z. Yaneva, N. Georgieva*, <i>Trakia University, Bulgaria</i>
[P3.073]	Synthesis of graphene decorated with metallic nanoparticles and their magnetic properties V.J. Gonzalez*, M.A. López de la Torre, J.P. Andrés, E. Vázquez, <i>Universidad Castilla La Mancha, Spain</i>
[P3.074]	Biom mineralization of FePO₄ using a peptide like template J.L. González-Cansino*, F. Reyes-Espinosa, L.I. Vera-Robles, A. Hernández-Arana, <i>Universidad Autónoma Metropolitana, Mexico</i>
[P3.075]	Biodegradable electrospun scaffolds, containing molecular iodine on the fibers surface S.I. Goreninskii* ¹ , K.S. Stankevich ¹ , N.V. Danilenko ¹ , E.N. Bolbasov ¹ , V.D. Filimonov ¹ , A.L. Nemoynkina ² , S.I. Tverdokhlebov ¹ , ¹ <i>Tomsk Polytechnic University, Russia</i> , ² <i>Tomsk State University, Russia</i>
[P3.076]	Biohybrid nanoparticles for directed enzyme prodrug therapy remotely triggered by magnetic hyperthermia S. Correa ¹ , T. Sierra ³ , L. Asín ³ , S. Puertas ² , L. Betancor ¹ , V. Grazu* ³ , ¹ <i>Universidad ORT Uruguay, Uruguay</i> , ² <i>Nanoimmunotech, Spain</i> , ³ <i>Aragon Materials Science Institute, Spain</i>
[P3.077]	Implantable polymer composite electrode with carbon nano fibers (CNF) aligned during thermal drawing as a reliable chronic neural interface Y. Guo* ^{1,2} , S. Jiang ² , B. Grena ³ , I. Kimbrough ² , Y. Fink ³ , H. Sontheimer ² , T. Yoshinobu ¹ , X. Jia ² , ¹ <i>Tohoku University, Japan</i> , ² <i>Virginia Tech, USA</i> , ³ <i>MIT, USA</i>
[P3.078]	Study the interaction between phospholipid based membranes and drugs by using neutron scattering method M. Gvaramia*, G. Mangiapia, H. Frielinghaus, <i>Juelich center of neutron science, Germany</i>
[P3.079]	Wearable fibrous lithium ion batteries S.H. Ha*, G.H. Lee, S.H. Kim, C.S. Lee, Y.J. Lee, <i>Hanyang University, Republic of Korea</i>
[P3.080]	Temperature Effect on Ni and/or Zn Carbonate Hydroxide based Nano composites Morphology and Structure N. Habib* ^{1,2} , O. Guellati ^{1,3} , A. Harat ¹ , A. Nait-Merzoug ² , D. Momodu ⁴ , J. Dangbegnon ⁴ , C. Pham-Huu ³ , N. Manyala ⁴ , D. Begin ³ , M. Guerioune ¹ , ¹ <i>Badji Mokhtar University of Annaba, Algeria</i> , ² <i>Mohamed Cherif Messadia University of SoukAhras, Algeria</i> , ³ <i>ICPEES Institut ECPM CNRS UdS, France</i> , ⁴ <i>University of Pretoria,</i>

	<i>South Africa</i>
[P3.081]	Porous silicon nanoparticles conjugated magnetite-chitosan-reduced graphene oxide nanoparticles H. Kong ¹ , X. Qu ^{2,3} , H. Zhang ^{2,4} , L. Qu ² , E. Makila ⁵ , J. Salonen ⁵ , H. Santos ⁴ , M. Hai ^{*1,2} , D. Weitz ² , ¹ University of Science and Technology Beijing, China, ² Harvard University, USA, ³ East China Normal University, China, ⁴ University of Helsinki, Finland, ⁵ University of Turku, Finland
[P3.082]	Plasmonic core-satellite nanostructures: Self-assembly, highly colloidal stability and reversible tuning of surface plasmon coupling F. Han ^{*1} , A. Soeriyadi ^{1,2} , Y. Zheng ^{1,2} , S. Vivekchand ^{1,2} , J. Gooding ^{1,2} , ¹ The University of New South Wales, Australia, ² Australian Centre for NanoMedicine, Australia, ³ ARC centre of Excellence in Convergent Bio-Nano Science and Technology, Australia
[P3.083]	A target functional design for highly efficient and stable cathodes for rechargeable Li-Ion batteries G. He [*] , I.P. Parkin, <i>University College London, UK</i>
[P3.084]	Oxidation of chalcopyrite and molybdenite with hydrogen peroxide and its application to their separation T. Hirajima [*] , H. Miki, G.P.W. Suyantara, H. Matsuoka, K. Sasaki, <i>Kyushu University, Japan</i>
[P3.085]	Synthesis, structural, and electrochemical properties of Na₃Fe₂(PO₄)₃ as positive electrode in sodium-ion batteries K. Hnini ^{*1,2} , A. Essoumhi ^{1,2} , S. Touzara ¹ , A. Chtaini ¹ , M. Sajieddine ¹ , ¹ Faculty of Science and technology, Morocco, ² Polydisciplinaire faculty, Morocco
[P3.086]	Rational design of triphenylphosphonium derivatives for enhanced mitochondrial uptake and photodynamic therapy Z. Hu [*] , Y. Sim, F. Garcia, E. Yeow, <i>Nanyang Technology University, Singapore</i>
[P3.087]	Facile synthesis of pure tetragonal zirconia nanoparticles using a modified salt-assisted ultrasonic spray pyrolysis Y. Hwangbo [*] , J.H. Yoo, Y.I. Lee, <i>Seoul National University of Science and Technology, Republic of Korea</i>
[P3.088]	Hybrid TiO₂ and ZrO₂-based materials: Properties and catalytic activity in organic pollutants degradation C. Imparato [*] , A. Aronne, P. Pernice, D. Pirozzi, L. Minieri, G. D'Errico, F. Sannino, <i>Università di Napoli Federico II, Italy</i>
[P3.089]	The effect of graphene flake size on the properties of graphene/polymer formulations and anti-corrosion performance O.M. Istrate ^{*1} , S.R. Gibbon ² , J. Moghal ³ , P.M. Budd ¹ , I.A. Kinloch ¹ , ¹ University of Manchester, UK, ² AkzoNobel Research Development & Innovation, UK, ³ CROWN Technology, UK
[P3.090]	Synthesis of core-shell mesoporous silicas: Shape and morphology control and study of the particle degradation J. Jamal [*] , S. Roig, A. Moragues, A. Beltrán, P. Amorós, <i>Institut de Ciència dels Materials de la Universitat de València, Spain</i>
[P3.091]	Fabrication of anticancer drug nanoparticles coated with BODIPY group-substituted PEG and their properties M. Tamada, Y. Ikuta, Y. Koseki, T. Onodera, H. Oikawa, H. Kasai [*] , <i>IMRAM, Tohoku University, Japan</i>
[P3.092]	Metal-organic RE complexes embedded in PMMA matrix - structural and luminescent properties of polymer-based composite materials A. Jusza ^{*1} , R. Lyszczek ² , M. Gil ² , P. Mergo ² , R. Piramidowicz ¹ , ¹ Warsaw University of Technology, Poland, ² Maria Curie-Skłodowska University, Poland
[P3.093]	Prospective nitrogen-doped carbon nanotubes with facile synthesis as bifunctional metal-free electrocatalysts for full water splitting F. Davodi, M. Tavakkoli, T. Kallio [*] , <i>Aalto University, Finland</i>
[P3.094]	Development of porous Ni-based electrode materials for alkaline water electrolysis C.H. Kim [*] , H.S. Cho, S.U. Jeong, K.S. Kang, W.C. Cho, C.S. Park, J.W. Kim, K.K. Bae, <i>Korea Institute of Energy Research, Republic of Korea</i>
[P3.095]	Preparation of co-doped RGO-Bi-TiO₂ nanotube composite for enhanced visible light activity S.R. KIM, I. ALI, J.O. KIM [*] , <i>Hanyang University, Republic of Korea</i>
[P3.096]	Synthesis and characterization of π-conjugated hyperbranched polypyridine T. Koga [*] , Y. Nabae, T. Hayakawa, M. Kakimoto, <i>Tokyo Institute of Technology, Japan</i>
[P3.097]	Characterization of the self-assembly of evaporation-assisted multiple-droplet depositions of carbon nanotubes H. Machrafi ^{*1,2} , G. Rius ³ , C. Minetti ¹ , V. Miskovic ¹ , P.C. Dauby ² , C.S. Iorio ¹ , ¹ Université libre de Bruxelles, Belgium, ² Université de Liège, Belgium, ³ Instituto de Microelectrónica de Barcelona, Spain
[P3.098]	Structure formation by self-assembly of carbon nanotubes, their composites and characterization V. Miskovic ¹ , C. Minetti ¹ , H. Machrafi ^{*1,2} , C.S. Iorio ¹ , ¹ Université libre de Bruxelles, Belgium, ² Université de

	<i>Liège, Belgium</i>
[P3.099]	Hybridization of inorganic nanosheets and metal-organic frameworks for efficient photocatalytic water splitting T.W. Kim*, H. Kim, <i>Korea Institute of Energy Research, Republic of Korea</i>
[P3.100]	The biofunctionality of microstructured silica coatings towards micro- and macrofouling communities in brackish environment P. Kersen* ¹ , T. Kangur ² , M. Järvekülg ² , K. Künnis-Beres ¹ , ¹ <i>Estonian Marine Institute, University of Tartu, Estonia</i> , ² <i>Laboratory of Physics of Nanostructures, Institute of Physics, University of Tartu, Estonia</i> , ³ <i>Institute of Marine Systems, Tallinn University of Technology, Estonia</i>
[P3.101]	Synthesis and characterization of small molecular organic semiconductors based on benzothienobenzothiophene derivatives for organic thin film transistors H. Kim*, C. Kim, <i>Sogang University, Republic of Korea</i>
[P3.102]	Magnetic properties of V substituted LiFePO₄ by the Mössbauer spectroscopy B.U. Ko* ¹ , J. Son ¹ , M.H. Kim ² , B.W. Lee ³ , C.S. Kim ¹ , ¹ <i>Koosin University, Republic of Korea</i> , ² <i>Dongjin Semichem Co., Ltd., Republic of Korea</i> , ³ <i>Hankuk University of Foreign Studies, Republic of Korea</i>
[P3.103]	Synthesis of hybrid polymer composites by combination of fused deposition modeling and severe plastic deformation V.A. Beloshenko ¹ , Y.E. Beygelzimer ¹ , Y.V. Voznyak ² , T.E. Konstantinova* ¹ , B.M. Savchenko ³ , ¹ <i>National Academy of Sciences of Ukraine, Ukraine</i> , ² <i>Polish Academy of Sciences, Poland</i> , ³ <i>Kyiv National University of Technology and Design, Ukraine</i>
[P3.104]	Surface molecular imprinting of simazine in the presence of polyacrylic acid Y.Y. Petrova*, Y.V. Ostroushko, A.S. Popkov, E.V. Kukhtenko, <i>Surgut State University, Russia</i>
[P3.105]	Molecular imprinted biopolymer on the surface of silica particles Y.Y. Petrova*, E.V. Bulatova, N.G. Tanykova, <i>Surgut State University, Russia</i>
[P3.106]	Thermal and photocatalytic oxidation of methanol using porous Au/WO₃ D.P. DePuccio ¹ , L. Ruiz-Rodríguez ² , E. Rodríguez-Castellón ² , J.M. López Nieto ² , P. Botella ² , C.C. Landry* ¹ , ¹ <i>University of Vermont, USA</i> , ² <i>Instituto de Tecnología Química (UPV-CSIC), Spain</i>
[P3.107]	Protein adsorption on MSNs using stochastic optical reconstruction microscopy (STORM): Spatial modelling and prostate cancer diagnostic test development A.M. Clements ¹ , C.M. Vidaurre ² , E.M. Rivero ² , C.D. Vera-Donoso ³ , P. Botella ² , C.C. Landry* ¹ , ¹ <i>University of Vermont, USA</i> , ² <i>Instituto de Tecnología Química (UPV-CSIC), Spain</i> , ³ <i>Hospital Universitario y Politécnico La Fe, Spain</i>
[P3.108]	Fabrication of LaCoO₃-SSZ composite cathode functional layer by electrochemically assisted deposition for solid oxide fuel cells S.B. Lee* ^{1,2} , S.U. Rehman ^{1,2} , R.H. Song ^{1,2} , J.W. Lee ^{1,2} , T.H. Lim ^{1,2} , S.J. Park ^{1,2} , ¹ <i>Korea University of Science and Technology (UST), Republic of Korea</i> , ² <i>Korea Institute of Energy Research, Republic of Korea</i>
[P3.109]	Growth of single crystal tungsten diselenide film by metal-organic chemical vapor deposition Y.B. Lee*, J.S. Lee, <i>Sookmyung Women's University, Republic of Korea</i>
[P3.110]	Polyamic acid/sol-gel silica nanohybrid colloids for electrophoretic deposition D.H. Lee*, Y. Bae, S.W. Han, D.P. Kang, <i>Korea Electrotechnology Research Institute, Republic of Korea</i>
[P3.111]	MOVED TO POSTER SESSION 1
[P3.112]	Cationic polymer-coated nanoparticles as pressure-inducible, self-healing bioadhesives for cartilage repair M. Lee*, M. Zenobi-Wong, <i>ETH Zürich, Switzerland</i>
[P3.113]	A novel bi-functional catalyst based on Co₃O₄ core – MnO₂ shell for rechargeable Li – air battery. Y.J. Lee*, D.H. Kim, S.H. Kim, S.H. Ha, Y.J. Lee, <i>Hanyang University, Republic of Korea</i>
[P3.114]	Zr-based MOFs with 1,10-phenanthroline linkers for copper-mediated catalytic reactions A. Lemeune*, S. Brandès, J. Michalak, A. Mitrofanov, <i>CNRS, France</i>
[P3.115]	Triazamacrocyclic functionalized metal-organic frameworks for selective CO₂ adsorption H. Feuchter, S. Brandès, Y. Rousselin, A. Lemeune*, <i>CNRS, France</i>
[P3.116]	Uv-induced disulfide formation and reduction for dynamic photopatterning L. Li*, W. Feng, A. Welle, P. Levkin, <i>Institute of Toxicology and Genetics, Karlsruhe Institute of Technology, Germany</i>
[P3.117]	Crystal and magnetic properties of Fe doped MnAs investigated by Mössbauer spectroscopy J.T. Lim* ¹ , H.T. Cho ¹ , J.C. Sur ² , E.J. Hahn ³ , C.S. Kim ¹ , ¹ <i>Kookmin University, Republic of Korea</i> , ² <i>Wonkwang University, Republic of Korea</i> , ³ <i>Suwon University, Republic of Korea</i>
[P3.118]	Re-healable polyimine thermosets: Polymer composition and moisture sensitivity P. Taynton, C. Zhu, S. Loob*, R. Shoemaker, J. Pritchard, W. Zhang, <i>University of Colorado Boulder, USA</i>

[P3.119]	Injectable polymeric-ceramic hybrid system for strontium local delivery to promote bone regeneration A.H. Lourenço* ¹ , N. Neves ¹ , C. Ribeiro-Machado ¹ , S.R. Sousa ¹ , M. Lamghari ¹ , C.C. Barrias ¹ , A. Trigo Cabral ¹ , M.A. Barbosa ^{1,2} , C.C. Ribeiro ¹ , ¹ Universidade do Porto, Portugal, ² Instituto Politécnico do Porto, Portugal
[P3.120]	Dye-sensitized solar cells counter electrode based on carbon nanomaterials A. Drygala, L.A. Dobrzanski, K. Lukaszewicz*, M. Prokopiuk vel Prokopowicz, M. Szindler, <i>Silesian University of Technology, Poland</i>
[P3.121]	Acid responsive nanogels self-assembled from peptide-therapeutics and P-glycoprotein inhibitor for reversing tumor resistance L.N. Lyu* ¹ , F. Liu ¹ , M. Hu ¹ , J. Mu ¹ , X.Y. Wang ² , H.L. Cheong ¹ , G. Liu ² , B.G. Xing ^{1,3} , ¹ Nanyang Technological University, Singapore, ² Xiamen University, China, ³ A*STAR, Singapore
[P3.122]	Nanoparticles solubilized in nonpolar media and their applications S.T. Madrahimov* ¹ , D.E. Bergbreiter ² , A. Bengali ¹ , ¹ Texas A&M University Qatar, Qatar, ² Texas A&M University, USA
[P3.123]	Multifunctional fluorescent nanoprobe composed of semiconductor II-VI quantum dots surface-modified with polysaccharides for biomedical applications H.S. Mansur*, A.A.P. Mansur, <i>Federal University of Minas Gera, Brazil</i>
[P3.124]	Surface engineering of silicon nitride with polydopamine M. Vega, G. Marcelo*, E.M. Martín del Valle, <i>Universidad de Salamanca, Spain</i>
[P3.125]	Development of nanoparticles thin film for super-resolution microscopy L. Marques*, R. Markus, T. Self, M. Clark, <i>University of Nottingham, UK</i>
[P3.126]	Hierarchical MOR through surfactant mediated methodology - Catalytic evaluation as bifunctional catalyst in short chain n-alkane hydroisomerization V. Neves ¹ , D. Ottaviani ² , A.P. Carvalho ³ , A. Martins* ^{1,3} , ¹ Instituto Superior de Engenharia de Lisboa, Instituto Politécnico de Lisboa, Portugal, ² University of Rome, Italy, ³ Universidade de Lisboa, Portugal
[P3.127]	Manufacturing and properties of hierarchical graphitic structures for the application as supercapacitors J. Marx*, S. Garlof, H. Beisch, P. Huber, G. Schneider, B. Fiedler, <i>Hamburg University of Technology, Germany</i>
[P3.128]	Hydrothermal synthesis of TiO₂-SnO₂ heterostructures applied to the gas sensors A. Marzec*, Z. Pedzich, <i>AGH - University of Science and Technology, Poland</i>
