

Day 1: Sunday 3 rd March 2013					
11:00-14:00	Registration, Congress Centre Foyer				
14:00-14:15	Welcome Remarks, Sirene Auditorium				
14:15-15:00	[Plenary 1] From Molecular Switches to Molecular Machines, Sir F. Stoddart, <i>Northwestern University, USA</i> Chaired by J. Livage Sirene Auditorium				
	SYMPOSIUM A		SYMPOSIUM B		SYMPOSIUM C
Room	Ulisse		Sirene		Nettuno
Session Chair	L. Nicolais		M. Antonietti		S. Jeon
15:00 – 15:20	[OA1] Biologically Inspired Synthesis of a Photocatalytically Active Membrane for Water Treatment N. Kinsinger ¹ , A. Dudchenko ¹ , D. Li ^{1,2} , D. Kisailus* ¹ , ¹ <i>UC Riverside, USA</i> , ² <i>Lawrence Berkeley National Laboratory, USA</i>		15:00 – 15:30 [Invited B1] Hybrid and nanostructured materials by ATRP K. Matyjaszewski, <i>Carnegie Mellon University, USA</i>		15:00 – 15:20 [OC1] Proton- and ion-gated permselectivity in mesoporous polymerhybrid thin films modified with phosphate-bearing, or light-activated, "caged" polymer brushes A. Brunsen* ^{1,2} , J. Cui ⁴ , C. Diaz ³ , A. delCampo ⁴ , G.J.A.A. Soler-Illia ^{2,6} , O. Azzaroni ^{5,6} , ¹ <i>Technische Universität Darmstadt, Germany</i> , ² <i>Comisión Nacional de Energía Atómica, Argentina</i> , ³ <i>Universidad de Buenos Aires, Argentina</i> , ⁴ <i>Max-Planck-Institut für Polymerforschung, Germany</i> , ⁵ <i>Universidad Nacional de La Plata, Argentina</i> , ⁶ <i>Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina</i>
15:20 – 15:40	[OA2] Biohybrids composed of amorphous calcium carbonate and nanocellulose crystals with different surface groups C. Schütz* ^{1,2} , S. Kochilas ^{1,3} , Z. Bacsik ¹ , J. Sort ⁴ , L. Bergström ¹ , G. Salazar-Alvarez ^{1,2} , ¹ <i>Department of Materials and Environmental Chemistry, Sweden</i> , ² <i>Wallenberg Wood Science Center, Sweden</i> , ³ <i>Université Pierre et Marie Curie, France</i> , ⁴ <i>Institució Catalana de Recerca i Estudis Avançats and Departament de Física, Spain</i>		15:30 – 16:00 [Featured B1] Interphase mechanisms in thermal degradation and fire retardance of polymer nanocomposites G. Camino, <i>Polytechnic of Torino, Italy</i>		15:20 – 15:40 [OC2] Bulk nanoporous gold with a hierarchical microstructure Z. Qi* ¹ , J. Weissmüller ^{1,2} , ¹ <i>Technische Universität Hamburg, Germany</i> , ² <i>Helmholtz-Zentrum Geesthacht, Germany</i>
15:40 – 16:00	[OA3] Bioactive alginate based scaffolds for osteochondral tissue repair S. Scaglione ¹ , L. Coluccino ¹ , M. Vassalli ² , I. Schizzi ³ , P. Stagnaro* ³ , ¹ <i>IEIT-CNR, Italy</i> , ² <i>IBF-CNR, Italy</i> , ³ <i>SMAC-CNR, Italy</i>				15:40 – 16:00 [OC3] Zeolite monoliths with controlled internal porous structure prepared by freeze casting S. Eslava*, C. Hartmann, E. Saiz, <i>Imperial College London, UK</i>
16:00 – 17:00	Coffee Break and Poster Session 1-Foyer				
Session Chair	P.A. Netti		G. Guerra		A. Brunsen
17:00 – 17:30	[Invited A1] Microengineered hydrogels for stem cell bioengineering and tissue regeneration A. Khademhosseini ^{1,2} , ¹ <i>Harvard Medical School, USA</i> , ² <i>Massachusetts Institute of Technology, USA</i>		17:00 – 17:20 [OB1] Synthesis and study of iron-based electrospun nanostructures - Application to innovative magnetic and actuating nanocomposites V. Salles* ¹ , T. Fiorido ¹ , L. Hu ¹ , L. Seveyrat ² , A. Brioude ¹ , J. Galineau ² , ¹ <i>Université Claude Bernard - Lyon 1, France</i> , ² <i>INSA de Lyon, France</i>		17:00 – 17:20 [OC4] Unique macroporous oxide films templated with non-close packed spherical copolymer aggregates T.K. Kimura, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
17:30 – 18:00	[Featured A1] Nanocomposites: A revolutionary material class L. Nicolais, <i>Università di Napoli Federico II, Italy</i>		17:20 – 17:40 [OB2] Monitoring metallic nanoparticle growth in situ via combined microfocus small angle X-ray scattering and raman spectroscopy techniques		17:20 – 17:40 [OC5] Selective transport in sub-nanometer porous membranes from cyclic peptides with tunable interior functionality B.A. Helms* ¹ , C. Li ^{1,2} , R. Hourani ^{1,2} , R. van der Weegen ¹ , T. Xu ¹

			M. Reynolds ^{*1} , M. Sztucki ¹ , A. Gourrier ^{1,2} , C. Montero ¹ , E. Di Cola ¹ , M. Burghammer ¹ , ¹ European Synchrotron Radiation Facility, France, ² Laboratoire Interdisciplinaire de Physique, France		² , ¹ Lawrence Berkeley National Laboratory, USA, ² University of California, USA
18:00 – 18:20	[OA4] Bioinspired materials for reversible attachment under wet conditions A. del Campo, <i>Max Planck Institute für Polymerforschung, Germany</i>	17:40 – 18:00	[OB3] High quality oxide nanoparticles dispersions in room temperature ionic liquids for the preparation of hybrid nanocomposites A.S.M. Wittmar ^{*1,2} , O. Mechling ^{1,2} , M. Ulbricht ^{1,2} , ¹ Lehrstuhl für Technische Chemie II, Universität Duisburg-Essen, Germany, ² CeNIDE – Centre for Nanointegration Duisburg-Essen, Germany	17:40 – 18:00	[OC6] Reverse Selective Removal of CO2 From H2 Using Mixed Matrix Membranes With Nanocomposite Fillers F. de Clippel*, A.L. Khan, A. Cano-Odena, M. Dusselier, I.F.J. Vankelecom, B.F. Sels, <i>KU Leuven, Belgium</i>
		18:00 – 18:20	[OB4] Tailor-made photomagnetic and magnetic properties in nanostructured oxide/prussian blue analogs nanocomposites A. Bleuzen*, G. Fornasieri, E. Delahaye, M. Aouadi, <i>Université Paris Sud, France</i>	18:00 – 18:20	[OC7] Enhanced stretchability from periodic, porous 3D nanostructures S. Jeon*, J. Park, C. