

Oral Programme

Monday, 6 March 2017

11:00-14:00	Registration Room: <i>Pavilhão do Rio Foyer</i>				
<i>Room</i>	<i>Auditorium I</i>				
14:00 -14:15	Welcome – R. Duhlev, <i>Conference Co-Chair, UK</i>				
14:15-15:00	<i>Session chair: Maurizio Prato</i> PLENARY LECTURE: [PLN01] Carbon Materials for the Future R.S. Ruoff, <i>Ulsan National Institute of Science & Technology, Republic of Korea</i>				
<i>Rooms</i>	<i>Auditorium II</i>	<i>Auditorium I</i>	<i>Auditorium VI</i>	<i>Auditorium VII</i>	<i>Auditorium VIII</i>
15:00-16:00	Symposium A <i>Session Chair: Francisco Fernandes</i>	Symposium B <i>Session Chair: Kazuki Nakanishi</i>	Symposium C	Symposium B1 <i>Session Chair: Louis de Smet</i>	Symposium ABC <i>Session Chair: Giuliana Beck</i>
15:00-15:20	15:00-15:20 [SYM1.01] The fascinating intrinsic blue fluorescence of PAMAM dendrimers and their biomedical applications C.S. Camacho ¹ , M. Urgellés ² , H. Tomás ¹ , F. Lahoz ² , J. Rodrigues* ¹ ¹ <i>Universidade da Madeira, Portugal, </i> ² <i>Universidad de La Laguna, Spain</i>	15:00-15:30 FEATURED TALK: [SB-IN01] Towards functional "Exotic" nanoparticles Clément Sanchez, <i>Collège de France, Paris, France</i>	15:00-15:20 [SYM3.01] Luminescent MOF as biosensor J. Canivet* ^{1,2} , A. Legrand ^{1,2} , V. Lysenko ^{1,3} , A. Geloën ^{1,3} , E.A. Quadrelli ^{1,2} , D. Farrusseng ^{1,2} ¹ <i>CNRS, France, </i> ² <i>UCBL-Université Lyon, France, </i> ³ <i>INSA Lyon, France</i>	15:00-15:20 [SYM4.01] Multifunctional nanohybrids for single-molecule investigations M. Palma <i>Queen Mary University of London, UK</i>	15:00-15:20 [SYM5.01] Direct observation of collective behavior of adsorbates in porous crystal through in-situ adsorption X-ray scattering H. Deng ² , J.K. Kang ¹ , O.M. Yaghi ^{3,4} , O. Terasaki ^{1,5} , H.S. Cho* ¹ ¹ <i>Water and Sustainability, Republic of Korea, </i> ² <i>Wuhan University, China, </i> ³ <i>University of California, USA, </i> ⁴ <i>King Fahd University of Petroleum and Minerals, Saudi Arabia, </i> ⁵ <i>Stockholm University, Sweden</i>
15:20-15:40	15:20-15:40 [SYM1.02] Predatory behaviour in synthetic protocell communities Y. Qiao* ^{1,2} , R. Booth ^{1,2} , M. Li ^{1,2} , S. Mann ^{1,2} ¹ <i>Centre for Protolife Research and Centre for Organized Matter Chemistry, UK, </i> ² <i>University of</i>	15:30-16:00 FEATURED TALK: [SB-IN02] Polymer melts in nanoscale confinement: Polymer nanocomposites and cylindrical nanopores Karen Winey, <i>University of Pennsylvania, USA</i>	15:20-15:40 [SYM3.02] Unraveling the synthesis mechanism of mesoporous silica through multiscale modelling G. Pérez-Sánchez* ¹ , S-C. Chien ² , J.R.B. Gomes ¹ , N. Cordeiro ⁴ , S. Auerbach ³ , P. Monson ³ , M. Jorge ⁵ ¹ <i>Universidade de Aveiro,</i>	15:20-15:40 [SYM4.02] Accurate calculation of host-guest interaction energies: The balance of electrostatic and dispersion terms M. Cossi*, A. Fraccarollo, L. Canti, L. Marchese <i>Università del Piemonte</i>	15:20-15:40 [SYM5.02] Synthesis of anionic microporous polymeric networks through polymerisation of weakly coordinating anions N. Chaoui*, M. Trunk, J. Schmidt, A. Thomas <i>Technische Universität Berlin, Germany</i>

	Bristol, UK		Portugal, ² The Ohio State University, USA, ³ University of Massachusetts, USA, ⁴ University of Porto, Portugal, ⁵ University of Strathclyde, UK	Oriente, Italy	
15:40-16:00	15:40-16:00 [SYM1.03] Artificial phagocytosis in synthetic communities of biomimetic protocells L. Rodríguez-Arco*, M. Li, S. Mann University of Bristol, UK		15:40-16:00 [SYM3.03] Lyotropic liquid crystalline mesophases as gel electrolytes and media for the synthesis of mesoporous electrodes F.M. Balci, M.Y. Yaman, E. Yilmaz, G. Saat, T.O. Colak, O. Dag* Bilkent University, Turkey	15:40-16:00 [SYM4.03] Click coupled graphene oxide hybrids and their polymer nanocomposites for enhanced mechanical and laser-induced photothermal properties N.R. Han, J.W. Cho*, Konkuk University, Republic of Korea	15:40-16:00 [SYM5.03] Supported nanoparticles and nanosheets of MgAl LDH as co-catalyst in the dry reforming of methane A.P. Tathod, N. Hayek, O.M. Gazit*, Technion, Israel
16:00-17:00	Coffee Break and Poster Session 1 Room: Pavilhão do Rio				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
17:00-18:20	Symposium A Session Chair: Luisa De Cola	Symposium B Session Chair: Andre Gröschel	Symposium C Session Chair: Razieh Hashemi Sanatgar	Symposium B1 Session Chair: Emile Pouget	Symposium ABC
17:00-17:20	17:00-17:30 FEATURED TALK: [SA-IN01] Nanoscience Approaches to Heterogeneity in Biological Systems Paul Weiss, University of California Los Angeles, USA	17:00-17:20 [SYM2.01] Ionogels: The determining effect of the interface A. Guyomard-Lack ¹ , B. Said ² , N. Dupré ¹ , B. Humbert ¹ , A. Galarneau ² , J. Le Bideau* ¹ ¹ Université Nantes - CNRS, France, ² Université de Montpellier – CNRS, France	17:00-17:20 [SYM3.04] 3D DNA origami crystallites T. Liedl*, T. Zhang, S.F. Fischer, C. Hartl, P. Nickels, A. Maier, B. Nickels Ludwig-Maximilians-Universität, Germany	17:00-17:20 [SYM4.04] Biocompatible ultrasound contrast agent based on selectively modified porous silicon nanoparticles for cancer treatment K. Tamarov* ^{1,2} , A. Sviridov ² , W. Xu ¹ , V. Andreev ² , L. Osminkina ² , A. Kudryavtsev ⁴ , V. Timoshenko ^{2,3} , V-P. Lehto ¹ ¹ University of Eastern Finland, Finland, ² M.V. Lomonosov Moscow State University, Russia, ³ National Research Nuclear University "MEPhI", Russia, ⁴ Institute of Theoretical and Experimental Biophysics of RAS, Russia	17:00-17:20 [SYM5.04] Heterogeneous Ru(III) oxidation catalysts via 'click' bidentate ligands on a periodic mesoporous organosilica support S. Clerick*, E. De Canck, K. Hendrickx, V. Van Speybroeck, P. Van Der Voort Ghent University, Belgium

17:20-17:40	17:30-18:00 FEATURED TALK: [SA-IN02] Nano- and microfabricated hydrogels for regenerative engineering A. Khademhosseini ^{1,2} ¹ Brigham and Women's Hospital, USA, ² Harvard University, USA	17:20-17:40 [SYM2.02] Bio-functionalized magnetic nanoparticles for remote control of differentiation and oriented growth of neuronal cells E. Secret ^{*1} , E. Balloul ² , A. Michel ¹ , C. Monzel ² , M. Dahan ² , J. Fresnais ¹ , C. Ménager ¹ , J-M. Siaugue ¹ ¹ UPMC Université Paris 6, France, ² Institut Curie, France	17:20-17:40 [SYM3.05] 3D printing of porous silica with multilevel porosity F. Putz [*] , S. Scherer, N. Hüsing <i>Paris Lodron University of Salzburg, Austria</i>	17:20-17:40 [SYM4.05] Rare earth-doped nanocrystals for correlative cathodoluminescence electron microscopy bioimaging K. Keevend [*] , M. Stiefel, I.K. Herrmann <i>Empa-Swiss Federal Laboratories for Materials Science and Technology, Switzerland</i>	17:20-17:40 [SYM5.05] Mesoporous quaternary semiconductor oxides for improved photocatalytic hydrogen production T. Weller, M. Weiss, S. Waitz, R. Marschall [*] <i>Justus-Liebig-University Giessen, Germany</i>
17:40-18:00		17:40-18:00 [SYM2.03] Nanocellulose-based porous materials: Tunable architectures and compositions for functional and structural applications N. Lavoine [*] , L. Bergström <i>Stockholm University, Sweden</i>	17:40-18:00 [SYM3.06] Conjugated microporous polymers as photocatalysts for light-driven hydrogen evolution from water R.S. Sprick [*] , A.I. Cooper <i>University of Liverpool, UK</i>	17:40-18:00 [SYM4.06] NMR for ligand characterization and functional group conversion in silica nanoparticles C.I.C. Crucho [*] , C. Baleizão, J.P.S. Farinha <i>Instituto Superior Técnico, Portugal</i>	17:40-18:00 [SYM5.06] Synthesis of tuneable, hierarchical films and their use as catalyst in esterification E.M. Björk [*] , P-H. Wu, P. Mäkie, M. Odén <i>Linköping University, Sweden</i>
18:00-18:20	18:00-18:20 [SYM1.04] Multifunctional hybrid stimuli-responsive hydrogel-driven microstructured surfaces: From chemomechanics to homeostasis and catch-and-release of biomolecules M. Aizenberg <i>Harvard University, USA</i>	18:00-18:20 [SYM2.04] Remote nanomaterials-mediated cell activation G. Ciofani ^{1,2} ¹ Politecnico di Torino, Italy, ² Istituto Italiano di Tecnologia, Italy	18:00-18:20 [SYM3.07] A Soft 3D acoustic meta-polyhipe A. Kovalenko ¹ , S. Raffy ^{1,3} , T. Brunet ² , A. Merlin ¹ , B. Mascaro ² , K. Zimny ¹ , J. Leng ³ , C. Aristégui ² , O. Poncelet ² , O. Mondain-Monval ^{*1} ¹ University of Bordeaux-Centre de Recherche Paul Pascal-CNRS, France, ² University of Bordeaux, France,	18:00-18:20 [SYM4.07] Development of new materials for high temperature insulation based on zirconia aerogels C. Ambard [*] , A. Dieraert, Y. Carré, P. Belleville <i>CEA Le Ripault, France</i>	18:00-18:20 [SYM5.07] Selective surface modification in bimodal mesoporous CMK-5 carbon: Impact on nitrogen and water sorption behaviour C. Weinberger [*] , M. Tiemann <i>University of Paderborn, Germany</i>
Room	Auditorium I Session chair: Markus Antonietti				
18:25-19:10	TUTORIAL 1: Silsesquioxane-based hybrid macroporous monoliths: Robust aerogel, flexible chemical sponge, embedded nanoparticles catalyst Kazuki Nakanishi, Kyoto University, Japan				
19:10-21:10	Welcome Reception and Poster Session 1 Room: Pavilhão do Rio				