[P3.129]	Preparation of zirconia nanoparticle dispersion using dual-site silane coupling agents and their application to hybrid thin films K. Matsukawa* ¹ , A. Sasaki ¹ , K. Mitamura ² , S. Watase ² , H. Imoto ¹ , K. Naka ¹ , ¹ Kyoto Institute of Technology, Japan, ² Osaka Municipal Technical Research Institute, Japan
[P3.130]	Hybrid polysiloxane sorption materials carrying thiourea functional groups I.V. Melnyk* ^{1,2} , G.I. Nazarchuk ² , M. Vaclavikova ¹ , G.A. Seisenbaeva ³ , V.G. Kessler ³ , ¹ Institute of Geotechnics, Slovakia, ² Chuiko Institute of Surface Chemistry, Ukraine, ³ Swedish University of Agricultural Sciences, Sweden
[P3.131]	Synthesis and characterization of carbon aerogels as active material for double layer capacitors B. Milow*, M. Schwan, D-W. Park, K.A. Friedrich, <i>German Aerospace Center, Germany</i>
[P3.132]	Development of porous heterogeneous metallo-complex catalysts based on titania A. Mitrofanov* ¹ , A. Lemeune ² , S. Brandes ² , R. Guillard ² , I. Beletskaya ¹ , ¹ Moscow State University, Russia, ² ICMUB, France
[P3.133]	Functional ion gels for flexible electrochemical displays H.C. Moon, <i>University of Seoul, Republic of Korea</i>
[P3.134]	Soft but smart: co-non-solvency based design of multi-responsive nano-materials D. Mukherji* ¹ , M.D. Watson ² , M. Wagner ¹ , C.M. Marques ³ , K. Kremer ¹ , ¹ Max Planck Institute for Polymer Research, Germany, ² University of Kentucky, USA, ³ Institut Charles Sadron, University of Strasbourg, CNRS, France
[P3.135]	Aggregation-free small intermetallic nanoparticle on ordered mesoporous carbon support for highly active and durable electrocatalyst in fuel cell Y. Mun*, J. Lee, <i>Pohang University of Science and Technology (POSTECH), Republic of Korea</i>
[P3.136]	Synthesis and characterization of properties of hybrid nanoparticles based on metal oxides T.E. Konstantinova, O.A. Gorban, I.A. Danilenko, I.I. Bryukhanova, A.V. Shylo, O.G. Myloslavskyy*, <i>Donetsk Institute for Physics and Engineering named after A.A.Galkin, National Academy of Sciences of Ukraine, Ukraine</i>
[P3.137]	Flexible graphite-like carbon micro-pinecone array humidity sensors T. Nakajima*, T. Nakamura, T. Tsuchiya, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>

[P3.138]	WO₃ nanosponge photoanodes with high applied bias photon-to-current efficiency for solar hydrogen and peroxydisulfate production T. Nakajima*, A. Hagino, T. Nakamura, T. Tsuchiya, K. Sayama, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
[P3.139]	Photodynamic anticancer activities of multifunctional cobalt ferrite nanoparticles in various cancer cells K.C. Nam* ¹ , K.H. Choi ² , H.C. Ji ¹ , J.C. Park ³ , B.J. Park ² , ¹ Dongguk University, Republic of Korea, ² Kwangwoon University, Republic of Korea, ³ Yonsei University, Republic of Korea
[P3.140]	Three-dimensional TiO_{2-x} ceramic foams as biocompatible and conductive scaffolds for bone tissue regeneration I. Narkevica* ¹ , L. Stipniece ¹ , E. Jakobsons ² , I. Cakstina ³ , J. Ozolins ¹ , ¹ Riga Technical University, Latvia, ² Pauls Stradins Clinical University Hospital, Latvia, ³ Riga Stradins University, Latvia
[P3.141]	Effect of the simulated body fluid on natural rubber-calcium phosphate hybrid material R.M. Nascimento* ¹ , A.J. Paula ² , N.C. Oliveira ² , V.T. Noronha ² , V.M. Saboia ² , J.E.F.S. Rodrigues ¹ , A.C. Hernandez ¹ , ¹ University of Sao Paulo, Brazil, ² Universidade federal do Ceara, Brazil
[P3.142]	Effect of functionalized multi walled carbon nanotubes on pathological calcium oxalate (CaOx) mineralization through <i>in vitro</i> electrocrystallization technique A. Neira-Carrillo*, A. Vargas-Faernandez, M. Yazdani-Pedram, <i>Universidad de Chile, Chile</i>
[P3.143]	A theoretical study on the electronic properties of Cu₂O-graphene sheet for detection of NO₂ A.R. Nekoei*, P.M. Khoshouei, <i>Shiraz University of Technology, Iran</i>
[P3.144]	Structuring of alkyl-triazole bridged silsesquioxanes S.C. Nunes* ¹ , G. Toquer ² , A. Mayoral ⁴ , R.A.S. Ferreira ⁵ , L. Carlos ⁵ , P. Ferreira ⁵ , P. Almeida ¹ , X. Cattoën ⁶ , M. Wong Chi Man ⁷ , V. de Zea Bermudez ³ , ¹ University of Beira Interior, Portugal, ² Institut de Chimie Séparative de Marcoule, France, ³ University of Trás-os-Montes e Alto Douro, Portugal, ⁴ Universidad de Zaragoza, Spain, ⁵ University of Aveiro, Portugal, ⁶ University Grenoble Alpes, France, ⁷ Institut Charles Gerhardt Montpellier, France
[P3.145]	Biopolymer-based materials based on Eu(III) and Li(I) co-doped sulphated acid polysaccharide S.C. Nunes* ⁴ , R.F.P. Pereira ¹ , R.A.S. Ferreira ³ , L.D. Carlos ³ , M.M. Silva ¹ , P. Almeida ⁴ , V. de Zea Bermudez ² , ¹ University of Minho, Portugal, ² University of Trás-os-Montes and Alto Douro, Portugal, ³ University of Aveiro, Portugal, ⁴ University of Beira Interior, Portugal