Tuesday, 7 March 2017					
Room	Auditorium I				
08:30-09:15	PLENARY LECTURE: [PLN02] Bio-responsive hybrid materials for regenerative medicine and biosensing Molly M. Stevens, <i>Imperial College London, UK</i>				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
09:20-10:20	Symposium A <i>Session chair: Laura De Laporte</i>	Symposium B	Symposium C <i>Session chair: Thomas Bien</i>	Symposium B1 <i>Session chair: Matteo Palma</i>	Symposium ABC <i>Session chair: Emma Bjork</i>
09:20-09:40	09:20-09:40 [SYM1.05] Biomineralization of superparamagnetic iron oxide on SiO₂ nanoparticles functionalized with Ferritin subunits D. Carmona*, L. Treccani, S. Lid, L. Colombi <i>Universität Bremen, Germany</i>	09:20-09:40 [SYM2.05] Characterization of solid-supported ultrathin films and molecular interactions using MP-SPR N.M. Granqvist*, A.E. Jokinen, J.W. Sadowski <i>BioNavis Ltd., Finland</i>	09:20-09:50 FEATURED TALK: [SC-IN01] Organic-inorganic hybrid materials: Multi-functional solids for multi-step reaction processes Urbano Díaz* , Avelino Corma, <i>Instituto de Tecnología Química (UPV-CSIC), Spain</i>	09:20-09:40 [SYM4.08] Zwitterionic RAFT- & photochromic spiropyran-spirooxazine SI-ROMP homopolymers in mesoporous films L. Silies, J. Tom, F. Krohm, J. Kind, C.M. Thiele, A. Andrieu-Brunsen* <i>Technische Universität Darmstadt, Germany</i>	09:20-09:40 [SYM5.08] Metal-organic frameworks: Templates and supports of nanoclusters P.A. Szilagyí* ¹ , T. Heine ² , A. Beale ³ , H. Kim ⁴ ¹ <i>University of Greenwich, UK</i> , ² <i>University of Leipzig, Germany</i> , ³ <i>University College London, UK</i> , ⁴ <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
09:40-10:00	09:40-10:00 [SYM1.06] Emergent complex behavior of self-assembled nanoparticles far from equilibrium S. Ilday, G. Makey, G.B. Akguc, O. Yavuz, O. Tokel, I. Pavlov, O. Gulseren, F.O. Ilday* <i>Bilkent University, Turkey</i>	09:40-10:00 [SYM2.06] Nanoparticles with chemical and structural topography A.H. Gröschel <i>University of Duisburg-Essen, Germany</i>	09:50-10:20 FEATURED TALK: [SC-IN02] Molecular understanding and controlled functionalization of surfaces towards single-site catalysts and beyond Christophe Copéret, <i>ETH Zurich, Switzerland</i>	09:40-10:00 [SYM4.09] Polyelectrolyte-coated Fe₃O₄ nanoparticles for the recovery of phosphate L. Paltrinieri ^{1,2} , M. Wang ¹ , E.J.R. Sudhölter ¹ , L.C.P.M. de Smet* ^{1,3} ¹ <i>TU Delft, The Netherlands</i> , ² <i>Wetsus, The Netherlands</i> , ³ <i>Wageningen University & Research, The Netherlands</i>	09:40-10:00 [SYM5.09] Crystalline microporous organo-silicates: Hybrids for room temperature humidity sensor B. Fabbri* ¹ , L. Bonoldi ² , V. Guidi ¹ , G. Cruciani ¹ , D. Casotti ¹ , C. Malagù ¹ , G. Bellussi ² , R. Millini ² , L. Montanari ² , A. Carati ² et al ¹ <i>University of Ferrara, Italy</i> , ² <i>Eni Spa, via F. Maritano 26, Italy</i>
10:00-10:20	10:00-10:20 [SYM1.07] Nanodiamonds - a thrilling toolbox to multifunctionality O. Shimoni*, K. Bray, L. Cheng, R. Previdi, I. Aharonovich <i>University of Technology Sydney, Australia</i>	10:00-10:20 [SYM2.07] Multimetallic complexes of electron-rich late transition metals for applications in homogeneous catalysis F. Spillebout* ^{1,2} , S.R. Stoyanov ³ , A. Kovalenko ^{1,2}		10:00-10:20 [SYM4.10] Testing of novel SLIPS hybrid materials for marine biofouling prevention solutions S.K. Kolle* ¹ , O.A. Ahanotu ¹ , L.C. Cohen ¹ , P.K. Kim ¹ , E.M. Maldonado ¹ , J.W. Weaver ¹ , T.B. Blough ¹ , S.S. Stafslin ² , D.S.	10:00-10:20 [SYM5.10] Titania monoliths with adjustable pore sizes as precursor structures for Ti₄O₇ electrode materials G. Beck*, M. Sieland, R. Marschall, B.M. Smarsly <i>Justus Liebig University, Germany</i>

		¹ National Institute for Nanotechnology, Canada, ² University of Alberta, Canada, ³ Canmet Energy Technology Centre, Canada		Slocum ³ , J.A. Aizenberg ¹ et al ¹ Harvard University, USA, ² North Dakota State University, USA, ³ Stellwagen Bank National Marine Sanctuary, USA	
10:20-11:20	Coffee Break and Poster Session 2 Room: Pavilhão do Rio				
<i>Rooms</i>	<i>Auditorium II</i>	<i>Auditorium I</i>	<i>Auditorium VI</i>	<i>Auditorium VII</i>	<i>Auditorium VIII</i>
11:20-12:40	Symposium A <i>Session chair: Helmut Cölfen</i>	Symposium B <i>Session chair: Nathalie Lavoine</i>	Symposium C	Symposium B1 <i>Session chair: Marco Faustini</i>	Symposium ABC <i>Session chair: Christian Weinberger</i>
11:20-11:40	11:20-11:50 FEATURED TALK: [SA-IN03] Cells and gels: matrix elasticity and spreading dynamics regulate cell behaviour Wilhelm T.S. Huck, <i>Radboud University, Nijmegen, The Netherlands</i>	11:20-11:40 [SYM2.08] Vitamin B3 metal organic-frameworks as potential delivery vehicles for store and release therapeutic nitric oxide R.V. Pinto ¹ , F. Antunes ² , J. Pires ² , V. Graça ³ , P. Brandão ³ , M.L. Pinto* ¹ ¹ Universidade de Lisboa, Portugal, ² University of Aveiro, Portugal	11:20-11:40 [SYM3.08] Abundant-elements-based porous frameworks for highly efficient energy storage/conversion electrode processes K. Sakaushi <i>National Institute for Materials Science, Japan</i>	11:20-11:40 [SYM4.11] Manufacturing of Poly lactic acid conductive composites for 3D printing R. Hashemi Sanatgar* ^{1,2} , C. Campagne ^{2,3} , V. Nierstrasz ¹ ¹ University of Borås, Sweden, ² ENSAIT, GEMTEX, France, ³ Université Lille Nord de France, France, ⁴ Soochow University, China	11:20-11:40 [SYM5.11] Morphological control of graphene-like conductive 2D metal-organic frameworks B. Hoppe*, K. Menekse, K. Hindricks, P. Behrens <i>Leibniz Universität Hannover, Germany</i>
11:40-12:00	11:50-12:10 [SYM1.08] Light-driven dynamic shaping and autonomous division of polyelectrolyte-surfactant microparticulate material via azobenzene photomechanics N. Martin* ¹ , K.P. Sharma ^{1,2} , R.L. Harniman ¹ , R.M. Richardson ¹ , R.J. Hutchings ¹ , D. Alibhai ¹ , M. Li ¹ , S. Mann ¹ ¹ University of Bristol, UK, ² Indian Institute of Technology Bombay, India	11:50-12:10 [SYM2.09] Novel colloidal based nano-assemblies combining inorganic platelets and polymer coatings T. Stimpfling ¹ , A. Langry ¹ , A. Koenig ² , D. Schmelter ² , P. Keil ² , H. Hintze-Bruening ² , F. Leroux* ¹ ¹ ICCF, France, ² BASF, Germany	11:50-12:10 [SYM3.09] Functional metal-organic framework thin film devices: from toxic vapour sensing to solid state lighting M. TU* ^{1,2} , R. Ameloot ¹ , D. De Vos ¹ , R.A. Fischer ^{2,3} ¹ University of Leuven, Belgium, ² Ruhr University Bochum, Germany, ³ Technical University Munich, Germany	11:50-12:10 [SYM4.12] From the organic self-assembly to the design of chiral functional chiral nanostructures E.P. Pouget*, R.O. Oda <i>CNRS/Bordeaux University, France</i>	11:50-12:10 [SYM5.12] Palladium-decorated SnO₂ nano-platelets hydrogen gas sensors prepared by vapour transport method J-I. Kim ¹ , H-S. Jang ² , K-C. Kim* ¹ ¹ Mokwon University, Republic of Korea, ² World Tech Co Ltd, Republic of Korea
12:00-12:20	12:10-12:30 [SYM1.09] Fabrication of gold nanorods conjugated porous	12:00-12:20 [SYM2.10] Novel nanocomposite materials: Incorporation of	12:00-12:30 FEATURED TALK: [SC-IN03] Surface casting for the synthesis	12:00-12:20 [SYM4.13] Preparation of novel 'powder' cellulose nanocrystal	12:00-12:20 [SYM5.13] Unravelling design guidelines for photocatalytic d0

	<p>silicon nanoparticles functionalized calcium alginate nano hydrogel using microemulsion templates for photothermal combination therapy</p> <p>H. Kong¹, H. Zhang^{2,3}, L. Zhang^{1,2}, L. Qu², H. Wu², E. Makila⁴, J. Salonen⁴, H. Santos³, M. Hai^{*1,2}, D. Weitz²</p> <p>¹University of Science and Technology Beijing, China, ²Harvard University, USA, ³University of Helsinki, Finland, ⁴University of Turku, Finland</p>	<p>nanoporous silica and organosilica nanoparticles in silicones</p> <p>M. Jahns¹, A. Lavrentieva², T. Heemeier^{1,3}, A. Satalov¹, S. Besdo⁴, C. Blume^{2,3}, P. Behrens^{*1,3}</p> <p>¹Leibniz University Hannover, Germany, ²Leibniz University Hannover, Germany, ³Cluster of Excellence "Hearing4all", Germany</p>	<p>of high-surface area oxides</p> <p>Ferdi Schüth, <i>Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany</i></p>	<p>(nanowhisker)</p> <p>T. Arita^{*1}, J. Araki¹</p> <p>¹Tohoku University, Japan, ²Shinshu University, Japan</p>	<p>metal-organic frameworks</p> <p>M.A. van der Veen^{*1}, J.G. Santaclara¹, M.A. Nasalevich¹, S. Castellanos², F. Kapteijn¹, J. Gascon¹</p> <p>¹Delft University of Technology, The Netherlands, ²ARCNL, The Netherlands</p>
12:20-12:40		<p>12:20-12:40</p> <p>[SYM2.11] Bio-inspired controllable liquid transfer by topological asymmetric fibers</p> <p>H. Liu[*], L. Jiang</p> <p><i>Beihang University, China</i></p>		<p>12:20-12:40</p> <p>[SYM4.14] Radical induced supramolecular hybrid hydrogelation</p> <p>M. Mulvee^{*1,3}, N. Vasiljevic^{1,2}, A. Patil^{1,3}, S. Mann^{1,3}</p> <p>¹University of Bristol, UK, ²Centre for Organized Matter Chemistry, UK, ³Bristol Centre for Functional Nanomaterials, UK</p>	<p>12:20-12:40</p> <p>[SYM5.14] Tuning particle diameter and morphology of mesoporous silica nanoparticles under 100nm</p> <p>T. Ribeiro, A.S. Rodrigues, C. Crucho, J.P.S. Farinha, C. Baleizão[*]</p> <p><i>Instituto Superior Técnico, Portugal</i></p>
12:30-14:10	Lunch Room: Pavilion 1				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
14:10-16:50	<p>Symposium A</p> <p>Session chair: Joanna Aizenberg</p>	<p>Symposium B</p> <p>Session chair: Karen Winey</p>	<p>Symposium C</p> <p>Session chair: Maurizio Cossi & Petra Pötschke</p>	<p>Symposium B1</p>	<p>Symposium ABC</p> <p>Session chair: Olivier Durupthy & Sander Clerick</p>
14:10-14:30	<p>14:10-14:40</p> <p>FEATURED TALK: [SA-IN04] Hybrid hydrogels for medical applications</p> <p>L. De Cola^{*1}, G. Alonci¹, F. Fiorini¹, P. Riva², S. Perretta^{2,3}</p> <p>¹Institut de Science et d'Ingénierie Supramoléculaires, University of Strasbourg, France, ²Institute of Image-</p>	<p>14:10-14:30</p> <p>[SYM2.12] Prebiotic synthesis of biomolecules on mineral surfaces</p> <p>T. Georgelin^{*1}, M. Akouche¹, J.F. Lambert¹, M. Jaber², M.C. Maurel³</p> <p>¹Sorbonne Universités-Laboratoire de Réactivité de Surface, France, ²Sorbonne</p>	<p>14:10-14:30</p> <p>[SYM3.10] Graphene-based aerogels for high performance sensing and catalytic applications</p> <p>M.A. Worsley^{*1}, A. Harley-Trochimczyk², H. Long², W. Yan², T.P. Pham², C.A. Orme¹, A. Nelson¹, R. Maboudian², A. Zettl²</p> <p>¹Lawrence Livermore National</p>	<p>14:10-14:30</p> <p>[SYM4.15] Ambipolar organic thin film transistors with selforganised hybrid polymer nanocomposites</p> <p>L. Janasz¹, A. Luczak¹, W. Pisula^{1,2}, J. Ulanski^{*1}</p> <p>¹Lodz University of Technology, Poland, ²Max Planck Institute for Polymer Research, Germany</p>	<p>14:10-14:30</p> <p>[SYM5.15] Solid core particles for high pH chromatographic separations</p> <p>B. Muriithi[*], K.D. Wyndham, N.L. Lawrence, J. Wilson, K.H. Glose, J.N. Fairchild, C.A. Boissel, M.A. Deloffi, S.S. Shiner</p> <p><i>Waters Corporation, USA</i></p>

	<i>Guided Surgery, IHU Strasbourg, France, ³IRCAD, Strasbourg, France</i>	<i>Universités-Laboratoire d'Archéologie Moléculaire et Structurale, France, ³UPMC-MNHN-ISYEB, France</i>	<i>Laboratory, USA, ²University of California - Berkeley, USA</i>		
14:30-14:50	14:40-15:00 [SYM1.10] Golden nanoflowers for image-guided radiotherapy G. Jiménez Sanchez ¹ , N. Mohamed Saïd ¹ , J. Volatron ² , I. Marangon ² , S. Dufort ³ , F. Denat ¹ , F. Boschetti ⁴ , G. Le Duc ⁵ , F. Gazeau ² , S. Roux* ¹ et al ¹ Université de Bourgogne Franche-Comté, France, ² Université Paris Diderot, France, ³ Nano-H S.A.S., France, ⁴ Chematech S.A.S., France, ⁵ European Synchrotron Radiation Facility, France	14:30-14:50 [SYM2.13] Integration of clustomesogens in electro-controlled devices Y. Molard* ¹ , M. Prévôt ¹ , M. Amela-Cortes ¹ , S. Cordier ¹ , H. Folliot ² , R. Lefort ¹ , S.K. Manna ³ , L. Dupont ³ , S.M. Wood ⁴ , S.M. Morris ⁴ ¹ Université de Rennes 1, France, ² FOTON-INSA Rennes, France, ³ Telecom Bretagne, France, ⁴ University of Oxford, UK	14:30-14:50 [SYM3.11] Fabrication of hierarchically porous carbon monoliths with ordered mesopores for energy storage G. Hasegawa* ¹ , K. Kanamori ² , K. Nakanishi ² ¹ Kyushu University, Japan, ² Kyoto University, Japan	14:30-14:50 [SYM4.16] Tuning iron and titanium vicinity in composite materials for enhanced photoelectrochemical properties S. Petit, L. Duclaux, C. Laberty-Robert, O. Durupthy* UPMC Sorbonne Universités, France	14:30-14:50 [SYM5.16] Energy managing composites based on continuous macroscopic fibres of carbon nanotubes combined with polyelectrolytes and semiconductors J.J. Vilatela* ¹ , E. Senokos ¹ , A. Moneral ¹ , A. Moya ¹ , V. Reguero ¹ , R. Marcilla ² , J. Palma ² ¹ IMDEA Materials, Spain, ² IMDEA Energy, Spain
14:50-15:10	15:00-15:20 [SYM1.11] Peptide-modulated self-assembly of photoactive dyes: Molecular biomimetics and antitumor photodynamic/photothermal therapy X. Yan*, K. Liu, Q. Zou Chinese Academy of Sciences, China	14:50-15:20 FEATURED TALK: [SB-IN03] Mesoporous silica nanoparticle supported lipid bilayers (aka Protocells) for individual leukemia cell targeting and CRISPR delivery C. Jeffrey Brinker, University of New Mexico, USA	14:50-15:10 [SYM3.12] The role of confinement dimension in the dynamic response of confined hydrogen confined into clathrates hydrates M. Russina* ¹ , E. Kemner ¹ , F. Mezei ^{2,3} ¹ Helmholtz Zentrum Berlin, Germany, ² European Spallation Source ESS, Sweden, ³ Wigner Research Center for Physics, Hungary	14:50-15:10 [SYM4.17] Morphological effects of microscale matrix-filler interactions in thermoplastic polymers A. Gitsas* ¹ , T. Gkourmpis ² , D. Tranchida ¹ ¹ Borealis Polyolefine, Austria, ² Borealis AB, Sweden	14:50-15:10 [SYM5.17] Highly porous poly(divinylbenzene) nanoparticle fibers J. Migenda*, S. Werner, B.M. Smarsly Justus-Liebig Universität Giessen, Germany
15:10-15:30	15:20-15:40 [SYM1.12] Underwater reversible adhesion through air capillary bridges: Learning from the success of the ladybird beetle B-E. Pinchasik*, M. Kappl, H-J.		15:10-15:30 [SYM3.13] Dynamic porous material with peptide backbone A.P. Katsoulidis*, D. Antypov, G.F.S. Whitehead, M.J. Rosseinsky University of Liverpool, UK	15:10-15:30 [SYM4.18] A barium strontium titanate/polymer based nanoink for tunable RF and microwave applications M. Haghzadeh, C. Armiento, A. Akyurtlu*	15:10-15:30 [SYM5.18] Multifunctional Carbon/Alumina Nanoparticles for DNA Sensing M. Aramesh* ^{1,2} , P. Phong ² , K. Ostrikov ² , S. Prawer ² , J. Voros ¹ ¹ ETH Zurich, Switzerland, ² QUT,

	Butt <i>Max Planck Institute for Polymer Research, Germany</i>			<i>University of Massachusetts Lowell, USA</i>	<i>Australia</i>
15:30-15:50	15:40-16:00 [SYM1.13] Functional lignocellulosic materials: Engineering smart biohybrids from a natural anisotropic scaffold E. Cabane* ^{1,2} , T. Keplinger ^{1,2} , S. Kostic ^{1,2} , M. Vidiella del Blanco ^{1,2} , S. Vitas ^{1,2} , Y. Wang ^{1,2} , I. Burgert ^{1,2} ¹ ETH Zürich, Switzerland, ² EMPA, Switzerland	15:20-15:50 FEATURED TALK: [SB-IN04] Smart interfacial materials from super-wettability to binary cooperative complementary systems Lei Jiang, <i>Chinese Academy of Sciences, P. R. China</i>	15:30-15:50 [SYM3.14] MOFs and COFs: Performant adsorbents for the challenging separation of biobased carboxylic acids T. Stassin* ¹ , T. Bein ² , R. Ameloot ¹ , D. De Vos ¹ ¹ KU Leuven, Belgium, ² University of Munich, Germany	15:30-15:50 [SYM4.19] Aluminium-Alumina nanocomposite foam with enhanced mechanical properties H. Oveisi <i>Hakim Sabzevari University, Iran</i>	15:30-15:50 [SYM5.19] Magnetically separable nano-sized material for arsenic adsorption A.M. Ferreira* ¹ , R.R. Cunha ² , G.C. Silva ³ ¹ Centro Federal de Educação Tecnológica de Minas Gerais, Brazil, ² Pontífice Universidade Católica de Minas Gerais, Brazil
15:50-16:10	16:00-16:20 [SYM1.14] Tracking self-assembly of complex hierarchical structures in the mussel byssus T. Priemel, E. Degtyar, M.N. Dean, M.J. Harrington* <i>Max Planck Institute of Colloids and Interfaces, Germany</i>	15:50-16:10 [SYM2.14] Self-directed localized nucleation-growth of a coordination polymer onto a heterogeneous nano-patterned surface A. Bleuzen* ¹ , V. Trannoy ¹ , M. Faustini ² , D. Grosso ^{2,3} ¹ Université Paris Sud, France, ² Université Paris 6, France, ³ Université Aix-Marseille, France	15:50-16:10 [SYM3.15] Hierarchically porous layered double hydroxide monoliths V. Prevot* ¹ , C. Forano ¹ , M. Fukui ² , N. Tarutani ² , S. Nishimura ² , M. Takahashi ² , Y. Tokudome ² ¹ UMR 6296, ICCF, France, ² Osaka Prefecture University, Japan	15:50-16:10 [SYM4.20] Magneto-plasmonic nanoheaters J.G. Ovejero* ¹ , P. de la Presa ^{1,3} , M.A. Garcia ² , P. Herrasti ¹ , A. Hernando ¹ ¹ Institute of Applied Magnetism UCM-ADIF, Spain, ² University Autonomous of Madrid, Spain, ³ Institute of Ceramic and Glass (CSIC), Spain	15:50-16:10 [SYM5.20] Design of hybrid gold-magnetic nanoparticles for hyperthermia applications T.T. Nguyen, J. Volatron, F. Gazeau, F. Mammeri*, S. Ammar <i>Université Paris Diderot, France</i>
16:10-16:30	16:20-16:40 [SYM1.15] An injectable, anisotropic hydrogel for directed cell and nerve growth J.C. Rose, A. Omidinia-Anarkoli, M. Cámara-Torres, U. Tuvshindorj, S. Boesveld, J. Köhler, K. Rahimi, M. Möller, L. De Laporte* <i>DWI-Leibniz Institute for Interactive Materials, Germany</i>	16:10-16:30 [SYM2.15] Functional micropatterns of superhydrophobic and omniphobic properties P. Levkin <i>Karlsruhe Institute of Technology, Germany</i>	16:10-16:40 FEATURED TALK: [SC-IN04] Interfacial assembly and engineering of ordered functional mesoporous materials for applications Dongyuan Zhao, <i>Fudan University, P.R. China</i>	16:10-16:30 [SYM4.21] Towards hybrids: Adsorption, ordering and metalation of porphyrins on MgO nanocube surfaces J. Schneider* ¹ , F. Kollhoff ² , T. Schindler ² , S. Bichlmaier ¹ , J. Bernardi ³ , T. Unruh ² , J. Libuda ² , T. Berger ¹ , O. Diwald ¹ ¹ University of Salzburg, Austria, ² University of Erlangen-Nürnberg, Germany, ³ Vienna University of Technology, Austria	16:10-16:30 [SYM5.21] Synthesis of acrylic acid based hydrogels fabricated with metal nanoparticles and their applications in catalysis and adsorption M. Ajmal* ¹ , M. Siddiq ² , F. Naseer ² , Z.H. Farooqi ³ ¹ Bahauddin Zakariya University, Pakistan, ² Quaid-i-Azam University, Pakistan, ³ University of the Punjab, Pakistan

16:30-16:50		16:30-16:50 [SYM2.16] Bottlebrush elastomers: Inherently prestrained dielectric actuators M. Vatankeh Varnosfardnerani ¹ , S. Sheiko* ¹ , A. Dobrynin ⁴ , W. Daniel ¹ , K. Matyjaszewski ² , B. Morgan ¹ , Q. Li ¹ , R. Spontak ³ , A. Zhushma ¹ , D. Armstrong ³ ¹ University of North Carolina at Chapel Hill, USA, ² Carnegie Mellon University, USA, ³ North Carolina State University, USA, ⁴ University of Akron, USA		16:30-16:50 [SYM4.22] Polyoxometalate-based inorganic nanoribbons and nanohelices for enantioselective catalysis S. Nlate*, M. Attoui, T. Buffeteau, E. Pouget, R. Oda, D. Talaga, G. Le Bourdon <i>University of Bordeaux, France</i>	16:30-16:50 [SYM5.22] Rapid prototyping of chemical microsensors based on molecularly imprinted polymers synthesized by 2-photon stereolithography L.P. Chia Gomez ¹ , A. Spangenberg* ¹ , X-A. Ton ² , Y. Fuchs ² , F. Bokeloh ² , J-P. Malval ¹ , B. Tse Sum Bui ² , D. Thuau ³ , C. Ayela ³ , K. Haupt ² et al ¹ CNRS University, France, ² Sorbonne University, France, ³ Universite de Bordeaux, France
16:50-17:15	Coffee Break				
Room	Auditorium I				
17:15-18:00	TUTORIAL 2: Polymer Ionic Liquids: A new key component for functional hybrid design Markus Antonietti, <i>Max-Planck-Institute of Colloids and Interfaces, Germany</i>				
18:00-19:30	Continuation of Poster Session 2				

Wednesday, 8 March 2017

Room	Auditorium I				
08:00-08:45	PLENARY LECTURE: [PLN03] Multifunctional hybrid carbon interfaces Maurizio Prato, <i>Università di Trieste, Italy</i>				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
08:50-10:10	Symposium A <i>Session chair: Giuseppina Luciani</i>	Symposium B <i>Session chair: C. Jeffrey Brinker</i>	Symposium C <i>Session chair: Michael Silverstein</i>	Symposium B1 <i>Session chair: Juliana Schultz</i>	Symposium ABC <i>Session chair: Krzysztof Winkler</i>
08:50-09:10	08:50-09:10 [SYM1.16] Ultra-responsive soft matter from strain-stiffening hybrid gels P.H.J. Kouwer <i>Radboud University Nijmegen, The Netherlands</i>	08:50-09:20 FEATURED TALK: [SB-IN05] Hybrid colloidal cholesteric liquid crystals in spherical confinement Eugenia Kumacheva, <i>University of Toronto, Canada</i>	08:50-09:10 [SYM3.16] Block copolymer directed ordered mesoporous materials for energy conversion and storage: From hierarchical to functional materials J. Lee <i>Pohang University of Science and</i>	08:50-09:10 [SYM4.23] Effect of organic capping ligand selection on microstructural evolution of inorganic Cu₂ZnSnS₄ nanocrystals during annealing T.J. Huang* ^{1,2} , X. Yin ¹ , G. Qi ² , H.	08:50-09:10 [SYM5.23] Hybrid protocells: coacervate droplets with functional purple membrane coatings N. Moreau*, S. Mann, R. Anderson <i>University of Bristol, UK</i>