[P3.146]	Electrochemical characteristics of potassium-doped wüstite/graphene nanocomposites for lithium ion battery anode D.J. Jung, J.J. Jeong, S.S. See, E.O. Oh*, <i>University of Ulsan, Republic of Korea</i>
[P3.147]	Development of medical implants by a protective TiC/a:C surface thin film N. Oláh* ¹ , M. Furkó ¹ , Z. Fogarassy ¹ , J. Szívós ¹ , A. Sulyok ¹ , T. Csanádi ² , K. Balázi ¹ , ¹ Institute for Technical Physics and Materials Science, Hungary, ² Institute for Materials Research, Slovakia
[P3.148]	Ln(III)-doped ZrO₂ and Y₂O₃ core@multishell nanoparticles for white light emission C.S. Oliveira* ¹ , J. Bettini ² , F.A. Sigoli ¹ , I.O. Mazali ¹ , ¹ UNICAMP, Brazil, ² LNNano, Brazil
[P3.149]	Fabrication of hybrid organic-inorganic materials with tunable porosity for catalytic application M. Opanasenko* ^{1,2} , M. Shamzhy ¹ , ¹ Academy of Sciences of Czech Republic, Czech Republic, ² Charles University in Prague, Czech Republic
[P3.150]	Functionalized PLGA nanoparticles as potential carriers for a PET radiotracer N. Osipova* ¹ , Y. Ermolenko ¹ , S. Mantrov ¹ , E. Shipulo ¹ , L. Vanchugova ¹ , O. Maksimenko ¹ , M. Gorshkova ² , S. Gelperina ¹ , ¹ Drugs Technology LLC, Russia, ² Topchiev Institute of Petrochemical Synthesis, Russia
[P3.151]	Mesoporous multiple spin-coated titania films for nitrate removal from drinking water H. Oveisi, <i>Hakim Sabzevari University, Iran</i>
[P3.152]	ALUMINUM foams: closed-cell towards open-cell microstructures H. Oveisi, <i>Hakim Sabzevari University, Iran</i>
[P3.153]	SYNTHESIS of silver micro-nano particles with different morphologies and low resistivity for conductive adhesive application R. Rajaeian, H. Oveisi*, <i>Hakim Sabzevari University, Iran</i>
[P3.154]	Photoacoustic detection of circulating tumor cells with magneto-plasmonic nanoparticles J.G. Ovejero* ¹ , S.J. Noon ² , J. Li ² , M.A. Garcia ^{1,3} , P. Herrasti ⁴ , A. Hernando ¹ , X. Gao ² , M. O'Donnell ² , ¹ Institute of Applied Magnetism UCM-ADIF, Spain, ² University of Washington, USA, ³ Institute of Ceramic and Glass, Spain, ⁴ University Autonomous of Madrid, Spain
[P3.155]	Real-time analysis of enzymatic degradation of nanofibrillated cellulose hydrogel used as 3D cell culture matrix L. Paasonen* ^{1,2} , J. Karppinen ¹ , J. Niklander ¹ , T. Oksanen ¹ , M. Yliperttula ¹ , ¹ University of Helsinki, Finland, ² UPM kymmene, Finland

[P3.156]	Nanocomposite films based on waterborne polyurethane, few layer graphene and carbon nanotubes M.C. Paiva* ¹ , E. Cunha ¹ , M.F. Proença ² , ¹ Universidade do Minho, IPC/i3N, Portugal, ² Universidade do Minho, CQ, Portugal
[P3.157]	Cerium/iron oxide magnetic nanocomposite as sorbent for removal of Eriochrome black T M. Pakdaman*, F. Honarasa, <i>Islamic Azad University, Iran</i>
[P3.158]	Preparation a chitosan/glutaraldehyde-based support for lipase immobilization applied in organic synthesis D. Weber ^{1,2} , M.G. Nascimento ¹ , A.L. Parize* ² , ¹ Laboratório de Biocatálise - Departamento de Química - Universidade Federal de Santa Catarina, Brazil, ² Polimat - Departamento de Química - Universidade Federal de Santa Catarina, Brazil
[P3.159]	Preparation an ionically crosslinked chitosan support for Burkholderia cepacia lipase immobilization applied in organic synthesis D. Weber ^{1,2} , M.G. Nascimento ¹ , A.L. Parize* ² , ¹ Laboratório de Biocatálise - Departamento de Química - Universidade Federal de Santa Catarina, Brazil, ² Polimat - Departamento de Química - Universidade Federal de Santa Catarina, Brazil
[P3.160]	Molecular orientation controlled growth of uniformly aligned polyurea thin films by molecular layer deposition Y-S. Park*, J.S. Lee, <i>Sookmyung Women's University, Republic of Korea</i>
[P3.161]	Intense pulsed white light (IPWL)-assisted fabrication of Co-CoOx nanoflakes on graphite felt for all-solid-state flexible hybrid supercapacitors C. Park*, J. Hwang, H-T. Hwang, H-S. Kim, H. Ahn, <i>Hanyang University, Republic of Korea</i>
[P3.162]	Local thermal study of nanocomposite materials with complex inhomogeneities by scanning thermal microscopy M.J. Pereira* ¹ , J.S. Amaral ¹ , N.O. Silva ¹ , V.S. Amaral ¹ , J.M. Campos ¹ , M.R. Ribeiro ¹ , A. Barros-Timmons ¹ , ¹ Universidade de Aveiro, Portugal, ² Universidade de Lisboa, Portugal
[P3.163]	Polymer coating of Au nanoparticles envisaging biosensing applications S.O. Pereira*, T. Trindade, A. Barros-Timmons, <i>University of Aveiro, Portugal</i>
[P3.164]	Copper loaded LaNiO3 nanocomposites: advanced perovskite functionalization for PGM-free TWC G. Perin* ¹ , Q. Xin ² , J. Fabro ¹ , M.M. Natile ³ , P. Cool ² , P. Canu ¹ , A. Glisenti ^{1,3} , ¹ University of Padova, Italy, ² University of Antwerpen, Belgium, ³ CNR-IENI, Italy
[P3.165]	Catalytically active nanocomposite films by co-assembly of silica precursor and metal-loaded block-copolymer systems K. Peter*, R. Wambach, M. Möller, <i>DWI-Leibniz-Institut for Interactive Materials e.V., Germany</i>
[P3.166]	Complex polymer architectures as templates for nanoparticles synthesis Y. Zhang, W. Raj, J. Pietrasik*, K. Matyjaszewski, <i>Lodz University of Technology, Poland</i>
[P3.167]	Polymer nanocomposites doped with RE³⁺ ions for applications in VIS light sources R. Piramidowicz* ¹ , A. Jusza ¹ , K. Anders ¹ , L. Lipinska ^{1,2} , M. Gil ^{1,3} , P. Mergo ^{1,3} , ¹ Warsaw University of Technology, Poland, ² Institute of Electronic Materials Technology, Poland, ³ Maria Curie-Skłodowska University, Poland
[P3.168]	The ormosil encapsulated living cells: Self-organized 3D-architecture of bio-hybrid materials from sol-gel chemistry O.N. Ponamoreva* ¹ , O.A. Kamanina ¹ , A.V. Machulin ² , V.A. Alferov ¹ , E.P. Ivanova ³ , ¹ Tula State University, Russia, ² Russian Academy of Sciences, Russia, ³ Swinsburne University of Technology, Australia
[P3.169]	Mechanochemical driven transformations of predesigned oxo-zinc precursors to IRMOFs D. Prochowicz* ¹ , J. Nawrocki ¹ , J. Lewiński ^{1,2} , ¹ Institute of Physical Chemistry, Poland, ² Warsaw University of Technology, Poland
[P3.170]	Delayed chloramphenicol release through encapsulation of hydroxyapatite nanoparticles containing the drug into polylactide nanofibers M. Rivas ¹ , M. Pelecha ¹ , L. Franco ¹ , L.J. del Valle ¹ , P. Turon ¹ , C. Alemán ¹ , J. Puiggali* ¹ , ¹ Universitat Politècnica de Catalunya, Spain, ² B. Braun Surgical S.A., Spain
[P3.171]	Preparation of porous polylactide scaffolds by means of ultrasonic micro-molding technology C. Olmo, A. Vidal, L. Franco, L.J. del Valle, J. Puiggali*, <i>Universitat Politècnica de Catalunya, Spain</i>
[P3.172]	The use of multinuclear oxo-titanium(IV) complexes in formation of nanocomposites based on polystyrene P. Piszczek ^{1,2} , A. Radtke* ^{1,2} , M. Janek ¹ , ¹ Nicolaus Copernicus University, Poland, ² Nano-implant Ltd., Poland
[P3.173]	Biocompatible surfaces of modern surgical implants composed of TiO₂ nanotubes and nanowires enriched with tailored ALD silver nanograins A. Radtke* ^{1,2} , P. Piszczek ^{1,2} , A. Topolski ¹ , T. Jedrzejewski ³ , B. Sadowska ⁴ , M. Makela ⁵ , M. Leskela ⁵ , ¹ Nicolaus Copernicus University, Poland, ² Nano-implant Ltd., Poland, ³ Nicolaus Copernicus University, Poland,

	⁴ University of Lodz, Poland, ⁵ University of Helsinki, Finland
[P3.174]	Transesterification of cashew nut oil using butanol and mesoporous silica catalyst A.F.J. Uchoa, C.P. Valle, M.W. Anderson, S.A. Soares, N.M. Ricardo*, <i>Federal University of Ceará, Brazil</i>
[P3.175]	Processing and characterization of starch-based bionanocomposites reinforced with different nanoclays M. Rico*, I. Derung, J. López, R. Bouza, B. Montero, L. Barral, <i>University of A Coruña, Spain</i>
[P3.176]	Improving docetaxel performance by targeted delivery to prostate cancer cells with anti-PSMA labeled mesoporous silica nanoparticles E.R.B. Rivero-Buceta* ¹ , C.D.V.D. Vera-Donoso ² , J.F.M. Font De Mora ³ , V.M. Moreno ⁴ , P.B. Botella ¹ , ¹ <i>Instituto de Tecnología Química, Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, Spain</i> , ² <i>Hospital Universitario y Politécnico La Fe, Spain</i> , ³ <i>Instituto de Investigación Sanitaria La Fe, Spain</i> , ⁴ <i>Centro de Investigación Príncipe Felipe, Spain</i>
[P3.177]	On the transfer of vertically-aligned carbon nanotubes onto electrospun fibers: A feasible way to produce highly flexible and multi-responsive 3D electrodes B.V.M. Rodrigues*, C.A. Razzino, F.R. Marciano, A.O. Lobo, <i>University of Vale do Paraiba, Brazil</i>
[P3.178]	“Green” approaches to produce fluorescent ultrathin fibers from the electrospinning of poly (vinyl alcohol) and water-soluble graphene quantum dots B.V.M. Rodrigues*, T.S. Cabral, F.R. Marciano, A.O. Lobo, <i>University of Vale do Paraiba, Brazil</i>
[P3.179]	Synthesis of nanostructured micro/nano-porous carbon nanoforms-based functional materials using SPS method E.R. Kutelia*, N.V. Jalabadze, L.N. Rukhadze, T.A. Dzigrashvili, O.O. Tsurtsunia, T.G. Kukava, <i>Georgian Technical University, Georgia</i>
[P3.180]	An affinity triggered mri nanoprobe for pH-dependent S.I.C.J. Palma ¹ , A. Fernandes ² , A.C.A. Roque* ¹ , ¹ <i>Universidade NOVA de Lisboa, Portugal</i> , ² <i>Universidade de Lisboa, Portugal</i>
[P3.181]	Hybrid joining between polyamide and hydrogenated acrylonitrile butadiene rubber utilizing functional layer of silane coupling agent J. Sang* ¹ , R. Sato ¹ , S. Aisawa ¹ , H. Hirahara ¹ , K. Mori ^{1,2} , ¹ <i>Iwate University, Japan</i> , ² <i>Sulfur Chemical Institute, Japan</i>
[P3.182]	pH-Responsive magnetism of iron(II) complexes in solution and under small confinement R. Nowak*, B. Weber, <i>University of Bayreuth, Germany</i>