			<i>Technology, Republic of Korea</i>	Gong ¹ <i>¹National University of Singapore, Singapore, ²A*STAR, Singapore</i>	
09:10-09:30	09:10-09:30 [SYM1.17] Emulsion templated silica-biopolymer nanocapsules for theranostic and co-delivery G. Luciani* ¹ , R. Vecchione ^{1,2} , V. Calcagno ² , B. Silvestri ² , A. Costantini ¹ , A. Jakmola ¹ , P.A. Netti ¹ et al <i>¹University di Naples Federico II, Italy, ²IIT@CRIB, Italy</i>		09:10-09:30 [SYM3.17] Conjugated porous polymers for visible light-promoted photocatalysis K. Zhang <i>Max Planck Institute for Polymer Research, Germany</i>	09:10-09:30 [SYM4.24] Hybrid silica nanoparticles including ionic liquid fragment for solid-state lithium ion conduction S. Delacroix ^{1,2} , F. Sauvage ^{2,5} , M. Reynaud ^{1,5} , M. Deschamps ^{4,5} , S. Bruyère ^{2,5} , D. Postel ^{1,3} , J-M. Tarascon ^{2,5} , A.N. Van Nhien ^{1,3} , M. Becuwe* ^{2,5} <i>¹Laboratoire de Glycochimie, France, ²Laboratoire de Réactivité, France, ³Institut de Chimie de Picardie (ICP), France, ⁴Conditions Extrêmes et Matériaux: Haute Température et Irradiation (CEMHTI), France, ⁵Ruseau sur le Stockage Electrochimique de l'Energie (RS2E), France</i>	09:10-09:30 [SYM5.24] Breakable silica nanoparticles for the in vivo delivery of biomolecules M. Dentinger* ^{1,2} , A. Insuasty ¹ , E.A. Prasetyanto ¹ , E. Robinet ³ , L. De Cola ¹ <i>¹University of Strasbourg, France, ²Karlsruhe Institut of Technology, Germany, ³Institut Hospitalo-Universitaire de Strasbourg, France</i>
09:30-09:50	09:30-09:50 [SYM1.18] Lysine-functionalized nanodiamonds as gene delivery vectors: Chemical design and cellular interaction studies S. Alwani ¹ , N. Hua ¹ , D. Michel ¹ , C. Karunakaran ² , I. Badea* ¹ <i>¹University of Saskatchewan, Canada, ²Canadian Light Source, Canada</i>	09:20-09:50 FEATURED TALK: [SB-IN06] Nanostructured hybrid materials by controlled radical polymerization Krzysztof Matyjaszewski, <i>Carnegie Mellon University, USA</i>	09:30-09:50 [SYM3.18] Stimuli responsive PIMs - modulating gas sorption an separation properties by light irradiation J. Schmidt* ¹ , D. Becker ¹ , N. Konnertz ² , M. Böhning ² , A. Thomas ¹ <i>¹Technische Universität Berlin, Germany, ²Bundesanstalt für Materialforschung und –prüfung (BAM), Germany</i>	09:30-09:50 [SYM4.25] Design of hybrid porous materials functionalized with polypeptides for the specific adsorption of benzene metabolite T.N.T. Phan ^{1,2} , D. Berge-Lefranc ^{1,2} , G. Darmograi ^{1,2} , K. Mabrouk ^{1,2} , M. Rollet ^{1,2} , D. Gignes ^{1,2} , R. Denoyel* ^{1,2} , F. Chaspoul ^{1,2} , V. Hornebecq ^{1,2} <i>¹Aix-Marseille University, France, ²CNRS, France</i>	09:30-09:50 [SYM5.25] Titanium dioxide/reduced graphene oxide hybrid and its application as catalystsin photodegradation of C.I. Basic Blue 9 and C.I. Basic Red 1 K. Siwinska-Stefanska, F. Ciesielczyk*, T. Jesionowski <i>Poznan University of Technology, Poland</i>
09:50-10:10	09:50-10:10 [SYM1.19] Bio-inspired design	09:50-10:10 [SYM2.17] Self-assembly in	09:50-10:10 [SYM3.19] Sol-gel synthesis of	09:50-10:10 [SYM4.26] Hybrid lignin/oxide	09:50-10:10 [SYM5.26] The effect of

	and construction of buoyant protocells V.V.S.P.K. Bosukonda*, A.J. Patil, S. Mann <i>University of Bristol, UK</i>	confinement: Rational understanding of the structure and symmetry of spherical colloidal crystals J. Wang, M. Engels, N. Vogel* <i>Friedrich-Alexander University Erlangen-Nürnberg, Germany</i>	hierarchically porous metal phosphate monolithic materials for various applications Y. Zhu*, K. Yoneda, A. Tanaka, K. Kanamori, K. Nakanishi <i>Kyoto University, Japan</i>	system based sorbents for hazardous metal ions removal F. Ciesielczyk*, P. Bartczak, L. Klapiszewski, T. Jesionowski <i>Poznan University of Technology, Poland</i>	molecular structure and environment on the miscibility, diffusivity and morphology in polythiophene-metallofullerene and organometal halide perovskite bulk heterojunctions A.E. Kobryn <i>National Institute for Nanotechnology, National Research Council Canada, Canada</i>
10:10-10:30	10:10-10:30 [SYM1.20] Freeze casting macroporous living materials S. Christoph, T. Coradin, F.M. Fernandes* <i>Université Pierre et Marie Curie, France</i>	10:10-10:30 [SYM2.18] Tuning the iridescence in Cellulose Nanocrystal Films S.N. Fernandes ¹ , N. Monge ^{1,2} , P.L. Almeida ^{*1,3} , M.H. Godinho ¹ <i>¹Universidade NOVA de Lisboa, Portugal, ²Polytechnic Institute of Lisbon, Portugal, ³Instituto Politécnico de Lisboa, Portugal</i>	10:10-10:30 [SYM3.20] Cyclodextrin-based assemblies as versatile templates for the design of nanostructured materials with tailored pore sizes and high catalytic activity R. Bleta* ¹ , S. Noel ¹ , A. Addad ² , A. Ponchel ¹ , E. Monflier ¹ <i>¹University of Artois, France, ²University of Lille, France</i>	10:10-10:30 [SYM4.27] Spectral dependence of photoacoustic signals from plasmonic gold nanoparticles in vitro, ex vivo and in vivo M. Ishihara* ¹ , T. Hirasawa ¹ , S. Okawa ¹ , T. Teranishi ² <i>¹National Defense Medical College, Japan, ²Kyoto University, Japan</i>	10:10-10:30 [SYM5.27] Investigation of thermally oxidative transformation behavior of nanospace confined AuCu nanocrystals within SiO₂ through solid-state reaction J.K. Jeon*, I.S. Lee <i>Pohang University of Science and Technology, Republic of Korea</i>
10:30-10:50	Coffee Break Room: Pavilhão do Rio				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
10:50-13:30	Symposium A <i>Session chair: Etienne Duguet</i>	Symposium B <i>Session chair: Nicolas Brun</i>	Symposium C <i>Session chair: Christophe Copéret & George Hasegawa</i>	Symposium B1 <i>Session chair: Vanessa Prevot</i>	Symposium ABC <i>Session chair: Sho Kataoka</i>
10:50-11:10	10:50-11:10 [SYM1.21] Complexation of mucins with mucoadhesive polymers: Enhanced lubricity and formulation of mucus mimics N. Nikogeorgos ¹ , T. Røn ¹ , N. Patil ² , B. Zappone ² , S. Lee* ¹ <i>¹Technical University of Denmark, Denmark, ²Universita della Calabria, Italy</i>	10:50-11:10 [SYM2.19] Learning about mechanical properties on different length scales using in-situ small angle scattering and in-situ dilatometry during gas sorption G. Reichenauer* ¹ , C. Balzer ¹ , C. Scherdel ¹ , O. Paris ² , R. Morak ² , L. Ludescher ² , N. Hüsing ³ , F. Putz ³ , M. Elsässer ³	10:50-11:20 FEATURED TALK: [SC-IN05] New dimensions of porous coordination polymers/metal-organic frameworks Susumu Kitagawa, <i>Kyoto University, Japan</i>	10:50-11:10 [SYM4.28] Polymer-assisted dispersion of nickel on zirconia through non-hydrolytic sol-gel method for dry reforming reaction C. Warwar Damouny*, O. Gazit <i>Technion, Israel</i>	10:50-11:10 [SYM5.28] Hybrid metal halide-silsesquioxane perovskites S. Kataoka*, A. Endo <i>National Institute of Advanced Industrial Science and Technology (AIST), Japan</i>

		¹ Bavarian Center of Applied Energy Research, Germany, ² Montanuniversität Leoben (MUL), Austria, ³ Paris-Lodron Universität Salzburg (PLUS), Austria			
11:10-11:30	11:10-11:30 [SYM1.22] Bio-inspired nano-architectures for artificial photosynthesis M. Bonchio ^{1,2} ¹ University of Padova, Italy, ² Institute of Membrane Technology-CNR, Italy	11:10-11:30 [SYM2.20] Low cost iron sulfide nanoparticles as cathode catalyst for proton exchange membrane electrolyzers J. Peron* ¹ , C. Di Giovanni ¹ , C. Reyes-Carmona ² , D.J. Jones ² , J. Roziere ² , B. Lasalle ³ , M. Giraud ¹ , C. Tard ¹ ¹ Université Paris Diderot, France, ² Université Montpellier 2, France, ³ Synchrotron Soleil, France		11:10-11:30 [SYM4.29] Molecular processes in intercalation batteries U. Stimming* ¹ , O. Schneider ² , L. Seidl ² ¹ Newcastle University, UK, ² Technical University Munich, Germany	11:10-11:30 [SYM5.29] Silver nanoparticle embedded nucleotide hydrogel networks templated by novel coacervates S. Briggs*, A.J. Patil, S. Mann University of Bristol, UK
11:30-11:50	11:30-12:00 FEATURED TALK: [SA-IN05] Mesocrystals: Fascinating hybrid materials Helmut Cölfen, Universität Konstanz, Germany	11:30-11:50 [SYM2.21] Multiwalled carbon nanotube/polysaccharide composites for the design of functional porous materials C. Avendano ¹ , O. Fontaine ¹ , A. Vioux ¹ , A. Mehdi ¹ , M. Baccour ¹ , M. In ¹ , N. Brun* ¹ ¹ Institut Charles Gerhardt de Montpellier, France, ² UMR 5221, France	11:20-11:40 [SYM3.21] PMO @ CPG - monoliths of hierarchically structured nanoporous organosilica/silica hybrid materials M. Bilo* ¹ , C. Küster ² , F.J. Brieler ¹ , D. Enke ² , M. Fröba ¹ ¹ University of Hamburg, Germany, ² University of Leipzig, Germany	11:30-11:50 [SYM4.30] Nanodiamond-polypyrrole composites for photovoltaic energy conversion B. Rezek ^{1,2} , D. Miliiaeva* ^{1,2} , P. Matunova ^{1,2} , V. Jirasek ¹ , S. Stehlik ¹ ¹ Institute of Physics CAS, Czech Republic, ² Faculty of Electrical Engineering, Czech Technical University, Czech Republic	11:30-11:50 [SYM5.30] Large scale synthesis and applications of low dimensional graphene colloidal S.H. Noh, W. Eom, T.H. Han* Hanyang University, Republic of Korea
11:50-12:10		11:50-12:10 [SYM2.22] Perylene bisimides as an adaptable building block for functional hybrid materials and devices Z. Syrgiannis* ¹ , F. Rigidanza ¹ , E. Pizzolato ^{2,1} , A. Sartorel ² , M. Bonchio ² , M. Prato ^{1,3} ¹ University of Trieste,	11:40-12:00 [SYM3.22] Tunable molecular separation by photoswitchable MOF membranes Z. Wang ¹ , A. Knebel ² , S. Grosjean ³ , D. Wagner ⁴ , S. Bräse ^{3,4} , C. Wöll ¹ , J. Caro ² , L. Heinke* ¹ ¹ Karlsruhe Institute of Technology	11:50-12:10 [SYM4.31] Light and super-insulating silica aerogel fibers by extrusion process E. Meyer* ¹ , B. Milow ¹ , D. Pico ² , A. Lueking ² , G. Seide ² ¹ German Aerospace Center, Germany, ² RWTH Aachen University, Germany	11:50-12:10 [SYM5.31] Liquid and aerosol repellent transparent surfaces for ink-jet printing applications M.A. Noyan* ¹ , V. Pruneri ^{1,2} ¹ ICFO-Institut de Ciències Fotoniques, The Barcelona Institute of Science and Technology, Spain, ² ICREA-