[P3.183]	Recycling of amine-functionalized silica materials for CO₂ adsorption E.S. Sanz-Pérez, A. Arencibia, G. Calleja, R. Sanz*, <i>Universidad Rey Juan Carlos, Spain</i>
[P3.184]	Multifunctional binary and ternary epoxy resin nanocomposites P. Sgarbossa* ¹ , R. Bertani ¹ , A. Bartolozzi ¹ , M. Monsif ³ , M. Quaresimin ¹ , S. Tamburini ² , M. Zappalorto ¹ , F. Zorzi ¹ , F. Tateo ² , ¹ <i>University of Padova, Italy</i> , ² <i>National Council of Research, Italy</i> , ³ <i>University Sidi Mohammed Ben Abdellah of Fes, Morocco</i>
[P3.185]	Application of Fe^{III}-tannic acid complexes in modifying aqueous acrylic latex for controlled release coated urea Y.Z. Shen*, C.W. Du, J.M. Zhou, F. Ma, <i>Chinese Academy of Sciences, China</i>
[P3.186]	Fluorescent biosensors from self-assembly of 1,8-naphthalimide (NI)/peptide conjugates N. Shih*, Y. Lin, H. Lin, <i>Department of Materials Science and Engineering, NCTU, R.O.C, Taiwan</i>
[P3.187]	Robust metal-organic frameworks nanoparticles: From their synthesis to their potential applications C. Sicard* ¹ , E. Gkaniatsou ¹ , N. Kumar ¹ , F. Nouar ² , N. Steunou ¹ , C. Serre ² , ¹ <i>Université de Versailles St-Quentin-en-Yvelines, France</i> , ² <i>FRE CNRS ENS-ESPCI, France</i>
[P3.188]	Towards the development of multifunctional chitosan-based iron oxide nanoparticles: Controlled drug delivery and magnetic hyperthermia studies P.I. Soares* ¹ , I. Ferreira ¹ , C. Novo ² , J.P. Borges ¹ , ¹ <i>i3N/CENIMAT, FCT-UNL, Portugal</i> , ² <i>IHMT-UNL, Portugal</i>
[P3.189]	Confinement of thermoresponsive microgels into fibres via colloidal electrospinning: Optimization of the polymer fibre template S. Marques, P.I. Soares*, C. Echeverria, J.P. Borges, <i>i3N/CENIMAT, FCT-UNL, Portugal</i>
[P3.190]	Zeolites synthesis from fly ash and its application on warm mix asphalt B.C. Amoni, J.B. Soares, N.M.P. Ricardo, S.A. Soares*, A.R. Loyola, <i>Federal University of Ceará, Brazil</i>
[P3.191]	Dispersion and localisation behaviour of modified MWCNTs in polystyrene and polybutadiene and their corresponding blends U. Staudinger*, L. Jakisch, L. Hilbig, <i>Leibniz-Institut für Polymerforschung Dresden e.V., Germany</i>
[P3.192]	Molecular nanoclusters for electrochemical energy storage U. Stimming*, J. Friedl, <i>Newcastle University, UK</i>

[P3.193]	Mg-releasing calcium phosphates bioceramic for bone regeneration L. Stipniece* ¹ , K. Salma-Ancane ¹ , I. Narkevica ¹ , E. Jakobsons ² , ¹ Riga Technical University, Latvia, ² Pauls Stradins Clinical University Hospital, Latvia
[P3.194]	Extended defects in UiO-66: Structure, thermodynamics and electronic response K.L. Svane* ¹ , J.K. Bristow ² , A. Walsh ³ , ¹ University of Bath, UK, ² University of Liverpool, UK, ³ Imperial College London, UK
[P3.195]	Electrochemical synthesis of high performance tungsten sulfide for hydrogen evolution reaction S.M. Tan*, M. Pumera, Nanyang Technological University, Singapore
[P3.196]	The synthesis and molecular self-assembly of fluorophors based on pyrene O.S. Taniya* ¹ , I.S. Kovalev ¹ , N.V. Slovesnova ^{1,2} , S. Santra ^{1,4} , D.S. Kopchuk ^{1,3} , G.V. Zyryanov ^{1,3} , A. Majee ⁴ , V.N. Charushin ^{1,3} , O.N. Chupakhin ^{1,3} , ¹ Ural Federal University, Russia, ² Ural State Medical Academy of the Ministry of Health of the Russian Federation, Russia, ³ Ural Division of the Russian Academy of Sciences, Russia, ⁴ Visva-Bharati, India
[P3.197]	New stable precursors for aryne intermediates O.S. Taniya* ¹ , D.E. Pavlyuk ¹ , I.S. Kovalev ¹ , D.S. Kopchuk ^{1,2} , S. Santra ^{1,3} , R. Matiur ^{1,3} , G.V. Zyryanov ^{1,2} , A. Majee ^{1,3} , V.N. Charushin ^{1,2} , ¹ Ural Federal University, Russia, ² Ural Division of the Russian Academy of Sciences, Russia, ³ Visva-Bharati (A Central University), India
[P3.198]	Antimicrobial thin film formation on flexible surfaces for potential biosensor applications T. Tas* ¹ , B. Akata-Kurc ^{1,2} , ¹ Middle East Technical University, Turkey, ² Central Laboratory, Middle East Technical University, Turkey
[P3.199]	Biomimetic auto-hydrating CaCl₂ implant surfaces: Mechanisms leading to tissue regeneration R. Tejero* ¹ , E. Anitua ¹ , M.A. Pachá ² , M.C. Fernández ² , M. Troya ¹ , M. Zalduendo ¹ , M.L. González ² , ¹ BTI Biotechnology Institute, Spain, ² University of Extremadura, Spain
[P3.200]	SubPc based non-fullerene OPV devices with improved stability and performance H. Thachoth Chandran*, J. Qing, M-F. Lo, C-S. Lee, City University of Hong Kong, Hong Kong
[P3.201]	Hybrid nanocomposites form starch- starch blends and nanoparticles O.P. Troncoso*, F.G. Torres, Pontificia Universidad Catolica del Peru, Peru
[P3.202]	Small molecules activation as a powerful tool in the synthesis of porous materials A. Tulewicz* ¹ , M. Wolska-Pietkiewicz ¹ , I. Justyniak ² , J. Lewiński ^{1,2} , ¹ Warsaw University of Technology, Poland, ² Institute of Physical Chemistry, Poland