		<i>Italy, ²University of Padova, Italy, ³CIC biomaGUNE, Spain</i>	<i>(KIT), Germany, ²Leibniz University Hanover, Germany, ³Institute of Biological Interfaces 3 (IBG 3), Germany, ⁴Institute of Organic Chemistry (IOC), Germany</i>		<i>Institució Catalana de Recerca i Estudis Avançats, Spain</i>
12:10-12:30	12:00-12:20 [SYM1.23] Auxetic cardiac patches with tunable mechanical and conductive properties M. Kapnisi* ¹ , A.G. Guex ¹ , J. Puetzer ¹ , D. Mawad ¹ , C. Mansfield ¹ , F. Perbellini ¹ , C.M. Terracciano ¹ , S.E. Harding ¹ , D.C. Koutsogeorgis ² , M.M. Stevens ¹ et al ¹ Imperial College London, UK, ² Nottingham Trent University, UK	12:10-12:40 FEATURED TALK: [SB-IN07] Self-dispersed ultrafine particles for energy and lubrication applications Jiaxing Huang, <i>Northwestern University, USA</i>	12:00-12:20 [SYM3.23] Sequential pore wall modification in a covalent organic framework for lactic acid adsorption M.S. Lohse ¹ , T. Stassin ² , G. Naudin ¹ , S. Wuttke ¹ , R. Ameloot ² , D. De Vos ² , D.D. Medina* ¹ , T. Bein ¹ ¹ Center for NanoScience (CeNS) Ludwig-Maximilians-University Munich, Germany, ² Centre for Surface Chemistry and Catalysis, Belgium	12:10-12:30 [SYM4.32] Mechanically milled and spark plasma sintered bio hybrid pure Ti materials M. Kubota <i>Nihon University, Japan</i>	12:10-12:30 [SYM5.32] Ultra-thin nanopatterned metal oxide and polymeric thin films prepared by the evaporation-induced self-assembly process in combination with inkjet printing Q. Xu, J.H. Smått*, P. Ihalainen, J. Peltonen <i>Åbo Akademi University, Finland</i>
12:30-12:50	12:20-12:40 [SYM1.24] Fabrication of silk fibroin sponges with aligned cellular pore morphology using freeze-drying technique D. Panda*, S. Konar, S.K. Bajpai, A. Arockiarajan <i>Indian Institute of Technology Madras, India</i>	12:40-13:00 [SYM2.23] Capitalizing on faradaic activity of carbon hybrid materials to enhance water desalination via capacitive deionization P. Srimuk ^{1,2} , M. Zeiger ^{1,2} , S. Fleischmann ² , M. Aslan ¹ , V. Presser* ^{1,2} ¹ INM - Leibniz Institute for New Materials, Germany, ² Saarland University, Germany	12:20-12:40 [SYM3.24] Heteroatom-doped nanoporous carbons and their composites as sustainable electrocatalysts for fuel cells and water splitting T. Asefa <i>Rutgers, The State University of New Jersey, USA</i>	12:20-12:40 [SYM4.33] Spherical p-n polymeric nonojunction:C60Pd@polypyrrole and C60Pd@ polythiophene nanoparticles for energy storage and energy conversion K. Winkler*, E. Brancewicz <i>University of Bialystok, Poland</i>	12:20-12:40 [SYM5.33] Characterization of layered InSe and GaSe crystals intercalated with ferroelectric materials Y.I. Zhirko* ¹ , V.M. Grekhov ¹ , Z.R. Kudrynskiy ² , A.P. Bakhtinov ³ , Z.D. Kovalyuk ³ , V.V. Netyaga ³ ¹ Institute of Physics NAS of Ukraine, Ukraine, ² School of Physics and Astronomy of Nottingham University, UK, ³ Chernivtsy Branch of Institute for Material Science Problem NAS of Ukraine, Ukraine

12:50-13:10	12:40-13:00 [SYM1.25] Antifouling surfaces based on polymers and hydrophobin/polymer bioconjugates R. Milani* ¹ , Y. Liu ¹ , K. Kempe ² , P. Wilson ² , A. Griffo ^{1,3} , R. Mahlberg ¹ , A. Paananen ¹ , D.M. Haddleton ² ¹ VTT Technical Research Centre of Finland Ltd, Finland, ² University of Warwick, UK, ³ Aalto University, Finland	13:00-13:20 [SYM2.24] Plate-like nanomagnets - a basis for new class of soft multifunctional materials D. Lisjak*, S. Gyergyek, T. Gorsak, A. Mertelj <i>Jozef Stefan Institute, Slovenia</i>	12:40-13:00 [SYM3.25] Mesoporous organosilica-based heterogeneous molecular photocatalysts for solar energy conversion H. Takeda, Y. Goto, S. Inagaki* <i>Toyota Central R&D Labs., Inc., Japan</i>	12:50-13:10 [SYM4.34] Hybrid organosilicates and organosilicophosphates by non-hydrolytic sol-gel synthesis J. Pinkas* ¹ , M. Kejik ¹ , A. Styskalik ¹ , C.E. Barnes ² ¹ Masaryk University, Czech Republic, ² University of Tennessee, USA	12:50-13:10 [SYM5.34] New self-assembling copolymers for nano-encapsulation of active species for skin care applications S. Grishchuk*, G.M. Florescu, L. Gryshchuk, B. Wetzel <i>Institut für Verbundwerkstoffe GmbH, Germany</i>
13:10-13:30	13:00-13:20 [SYM1.26] Bioinspired multi-gradient micro- and nano-structures to control transports of micro-droplets Y. Zheng et al <i>Beihang University, China</i>		13:00-13:20 [SYM3.26] MOF Molecular Sieves K. Adil*, A. Cadiau, Y. Belmabkhout, P.M. Bhatt, A. Skhurenko, M. Eddaoudi <i>KAUST, Saudi Arabia</i>	13:10-13:30 [SYM4.35] Obtaining activated carbon from biomass waste for adsorption of pollutants in water J. Schultz* ¹ , S.M.C. Rosa ¹ , P.G. Peralta-Zamora ¹ , J.B. de Andrade ^{2,3} , A.S. Mangrich ^{1,2} ¹ Federal University of Paraná, Brazil, ² National Institute of Science and Technology – Energy and Environment, Brazil, ³ Federal University of Bahia, Brazil	13:10-13:30 [SYM5.35] Synthesis and characterization of magnetic graphene oxide nanocomposites for water treatment applications C.B. Lopes* ^{1,2} , D.S. Tavares ^{1,3} , C. Vale ² , E. Pereira ³ , T. Trindade ¹ ¹ CICECO-University of Aveiro, Portugal, ² CIIMAR, Portugal, ³ CESAM-University of Aveiro, Portugal
FREE AFTERNOON AND EVENING					

Thursday, 9 March 2017

Room	<i>Auditorium I</i> <i>Session Chair: Susumi Kitagawa</i>				
08:30-09:15	PLENARY LECTURE: [PLN04] Building block approach for the preparation of hybrid and porous materials <i>Kazuyuki Kuroda, Waseda University, Japan</i>				
Rooms	<i>Auditorium II</i>	<i>Auditorium I</i>	<i>Auditorium VI</i>	<i>Auditorium VII</i>	<i>Auditorium VIII</i>
09:20-10:20	Symposium A	Symposium B	Symposium C	Symposium B1	Symposium ABC

	Session chair: Christian Serre	Session chair: Jennifer Peron		Session chair: David Grosso	Session chair: Sergiy Grishchuk
09:20-09:40	09:20-09:40 [SYM1.27] Protein design for the templated morphosynthesis of {111}-terminated anisotropic gold nanocrystals J. Prasad* ¹ , S. Viollet ² , A.C. Fournier ¹ , K.L. Gurunatha ¹ , A. Urvoas ² , C. Marcelot ¹ , M. Valerio-Lepiniec ² , P. Minard ² , E. Dujardin ¹ ¹ CEMES, France, ² Universite Paris-Sud, France	09:20-09:40 [SYM2.25] Hyperbranched and block polymers for the synthesis and stabilization of GdPO ₄ nanoparticles as MRI contrast agents N. Lauth-de Viguerie* ¹ , C. Frangville ¹ , M. Gallois ¹ , Y. Li ² , H.H. Nguyen ¹ , D.R. Talham ² , C. Mingotaud ¹ , J-D. Marty ¹ ¹ Université de Toulouse, France, ² University of Florida, USA	09:20-09:50 FEATURED TALK: [SC-IN06] Photoinduced processes in covalent organic frameworks Thomas Bein, Ludwig-Maximilians-Universität München, Germany	09:20-09:40 [SYM4.36] Removal of Cr(VI) from contaminated waters by using green iron nanocomposite material- Batch and Column tests A. Toli, M. Alexopoulou, C. Mystrioti, A. Xenidis, N. Papassiopi* National Technical University of Athens, Greece	09:20-09:40 [SYM5.36] Uniform polymer templates for tailor-made, multifunctional hybrid nanomaterials M. Muellner ^{1,2} ¹ The University of Sydney, Australia, ² Australian Institute for Nanoscale Science and Technology, Australia
09:40-10:00	09:40-10:00 [SYM1.28] Bioinspired Hybrid Copolymers A. Bertin* ^{1,2} , S. Czarnecki ¹ , S. Hackelbusch ¹ ¹ BAM Federal Institute for Materials Research and Testing, Germany, ² Free University Berlin, Germany	09:40-10:00 [SYM2.26] Bifunctional magnetic nanomaterials for environment and health N. Griffete* ¹ , J. Fresnais ¹ , A. Bee ¹ , A. Espinosa ² , C. Wilhelm ² , C. Menager ¹ ¹ Sorbonne Universités France, ² UMR CNRS 7057, France	09:50-10:20 FEATURED TALK: [SC-IN07] Gas separations in metal-organic frameworks Jeffrey R. Long, University of California Berkeley, USA	09:40-10:00 [SYM4.37] Electrically conductive polymer nanocomposite filaments for 3D printing J.A. Covas* ¹ , M.C. Paiva ¹ , P. Lima ² , J. Gonçalves ² ¹ Universidade do Minho, Portugal, ² Pólo de Inovação em Engenharia de Polímeros, Portugal	09:40-10:00 [SYM5.37] Supramolecular self-assembly of photo- and magneto-responsive ternary nanoclusters S. Engel*, B.J. Ravoo University of Münster, Germany
10:00-10:20	[SYM1.29] Microgel core/shell architectures as targeted agents for fibrinolysis P. Kodlekere* ^{1,2} , L.A. Lyon ¹ ¹ Georgia Institute of Technology, USA, ² DWI-Leibniz Institute for Interactive Materials, Germany, ³ RWTH Aachen University, Germany, ⁴ Chapman University, USA	[SYM2.27] Low angle dependence structural color coating films composed of an amorphous array of colloidal particles via electrophoretic deposition K. Katagiri* ¹ , Y. Tanaka ¹ , K. Inumaru ¹ , Y. Takeoka ² ¹ Hiroshima University, Japan, ² Nagoya University, Japan		[SYM4.38] Poly(dimethylsiloxane)-poly(organosiloxane)-microcapsules as filler for a prospective self-healing poly(dimethylsiloxane) rubber L. Barnefske* ¹ , D. Siebler ¹ , S. Benemann ¹ , H. Sturm ^{1,2} ¹ Federal Institute for Materials Research and Testing, Germany, ² Technische Universität Berlin, Germany	[SYM5.38] Fabrication and characterisation of porous maghemite nanorods Y.M. Trushkina*, S.G. Mayo, C-W. Tai, G. Salazar-Alvarez MMK Department, Stockholm University, Sweden
10:20-11:20	Coffee Break and Poster Session 3 Room: Pavilhão do Rio				

Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
11:20-12:40	Symposium A <i>Session chair: Nebewia Griffete</i>	Symposium B	Symposium C <i>Session chair: Shinji Inagaki</i>	Symposium B1 <i>Session chair: Jiri Pinkas</i>	Symposium ABC <i>Session chair: Cláudia Lopes</i>
11:20-11:40	11:20-11:50 FEATURED TALK: [SA-IN06] Design of magnetic nanoparticles: A precision tool for cell imaging and activations Jinwoo Cheon, Yonsei University, Seoul, Korea	11:20-11:40 [SYM2.28] Nanoparticle-polymer hybrid inks for printed electronics B. Reiser*, L. Gonzalez-Garcia, I. Kanelidis, J.H.M. Maurer, T. Kraus <i>INM - Leibniz Institute for New Materials, Germany</i>	11:20-11:40 [SYM3.27] Mesoporous carbon monoliths prepared by soft templating process P. Bulavová* ¹ , J. Parmentier ² , V. Slovák ¹ <i>¹University of Ostrava, Czech Republic, ²Institute of Material Sciences of Mulhouse (IS2M), France</i>	11:20-11:40 [SYM4.39] Preparation of hybrids of neutral pigments with layered inorganic-organic monolith and their emission K. Fujii*, J. Hill, H. Hashizume, S. Shimomura, K. Ariga, T. Ando <i>National Institute for Materials Science, Japan</i>	11:20-11:40 [SYM5.39] Functional NiCoMnO₄/N-rGO nanocomposites as highly efficient electrocatalyst for energy applications A. Pendashteh*, J. Palma, M. Anderson, R. Marcilla <i>IMDEA Energy Institute, Spain</i>
11:40-12:00		11:40-12:00 [SYM2.29] Studying non-periodic motifs in MOFs with advanced solid-state NMR techniques G. Mali*, A. Krajnc, N. Zabukovec Logar <i>National Institute of Chemistry, Slovenia</i>	11:40-12:00 [SYM3.28] Oriented growth of photoactive metal-organic framework on conductive support (ITO) G. Genesio* ¹ , M. Carboni ¹ , J. Maynadié ¹ , D. Meyer ¹ , M. Fontecave ² <i>¹Institut de Chimie Séparative de Marcoule, France, ²Collège de France, France</i>	11:40-12:00 [SYM4.40] Supercritical fluid impregnation of silk fibers – Application to conductive fibres C. Dicko*, M. Singh, E. Dey <i>Lund Univeristy, Sweden</i>	11:40-12:00 [SYM5.40] Dissolution-recrystallization: A mechanism for inter-conversion between metal-organic frameworks M. Tu* ^{1,2} , R. Ameloot ¹ , R.A. Fischer ^{2,3} <i>¹University of Leuven, Belgium, ²Ruhr University Bochum, Germany, ³Technical University Munich, Germany</i>
12:00-12:20	11:50-12:10 [SYM1.30] Collagen-Based Hybrid Nanocomposites as Potential Tissue Scaffolds L. Chen ¹ , D. Bhuiyan ³ , P. Pooyan ² , R. Tannenbaum* ¹ <i>¹Stony Brook University, USA, ²Georgia Institute of Technology, USA, ³University of Alabama at Birmingham, USA</i>	12:00-12:30 FEATURED TALK: [SB-IN08] Patchy and unconventionally-shaped inorganic nanoparticles derived from multipod-like polystyrene/silica hybrid clusters Etienne Duguet, Universite Bordeaux I, France	12:00-12:20 [SYM3.29] Highly stable fluorinated MOF for gas related applications A. Cadiau*, K. Adil, Y. Belmabkhout, P. Bhatt, A. Shkurenko, M. Eddaoudi <i>KAUST, Saudi Arabia</i>	12:00-12:20 [SYM4.41] Tailoring the electrical and mechanical behaviour of elastomeric ethylene copolymers by adding different carbon nanostructures for strain sensor applications H. Palza*, M. Rojas <i>Universidad de Chile, Chile</i>	12:00-12:20 [SYM5.41] Chiral metal-organic coordination polymers and their inclusion compounds M. Zavakhina* ^{1,2} , I. Khan ^{1,2} , M. Barsukova ¹ , A. Sapianik ¹ <i>¹Nikolaev Institute of Inorganic Chemistry, Russia, ²Novosibirsk State University, Russia</i>
12:20-12:40	12:10-12:30 [SYM1.31] Engineering biointerface with controlled cell adhesion towards cancer		12:10-12:30 [SYM3.30] Template-dependent hydrophobicity in mesoporous organosilica films	12:10-12:30 [SYM4.42] Exploiting universal stochastic growth dynamics under nonequilibrium conditions	12:10-12:30 [SYM5.42] Tandem peptide anti-infective porous silicon nanoparticles for treatment of P.

	diagnostics S.T. Wang <i>Chinese Academy of Sciences, China</i>		M. Redzheb* ^{1,2} , S. Armini ² , P.V.D. Voort ¹ <i>¹Gent University, Belgium, ²imec, Belgium</i>	for directional self-assembly of multiscale complex materials S. Ilday* ¹ , G. Nogay ² , R. Turan ² <i>¹Bilkent University, Turkey, ²Middle East Technical University, Turkey</i>	aeruginosa pneumonia A. Bertucci* ^{1,2} , E.J. Kwon ³ , M. Skalak ³ , G. Braun ⁴ , F. Ricci ² , E. Ruoslahti ⁴ , S.N. Bhatia ³ , M.J. Sailor ¹ <i>¹University of California, USA, ²University of Rome, Italy, ³Massachusetts Institute of Technology, USA, ⁴Sanford Burnham Prebys Medical Discovery Institute, USA</i>
12:30-14:00	Lunch Room: Pavilion 1				
Rooms	<i>Auditorium II</i>	<i>Auditorium I</i>	<i>Auditorium VI</i>	<i>Auditorium VII</i>	<i>Auditorium VIII</i>
14:00-16:00	Symposium A <i>Session Chair: Jan-Henrik Smått</i>	Symposium B <i>Session chair: Barbara Milow</i>	Symposium C <i>Session chair: Lei Jiang</i>	Symposium B1 <i>Session chair: Kubota Masahiro</i>	Symposium ABC <i>Session chair: Serim Ilday</i>
14:00-14:20	14:00-14:30 FEATURED TALK: [SA-IN07] Biomedical applications of metal organic frameworks: Where are we now? Christian Serre, <i>Université de Versailles, France</i>	14:00-14:20 [SYM2.30] Effect of nanographite oxides on processing and properties of epoxy resins C. Esposito Corcione ¹ , M.R. Acocella ² , A. Giuri ¹ , M. Maggio ² , G. Guerra ² , A. Maffezzoli* ¹ <i>¹Università del Salento, Italy, ²Università di Salerno, Italy</i>	14:00-14:20 [SYM3.31] Links between ice-templating conditions, microstructures and mechanical properties of cellulose nanofibril foams F. Martoia ^{1,2} , T. Cochereau ^{3,4} , P.J.J. Dumont* ^{1,2} , L. Orgéas ^{3,4} , M. Terrien ^{3,4} , M.N. Belgacem ^{3,4} <i>¹Univ. Lyon, France, ²INSA-Lyon, France, ³Univ. Grenoble Alpes, France, ⁴CNRS, France</i>	14:00-14:20 [SYM4.43] Liesegang formation of aligned, linear arrays of Ag nanoparticles R. Toth* ¹ , R.M. Walliser ² , I. Lagzi ³ , D. Mathys ² , L. Marot ² , A. Braun ¹ , C.E. Housecroft ² , E.C. Constable ² <i>¹Empa, Switzerland, ²University of Basel, Switzerland, ³Budapest University of Technology and Economics, Hungary</i>	14:00-14:20 [SYM5.43] Ultralow-density transparent boehmite aerogels/cryogels and their application to a nanoglu G. Hayase <i>Tohoku University, Japan</i>
14:20-14:40		14:20-14:40 [SYM2.31] A polysilsesquioxane hybrid material based on bis-silane-1,4,5,8-naphthalimide R. Bacani, E.R. Triboni* <i>University of São Paulo, Brazil</i>	14:20-14:40 [SYM3.32] An accurate and transferable molecular model to predict adsorption in metal organic frameworks with open metal sites C. Campbell* ¹ , M. Fischer ³ , J.R.B. Gomes ² , M. Jorge ¹ <i>¹University of Strathclyde, UK, ²University of Aveiro, Portugal, ³University of Bremen,</i>	14:20-14:40 [SYM4.44] Carbonaceous materials coated with tin dioxide nanoparticles as catalyst supports for proton exchange membrane fuel cell F. Labbé* ¹ , Y. Ahmad ² , K. Guerin ² , B. Molina Concha ³ , M. Chatenet ^{3,4} , R. Metkemeijer ¹ , S. Berthon-Fabry ¹ <i>¹Mines ParisTech, France, ²ICCF,</i>	14:20-14:40 [SYM5.44] Metal nanoparticles@ZIF-8 nanocomposites as SERS tags for multiplex biodetection S. De Marchi Lourenço*, G. Bodelón, J. Pérez Juste, I. Pastoriza Santos <i>University of Vigo, Spain</i>

			Germany	CNRS, France, ³ Université Grenoble Alpes, France, ⁴ Institut Universitaire de France, France	
14:40-15:00	14:30-14:50 [SYM1.32] Multifunctional nanoparticles for regenerative repair of extracellular matrix in abdominal aortic aneurysms J. Fox ^{1,3} , A. Ramamurthi* ¹ ¹ Cleveland Clinic, USA, ² Case Western Reserve University, USA, ³ Cleveland State University, USA	14:40-15:10 FEATURED TALK: [SB-IN09] Designed chemical synthesis and assembly of uniform-sized nanoparticles for medical applications Taeghwan Hyeon, Seoul National University, Korea	14:40-15:00 [SYM3.33] Reticular chemistry and the development of novel MOFs with intricate topologies P.N. Trikalitis University of Crete, Greece	14:40-15:00 [SYM4.45] High Porous Coating For Enhanced Water Condensation M.B. Kaynar* ¹ , S.I. Shah ¹ ¹ Hacettepe University, Turkey, ² University of Delaware, USA	14:40-15:00 [SYM5.45] Ultrahigh supercapacitor performance on graphene based nanoporous carbon Z. Shuai, X. Shi, X. Chen, E. Mijowska* Elektrownia Pomorzany, Poland
15:00-15:20	14:50-15:10 [SYM1.33] Gating Membranes based on stimuli-responsive super-sandwich DNA structure M.A. Aboudzadeh*, T. Schäfer University of the Basque Country, POLYMAT Institute, Spain		15:00-15:20 [SYM3.34] Functional hybrid materials based on associated (organo)aluminosilicate layers for C-C bond forming reactions A. Gaona*, U. Díaz, A. Corma Instituto de Tecnología Química de Valencia, Spain	15:00-15:20 [SYM4.46] Hybrid gold-silica nanoparticles applied in organic photovoltaic solar cells T. Ribeiro*, C. Baleizão, J.P.S. Farinha Instituto Superior Técnico, Portugal	15:00-15:20 [SYM5.46] Synthesis of chiral self-assembly of plasmonic nanoparticles by using a helicoidal nanometric template J. Gao*, E. Pouget, R. Oda UMR-CNRS 5248, France
15:20-15:40	15:10-15:30 [SYM1.34] Robust nanobiocatalysts from hydrogel-coated single enzymes A. Beloqui, G. Delaittre* Karlsruhe Institute of Technology, Germany	15:10-15:30 [SYM2.32] Out-of-equilibrium, self-shaping of femtoliter droplets on nanopatterned and reactive hydrophilic coatings M. Faustini* ¹ , A. Cattoni ² , D. Grosso ¹ , A. Malchiere ³ , C. Boissiere ¹ , P. Steyer ³ , J. Peron ⁴ ¹ UPMC, France, ² LPN-CNRS, France, ³ INSA Lyon, France, ⁴ Université Paris Diderot, France	15:20-15:50 FEATURED TALK: [SC-IN08] Bio-inspired Murray materials for mass transfer and activity Bao-Lian Su, University of Namur (FUNDP), Belgium	15:20-15:40 [SYM4.47] Nanomechanical surfaces stress sensors fabricated by smart hybrid materials P. Escudero, J. Yeste, R. Villa, M. Alvarez* Instituto de Microelectronica de Barcelona (IMB-CNM, CSIC), Spain	15:20-15:40 [SYM5.47] Tailoring the structure of <i>Cladophora</i> nanocellulose towards a dialysis porous material with anti-coagulant properties I. Rocha*, N. Ferraz, A. Mihanlyan, M. Strömme, J. Lindh Uppsala University, Sweden
15:40-16:00	15:30-15:50 [SYM1.35] Multifunctional silica particles for the specific delivery of drugs A. Feinle*, S. Montes, A.B. Nagy, I. Gratz, N. Hüsing	15:30-15:50 [SYM2.33] Determination of reliable size distribution of nanomaterials in liquid phase by filed-flow fractionation H. Kato*, A. Nakamura, H. Banno		15:40-16:00 [SYM4.48] Development of rare-earth-free luminescent nanocomposites for LED-based lighting devices R. Boonsin* ¹ , F. Donat ² , D.	15:40-16:00 [SYM5.48] Structure-property relationships of new photochromic polyoxometalate/spiroderivative hybrid materials

	Paris Lodron University Salzburg, Austria	National Institute of Advanced Industrial Science and Technology (AIST), Japan		Boyer ¹ , G. Chadeyron ¹ , J-P. Roblin ¹ , R. Schneider ² , R. Mahiou ¹ ¹ SIGMA Clermont, France, ² Université de Lorraine, France	P. Bolle* ¹ , H. Serier-Brault ¹ , A. Dolbecq ² , O. Oms ² , P. Mialane ² , C. Menet ¹ , K. Hakouk ¹ , R. Dessapt ¹ ¹ Institut des Matériaux Jean Rouxel, Université de Nantes, France, ² Université de Versailles, France
15:50-17:15	Coffee Break and Continuation of Poster Sessions 3 Room: Pavilhão do Rio				
Room	Auditorium I Session chair: Luis M. Liz-Marzán				
17:15-18:00	TUTORIAL 3: Moving HAIRS: Towards adaptive, homeostatic materials Joanna Aizenberg, Harvard University, Cambridge, USA				
18:15-22:00	Conference Dinner				

Friday, 10 March 2017

Room	Auditorium I				
08:30-09:15	PLENARY LECTURE: [PLN05] Multifunctional nanomaterials for bioresorbable electronics John A. Rogers, University of Illinois, USA				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
09:20-10:20	Symposium A Session chair: Mathieu Surin	Symposium B Session chair: Petra Pötschke	Symposium C Session chair: Samuel Bernard	Symposium B1 Session chair: Serim Ilday	Symposium ABC Session chair: Nieves López-Salas
09:20-09:40	09:20-09:40 [SYM1.36] DNA-templated supramolecular assemblies and polymers M. Surin University of Mons, Belgium	09:20-09:50 FEATURED TALK: [SB-IN10] Effects of carbon nanotubes on properties of melt mixed polymer composites Petra Pötschke, Leibniz Institute of Polymer Research (IPF), Germany	09:20-09:40 [SYM3.35] Functional polymer-derived ceramics with tailored mesoporosity S. Bernard*, U.B. Demirci, A. Lale CNRS-Institut Européen des Membranes, France	09:20-09:40 [SYM4.49] Surface design of silica nanoparticles for multifunctional application I.V. Melnyk* ^{1,2} , V.V. Tomina ² , N.V. Stolyarchuk 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	09:20-09:40 [SYM5.49] Predicting the suitability of aqueous solutions of deep eutectic solvents for preparation of bicontinuous porous carbons via spinodal decomposition processes E. Posada, N. López-Salas*, M.L. Ferrer, R. Jiménez-Rioboo, M.C. Gutiérrez, F. del Monte Institute of Materials Sciences of Madrid, Spain

09:40-10:00	09:40-10:00 [SYM1.37] Magnetic nanoparticles conjugated with siderophores for rapid detection of pathogenic bacteria. D. Martínez-Matamoros* ¹ , J. Rodríguez ¹ , S. Castro-Gracia ¹ , M. Balado ² , A. Matamoros-Veloza ³ , M.A. Camargo-Valero ³ , M. Lemos ² , C. Jiménez ¹ ¹ Universidad de la Coruña, Spain, ² Universidad de Santiago de Compostela, Spain, ³ University of Leeds, UK		09:40-10:00 [SYM3.36] The enhanced gas separation performance by a novel construction of core-shell structure of MOFs Q. Gu* ^{1,2} , Y. He ² , J. Shang ² , J. Kimpton ¹ , P. Webley ² ¹ Australian Synchrotron, Australia, ² The University of Melbourne, Australia	09:40-10:00 [SYM4.50] On the reinforcement of elastomers with colloidal mixtures of silica and synthetic layered silicates J.G. Meier* ¹ , R. Córdova ¹ , D. Julve ² , M. Martínez ² , J. Perez ² ¹ Instituto Tecnológico de Aragón (ITAINNOVA), Spain, ² IQESIL S.A, Spain	09:40-10:00 [SYM5.50] Design of bio-hybrid materials by the individual encapsulation of cyanobacteria in a silica porous matrix C. Delneuve, E.P. Danloy, B.L. Su* University of Namur, Belgium
10:00-10:20	10:00-10:20 [SYM1.38] Pathway controlled self-assembly of addressable DNA microstructures R. Merindol*, S. Loescher, A. Walther Albert-Ludwigs-University Freiburg, Germany	09:50-10:10 [SYM2.34] Advanced optical 3D-microstructures elements made of sol-gel derived hybrids prepared by nano-imprint lithography (NIL) R. Gvishi* ¹ , S. Lightman ^{1,2} , O. Bar-On ² , J. Scheuer ² , A. Arie ² , P. Brenner ³ , T. Siegle ³ , C. Eschenbaum ³ , H. Kalt ³ , U. Lemmer ³ ¹ Soreq NRC, Israel, ² Tel Aviv University, Israel, ³ Karlsruhe Institute of Technology, Germany	10:00-10:20 [SYM3.37] Metalorganic lamellar hybrid materials based on 1D associated nanoribbons for controlled release of organic compounds J.M. Moreno* ¹ , I. Navarro ² , U. Díaz ¹ , J. Primo ² , A. Corma ¹ ¹ Instituto de Tecnología Química, Spain, ² Centro de Ecología Química Agrícola, Spain	10:00-10:20 [SYM4.51] 3D structures obtained by localized deposition of filaments with a wet electrospinning approach V. Salles*, L. Mollet, P. Vincent, A. Coleman, A. Brioude Université Claude Bernard Lyon 1, France	10:00-10:20 [SYM5.51] New phosphorous and silica containing hybrid materials for application as highly efficient flame retardants K. Peter*, D.C. Cortes Gomez, R.O. Maekiniemi, A. Pich, M. Moeller et al DWI-Leibniz-Institute for Interactive Materials, Germany
10:20-10:50	Coffee Break Room: Pavilhão do Rio				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
10:50-12:40	Symposium A Session chair: Luis M. Liz-Marzán & Attilio Marino	Symposium B Session chair: João Rocha & Robert Menzel	Symposium C Session chair: Bao-Lian Su	Symposium B1 Session chair: Biqiong Chen & Ralf Weberskirch	Symposium ABC Session chair: Nhiem Tran & Giuseppe Alonci
10:50-11:10	10:50-11:10 [SYM1.39] Nanoceria-doped gelatin nanofibers for neuronal regeneration A. Marino* ¹ , C. Tonda-Turo ² , D.	10:50-11:20 FEATURED TALK: [SB-IN11] Organic-inorganic hybrid nanomaterials for temperature sensing	10:50-11:10 [SYM3.38] Rational design of polymer-functionalized ordered mesoporous inorganic materials C. Gerardin ¹ , M. Mathonnat ^{1,2} , E.	10:50-11:10 [SYM4.52] Highly elastic and stretchable polymer-clay nanocomposite hydrogels X. Su, B. Chen*	10:50-11:10 [SYM5.52] Hierarchical nanostructures and cellular response of PDMS – tantalum oxide hybrid coatings

	De Pasquale ¹ , F. Ruini ² , G. Genchi ¹ , G. Ciardelli ² , G. Ciofani ^{1,2} <i>¹Italian Institute of Technology, Italy, ²Polytechnic University of Torino, Italy</i>	João Rocha, <i>Universidade de Aveiro, Portugal</i>	Molina ¹ , N. Marcotte* ¹ , P. Lacroix-Desmazes ¹ , M. In ² <i>¹Institute C. Gerhardt Montpellier, France, ²Laboratory C. Coulomb Montpellier, France</i>	<i>University of Sheffield, UK</i>	N. Tran* ¹ , P. Tran ² , K. Fox ¹ <i>¹RMIT University, Australia, ²Queensland University of Technology, Australia</i>
11:10-11:30	11:10-11:30 [SYM1.40] Hybrid core-shell gold nanoshell/silica nanomaterials: sol-gel synthesis and characterization of interfaces S. Soulé ¹ , J. Allouche* ¹ , J.C. Dupin ¹ , A.L. Bulteau ¹ , S. Faucher ¹ , G. Lespes ¹ , C. Aimé ² , B. Haye ² , T. Coradin ² , H. Martinez ¹ <i>¹Institut des Sciences Analytiques et de Physico-Chimie pour l'Environnement et les Matériaux (IPREM). CNRS/Université de Pau et des Pays de l'Adour, France, ²CNRS/Université Pierre et Marie Curie, France</i>	11:20-11:40 [SYM2.35] Multicomponent metal oxide mesocrystals: Synthesis, characterisation and application in photocatalysis D. Primc*, M. Niederberger <i>ETH Zurich, Switzerland</i>	11:10-11:30 [SYM3.39] Hierarchically porous nanozeolite-TiO₂ composite photocatalysts for fast adsorption and degradation of water pollutants L. Pinho, T. Barakat*, B.L. Su <i>University of Namur, Belgium</i>	11:10-11:30 [SYM4.53] Novel Optimized & Versatile Surface Chemical Engineering of Mechanically Robust Inorganic Tungsten Disulfide (WS₂) Nanotubes (f-INT-WS₂) - Potentiality for Nanoscale CNTs Replacement J.P. Lellouche <i>Bar-Ilan University, Israel</i>	11:10-11:30 [SYM5.53] Plasmonic Pd nanorods: Synthesis, sensing and catalytic capabilities S. Rodal-Cedeira ¹ , V. Montes-García ¹ , L. Polavarapu ² , A. Martucci ³ , S. Bals ⁴ , J. Pérez-Juste ¹ , I. Pastoriza-Santos* ¹ <i>¹University of Vigo, Spain, ²Ludwig Maximilian University of Munich, Germany, ³Università di Padova, Italy, ⁴University of Antwerp, Belgium</i>
11:30-11:50	11:30-11:50 [SYM1.41] Core-shell mesoporous silica nanoparticles for siRNA delivery K. Möller*, K. Müller, H. Engelke, C. Bräuchle, T. Bein <i>University of Munich (LMU), Germany</i>	11:40-12:00 [SYM2.36] Oriented self-assembled thin films of anisotropic nanoparticles for chiral plasmonics M. Pauly*, H. Hu, S. Sekar, V. Lemaire, G. Decher <i>Institut Charles Sadron, France</i>	11:30-12:00 FEATURED TALK: [SC-IN09] High porosity hydrogels through emulsion templating: Stimulus-response, superabsorbents, ion-exchange, and self-crosslinking Michael Silverstein, <i>Technion - Israel Institute of Technology, Israel</i>	11:30-11:50 [SYM4.54] PNIPAM-mesoporous hybrid materials via RAFT polymerization S. Schmidt* ¹ , S. Alberti ² , O. Azzaroni ² , G. Soler-Illia ³ , P. Vana ¹ <i>¹Georg-August-University Goettingen, Germany, ²INIFTA-CONICET-UNLP, Argentina, ³National University of San Martín, Argentina</i>	11:30-11:50 [SYM5.54] Design of magnetostrictive and ferrimagnetic cobalt ferrite nanocrystals as building blocks of flexible PVDF based multiferroic films. R. Breitwieser ¹ , C. Benosman ¹ , U. Acevedo ^{1,2} , M. Bibani ¹ , S. Mercone ³ , R. Valenzuela ^{1,2} , S. Ammar ¹ , F. Mammeri* ¹ <i>¹Université Paris Diderot, France, ²Universidad Nacional Autonoma de Mexico, Mexico, ³Université Paris Nord, France</i>
11:50-12:10	11:50-12:10 [SYM1.42] Enzyme-mimetic nanomaterials for sensitive	12:00-12:20 [SYM2.37] Pure and hybrid carbon nanostructure networks	12:00-12:20 [SYM3.40] Multifunctional hybrid networks based on	11:50-12:10 [SYM4.55] Synthesis and characterization of well-defined	11:50-12:10 [SYM5.55] Injectable hydrogels for innovative clinical

	<p>paper-based biosensing C.N. Loynachan*¹, M.R. Thomas¹, E. Gray², D.A. Richards², B. Miller², D. Kim³, V. Chudasama², T. Hyeon³, R. McKendry², M.M. Stevens¹ et al ¹Imperial College London, UK, ²University College London, UK, ³Seoul National University, Republic of Korea</p>	<p>as functional support frameworks in adsorption and catalysis R. Menzel*¹, D. Iruretagoyena², S. Barg², E. Saiz², M. Shaffer² ¹University of Leeds, UK, ²Imperial College London, UK</p>	<p>imidazolium salts multicarboxylate and lanthanide salts P. Farger, O. Toma, G. Rogez, P. Rabu, E. Delahaye* <i>Institut de Physique et Chimie des Matériaux de Strasbourg, France</i></p>	<p>nanoparticles based on bifunctional poly(2-oxazoline) macromonomers and a microemulsion process R. Weberskirch*, A.L. Kampmann, T. Grabe, C. Jaworski <i>TU Dortmund, Germany</i></p>	<p>applications G. Alonci*¹, F. Fiorini¹, P. Riva², S. Perretta², L. De Cola¹ ¹<i>Institut de Science et d'Ingénierie Supramoléculaires, France</i>, ²<i>University Hospital of Strasbourg, France</i></p>
12:10-12:30	<p>12:10-12:40 FEATURED TALK: [SA-IN08] Hybrid plasmonic materials for SERS biosensing and bioimaging Luis M. Liz-Marzán, <i>CIC biomaGUNE, Donostia-San Sebastián, Spain</i></p>	<p>12:20-12:40 [SYM2.38] 3D Printing of hybrid hydrogel containing mesoporous silica nanoparticles enabling a tunable particle release B. Baumann*¹, T. Jüngst², O. Wiltchka¹, S. Stichler², S. Feineis⁵, J. Groll², M. Lindén¹ ¹University of Ulm, Germany, ²University of Würzburg, Germany</p>	<p>12:20-12:40 [SYM3.41] Converting Water Adsorption and Capillary Condensation in Useable Forces with Simple Porous Inorganic Thin Films M. Boudot², H. Eletto³, D. Grosso*^{1,2} ¹IM2NP - University Aix Marseille, France, ²LCMCP - University Paris 6, France, ³Institut d'Alembert - Université Paris 6, France</p>	<p>12:10-12:30 [SYM4.56] 2D Hexagonal boron nitride (2D-hBN) explored as a potential electrocatalyst for the oxygen reduction reaction A.F. Khan*¹, E.P. Randviir¹, D.A.C. Brownson¹, X. Ji³, G.C. Smith², C.E. Banks¹ ¹Manchester Metropolitan University, UK, ²University of Chester, UK, ³Central South University, China</p>	<p>12:10-12:30 [SYM5.56] Functional hybrid microscaffolds with long-lasting biocidal effect M. Loureiro¹, E.R. Silva¹, O. Ferreira¹, J.C. Bordado¹, A.C. Marques*^{1,2} ¹Universidade de Lisboa, Portugal, ²New Atlantica Higher Education Institution, Portugal</p>
12:40-14:00	Lunch Room: Pavilion 1				
Rooms	Auditorium II	Auditorium I	Auditorium VI	Auditorium VII	Auditorium VIII
14:00-17:00	<p>Symposium A Session chair: Karin Möller</p>	<p>Symposium B Session chair: João Rocha & Mehdi Elsayed Moussa</p>	<p>Symposium C Session chair: Giulia Fornasieri & Enrica Gianotti</p>	<p>Symposium B1 Session chair: Krzysztof Rogacki & Birgit Weber</p>	<p>Symposium ABC Session chair: Haruhisa Kato</p>
14:00-14:20	<p>14:00-14:30 FEATURED TALK: [SA-IN09] Surface-bound enzymatic reactions organize microcapsules and protocells in solution Anna C. Balazs, <i>University of Pittsburgh, USA</i></p>	<p>14:00-14:20 [SYM2.39] From silylated peptide to hybrid biomaterials A. Mehdi <i>University of Montpellier, France</i></p>	<p>14:00-14:20 [SYM3.42] Elaboration of mixed oxide or alloy nanocrystals in a mesoporous matrix by controlled thermolysis of PBA/silica monoliths: New approach to obtain tailored functional nanomaterials G. Fornasieri*^{1,2}, V. Trannoy^{1,2}, A. Bleuzen^{1,2} ¹Université Paris-Saclay,</p>	<p>14:00-14:20 [SYM4.57] Ferromagnet-superconductor nanosized heterostructures for basic research and applications K. Rogacki*¹, M. Matusiak¹, H. Lochmajer¹, P. Przyslupski¹, L.V. Omelchenko², A. Soloviov² ¹Polish Academy of Sciences, Poland, ²National Academy of Science of Ukraine, Ukraine</p>	<p>14:00-14:20 [SYM5.57] Freezing induced self-assembly of amphiphilic molecules P-A. Albouy¹, S. Deville², A. Fulkar^{1,4}, K. Hakouk², M. Impéror-Clerc¹, M. Klotz*², Q. Liu¹, M. Marcellini², J. Perez³ ¹Université Paris-Saclay, France, ²CNRS/Saint-Gobain, France, ³SWING Beamline,</p>