[P3.203]	Poly(2-hydroxyethyl methacrylate) brushes synthesized by ATRP from gold surface for application as a gate dielectric in OTFTs E. Krysiak ¹ , L. Janasz ¹ , B.G.R. Dupont ¹ , A. Wypych-Puszkarz ¹ , K. Matyjaszewski ^{1,2} , J. Ulanski* ¹ , ¹ Lodz University of Technology, Poland, ² Carnegie Mellon University, USA
[P3.204]	Plasma synthesis and treatment for obtaining functional hybrid nanomaterials S. Vizireanu* ¹ , S.D. Stoica ¹ , M.D. Ionita ¹ , A. Lazea-Stoyanova ¹ , L. Nistor ² , G. Dinescu ¹ , ¹ National Institute for Laser, Plasma and Radiation Physics, Romania, ² National Institute for Material Physics, Romania
[P3.205]	Visualizing the crystallization of soft colloids in real time J. Wang*, E.K.L. Yeow, Nanyang Technological University, Singapore
[P3.206]	Toward high-quality quantum sized-ZnO NCs: the superiority of a novel organometallic approach over the inorganic sol-gel procedure M. Wolska-Pietkiewicz* ¹ , A. Grala ² , I. Justyniak ² , J. Lewiński ^{1,2} , ¹ Warsaw University of Technology, Poland, ² Institute of Physical Chemistry Polish Academy of Sciences, Poland
[P3.207]	Enhanced stability and controllability of an ionic diode based on funnel-shaped nanochannels K. Xiao*, L. Jiang, Institute of Chemistry, Chinese Academy of Sciences, China
[P3.208]	VOC adsorption characteristics of the zeolite coated honeycomb adsorbents Y.J. Yoo*, H.S. Kim, M.W. Cho, D.C. Ahn, K. Ohlen, B.B. Lim, H.J. Lee, Korea Institute of Energy Research, Republic of Korea
[P3.209]	Density Functional Theory (DFT) study of electrical CO₂ conversion on the nanoporous copper foam material S.H. Yoon* ¹ , H.Y. Park ² , A. Abdel-Wahab ¹ , D.S. Han ¹ , ¹ Texas A&M University at Qatar, Qatar, ² Kyungpook National University, Republic of Korea
[P3.210]	Synthesis of mesoporous silica aerogel powders using water-glass under ambient pressure drying and its combination with blanket L. Sangeun ¹ , G. Hyein ² , H. Changkook ² , C. Churlhee ³ , L. Jinseok ¹ , A. Youngsoo* ¹ , ¹ Korea Institute of Energy Research, Republic of Korea, ² Chonnam National University, Republic of Korea, ³ Chungnam National University, Republic of Korea

[P3.211]	Spirally wound aligned carbon nanotube sheets for flexible and weaveable fiber-shaped optoelectronic devices Z. Zhang*, H. Peng, <i>Fudan University, China</i>
[P3.212]	Design of a drug delivery model based on silk fibroin particles for colo-rectal cancer therapy P. Stanescu*, I. Radu, E. Vasile, C. Zaharia, B. Galateanu, A. Hudita, H. Iovu, <i>University Politehnica of Bucharest, Romania</i>
[P3.213]	Improved bioavailability of mitotane liposomes for adrenal cortical carcinoma C. Sousa ¹ , M.C. Teixeira ¹ , P. Zancanella ² , A.C.B. Vasconcelos ³ , P. Rezende ³ , P.A.L. Lima ³ , B.H. Oliveira ² , B.C. Figueiredo ⁴ , M.H.A. Santana ⁵ , P. Severino ³ , S.B. Souto ¹ , E.B. Souto* ¹ , ¹ <i>University of Coimbra (FFUC), Portugal</i> , ² <i>Federal University of Paraná, Brazil</i> , ³ <i>University of Tiradentes, Brazil</i> , ⁴ <i>Research Institute "Pelé Pequeno Príncipe", Brazil</i> , ⁵ <i>University of Campinas, Brazil</i> , ⁶ <i>Hospital de Braga, Portugal</i>
[P3.214]	Ibuprofen nanocrystals: production, characterization and cytotoxicity A.R. Fernandes ¹ , A.C. Santos ^{1,2} , F.J. Veiga ^{1,3} , A.M. Silva ^{4,5} , C. Cabral ^{1,6} , E.B. Souto* ^{1,5} , ¹ <i>University of Coimbra, Portugal</i> , ² <i>Institute for Molecular and Cell Biology, Portugal</i> , ³ <i>REQUIMTE/LAQV, Portugal</i> , ⁴ <i>University of Trás-os-Montes e Alto Douro, Portugal</i> , ⁵ <i>Centre for Research and Technology of Agro-Environmental and Biological Sciences, Portugal</i> , ⁶ <i>CNC.IBILI, Portugal</i>
[P3.215]	Fast and reproducible wettability switching on functionalized PVDF/PMMA surface controlled by external electric field O.A. Guselnikova* ^{1,2} , J. Svanda ¹ , P. Postnikov ² , Y. Kalachyova ^{1,2} , V. Svorcik ¹ , O. Lyutakov ^{1,2} , ¹ <i>Institute of Chemical Technology, Prague, Czech Republic</i> , ² <i>Tomsk Polytechnic University, Russia</i>
[P3.216]	Functional hard coatings with metal buffer layer on Si by sputtering Y.S. Song* ^{1,2} , S.C. Lim ¹ , J.R. Kim ² , ¹ <i>KITECH(Korea Institute of Industrial Technology), Republic of Korea</i> , ² <i>Hanyang University, Republic of Korea</i>
[P3.217]	Functionalized Polyhedral Oligomeric Silsesquioxane (POSS) based coatings with multi- level corrosion protection J. Yang ¹ , G. Breuil ¹ , N. Rival ¹ , C.R. Simon* ¹ , A. Lacau ¹ ¹ <i>SINTEF, Norway</i> , ² <i>HYDRO Aluminium Rolled Products AS, Norway</i>
[P1.211]	Synthesis of hyperbranched aromatic poly(ether ketone) and its application in catalysis material K. Yamamoto*, Y. Shi, Y. Nabaie, T. Hayakawa, M. Kakimoto, <i>Tokyo Institute of Technology, Japan</i>