			France, ² Université Paris Sud, France		France, ⁴ Indian Institute of Science Education and Research, France
14:20-14:40		14:20-14:40 [SYM2.40] Integrating plasmonic materials within core-shell nanowires: An electrochemical approach G.R. Bourret* ¹ , T. Ozel ² , C.A. Mirkin ² ¹ Paris-Lodron University of Salzburg, Austria, ² Northwestern University, USA	14:20-14:40 [SYM3.43] Synthesis, functionalization and application of porous polymer thin films and nanomembranes M. Tsotsalas Karlsruhe Institute of Technology (KIT), Germany	14:20-14:40 [SYM4.58] Self-assembled plasmonic particles efficiently regenerate cofactor molecules M. Grzelczak* ^{1,4} , A. Sánchez-Iglesias ¹ , J. Barroso ¹ , J. Juaristi ¹ , V. Pavlov ¹ , A. Chuvilin ^{2,4} , J.M. Taboada ³ ¹ CIC biomaGUNE, Spain, ² CIC nanoGUNE, Spain, ³ University of Extremadura, Spain, ⁴ Ikerbasque, Spain	14:20-14:40 [SYM5.58] Flexible, self-healing, and multiparametric chemical sensor T-P. Huynh et al Aarhus University, Denmark
14:40-15:00	14:30-14:50 [SYM1.43] Hyperbranched polymers prepared by RAFT-SCVP to fabricate temperature-responsive cell culture dishes and effect of polar functional groups Y. Sudo*, R. Kawai, Y. Nabae, T. Hayakawa, M. Kakimoto Tokyo Institute of Technology, Japan	14:40-15:10 FEATURED TALK: [SB-IN12] TBC Shu-Hong Yu, University of Science and Technology of China, P.R. China	14:40-15:00 [SYM3.44] The heterogenization of highly active Gold(I)-NHC catalysts on periodic mesoporous organosilicas E. De Canck*, F. Nahra, S.P. Nolan, P. Van Der Voort Ghent University, Belgium	14:40-15:00 [SYM4.59] A selenium-confined in MOF-derived hierarchically porous carbon for advanced lithium-selenium batteries C. Li* ² , Y. Li ¹ , B.L. Su ^{1,2} ¹ Wuhan University of Technology, China, ² Unamur, Belgium	14:40-15:00 [SYM5.59] Breakable hybrid organo-silica for drug delivery E.A. Prasetyanto*, L. De Cola Université de Strasbourg, France
15:00-15:20	14:50-15:10 [SYM1.44] New biomaterials based on antibiotics-ionic liquids and mesoporous silica materials S. Gago*, P.C. Rações, L.C. Branco Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa, Portugal		15:00-15:20 [SYM3.45] Multifunctional MOF nanoparticles via self-assembly U. Lächelt, R. Röder, P. Hirschle, T. Preiß, A. Zimpel, J. Rädler, E. Wagner, T. Bein, S. Wuttke* University Munich (LMU), Germany	15:00-15:20 [SYM4.60] Stimuli-responsive hybrid silica nanoparticles for smart delivery J.P.S. Farinha*, A.S. Rodrigues, T. Ribeiro, C. Baleizão IST-University of Lisbon, Portugal	15:00-15:20 [SYM5.60] Advanced PEGylation of gold nanoparticles F. Schulz* ^{1,2} , T. Vossmeier ¹ , H. Lange ^{1,2} ¹ University of Hamburg, Germany, ² The Hamburg Centre for Ultrafast Imaging (CUI), Germany
15:20-15:40	15:10-15:30 [SYM1.45] Responsive Biomaterials by using nanostructured polymer brushes	15:10-15:40 FEATURED TALK: [SB-IN13] Engineering functional hybrid polymer films for large	15:20-15:40 [SYM3.46] Catalytic performance of metal oxide nanoparticles supported on hollow carbon	15:20-15:40 [SYM4.61] PMMA-CeO₂ hybrid coatings for corrosion protection S.V. Harb*, A. Trentin, S.H.	15:20-15:40 [SYM5.61] Stretchable and transparent supercapacitors based on single-walled carbon

	P. Uhlmann* ^{1,5} , A. Revzin ² , M. Schubert ³ , A.K. Pannier ⁴ ¹ Leibniz-Institut für Polymerforschung Dresden e.V., Germany, ² University of California, USA, ³ University of Nebraska-Lincoln, USA	and complex surfaces José M. Asua, <i>University of the Basque Country UPV/EHU, Spain</i>	spheres in transfer hydrogenation of furfural C. Ochoa-Hernández*, G-H. Wang, J. Engelhardt, F. Schüth <i>Max-Planck-Institut für Kohlenforschung, Germany</i>	Pucinelli, C.V. Santilli, P. Hammer <i>Chemistry Institute of São Paulo State University (UNESP), Brazil</i>	nanotube films E. Gilshteyn ¹ , T. Kallio ² , P. Kanninen ² , E. Fedorovskaya ³ , A. Anisimov ⁴ , A. Nasibulin* ^{1,2} ¹ Skolkovo Institute of Science and Technology, Russia, ² Aalto University, Finland, ³ Nikolaev Institute of Inorganic Chemistry Siberian Branch of Russian Academy of Sciences, Russia, ⁴ Canatu Oy, Russia
15:40-16:00	15:30-15:50 [SYM1.46] A macroscopic H⁺ and Cl⁻ ions pump via reconstitution of EcClC membrane proteins in lipidic cubic mesophases C. Speziale* ¹ , L. Salvati Manni ² , C. Manatschal ² , E.M. Landau ² , R. Mezzenga ¹ ¹ Swiss Federal Institute of Technology in Zurich, Switzerland, ² University of Zurich, Switzerland	15:40-16:00 [SYM2.41] Porous organic-inorganic materials derived from zeolite UTL: Synthesis, structural and catalytic properties M. Shamzhy* ¹ , M. Opanasenko ^{2,1} , J. Cejka ^{1,2} ¹ Academy of Sciences of Czech Republic, Czech Republic, ² University in Prague, Czech Republic	15:40-16:10 FEATURED TALK: [SC-IN10] Polyvalent mesoporous nanosystem as drug carriers María Vallet-Regí, <i>Universidad Complutense de Madrid, Spain</i>	15:40-16:00 [SYM4.62] Synthesis of [Fe(L)(bipy)]_n spin crossover nanoparticles using blockcopolymer micelles O. Klimm, C. Göbel, S. Rosenfeldt, S. Förster, B. Weber* <i>Universität Bayreuth, Germany</i>	15:40-16:00 [SYM5.62] Fire retardant and mechanically strong hybrid foams for thermal insulation based on nanocellulose and clay K.S. Gordeyeva*, V. Apostolopoulou, L. Bergström <i>Stockholm University, Sweden</i>
16:00-16:20	15:50-16:10 [SYM1.47] A multiscale study of the synthesis of bioinspired silica materials A. Centi*, M. Jorge <i>University of Strathclyde, UK</i>	16:00-16:20 [SYM2.42] Preparation of polymer/silica hybrid particles by RAFT-mediated surfactant-free emulsion polymerization E. Bourgeat-Lami* ¹ , A.J.P.G. França ^{1,2} , T.C. Chaparro ^{1,2} , R.D. Silva ² , P-Y. Dugas ¹ , G.M. Alves ² , A.M. Santos ² ¹ Université Claude Bernard Lyon 1, France, ² University of São Paulo, Brazil		16:00-16:20 [SYM4.63] Titanium surface microgrooves and controlled dual release of bone morphogenic protein-2 and insulin-like growth factor-1 enhance osteoblastic differentiation of human mesenchymal stem cells S.W. Lee*, K.H. Lee <i>Kyung Hee University, Republic of Korea</i>	16:00-16:20 [SYM5.63] Pt-free fuel cell catalyst prepared by pyrolysis of polyimide nano-particles Y. Nabae <i>Tokyo Institute of Technology, Japan</i>
16:20-16:40	16:10-16:30 [SYM1.48] Highly porous, low weight biomorphic /biomimetic ecoceramics using cork wood as	16:20-16:40 [SYM2.43] Impedance study of poly(ionic liquid)/inorganic nanoparticle hybrids for room-	16:10-16:30 [SYM3.47] Creating accessible acid sites in hierarchical zeolites and zeotype materials	16:20-16:40 [SYM4.64] Development of glass coatings with antibacterial and photocatalytic activity	16:20-16:40 [SYM5.64] Bio-inspired multifunctional surface wrinkling based on mechanical

	<p>a natural sustainable template R.C. Pullar*, R.M. Novais, P. Marques, J. Amaral <i>University of Aveiro, Portugal</i></p>	<p>temperature CO₂ sensing C. Willa*¹, J. Yuan², M. Niederberger¹, D. Koziej¹ ¹ETH Zürich, Switzerland, ²MPI KG Potsdam, Germany</p>	<p>E. Gianotti*¹, A. Erigoni¹, C. Ivaldi¹, I. Miletto¹, R. Raja², L. Marchese¹ ¹Università del Piemonte Orientale, Italy, ²University of Southampton, UK</p>	<p>R.M. Huertas*¹, B. Oliveira¹, J. Serio¹, C. Nunes², M.T.B. Crespo¹, J. Crespo³, V.J. Pereira¹ ¹IBET, Portugal, ²LNEG, Portugal, ³NOVA, Portugal</p>	<p>buckling instability H. Endo <i>Toyama Prefectural University, Japan</i></p>
16:40-17:00	<p>16:30-16:50 [SYM1.49] Enzyme-mediated polymerization J. Horsch*¹, P. Wilke¹, M. Pretzler², A. Rompel², H.G. Börner¹ ¹Humboldt-Universität zu Berlin, Germany, ²Universität Wien, Austria</p>	<p>16:40-17:00 [SYM2.44] Enhancement of fluorescent properties in hybrid QDs/CeO₂ cross-linked PS/PMMA nanoparticles A. De San Luis*, M. Paulis, J.R. Leiza <i>Polymat/University of the Basque Country, Spain</i></p>	<p>16:30-16:50 [SYM3.48] Polymer-supported polyoxometalates: Catalytically active membranes for anthracene oxidation I. Romanenko*^{1,2}, M. Lechner³, C. Streb³, F.H. Schacher^{1,2} ¹Friedrich-Schiller-University Jena, Germany, ²Jena Center for Soft Matter, Germany, ³Ulm University, Germany</p>	<p>16:40-17:00 [SYM4.65] Nanoglue: Bioactive fumed nanoparticles for tissue gluing M.T. Matter¹, F. Starsich², A.A. Schlegel³, S.E. Pratsinis², I.K. Herrmann*¹ ¹Swiss Federal Laboratories for Materials Science and Technology (Empa) St Gallen, Switzerland, ²ETH Zurich, Switzerland, ³University Hospital Zurich, Switzerland</p>	<p>16:40-17:00 [SYM5.65] Bending buckling behaviours of open-tip carbon nanocones M.L. Liao <i>Air Force Institute of Technology, Taiwan</i></p>
17:05-17:20	<p>Conference Closing - R. Duhlev, <i>Conference Co-Chair, UK</i></p>				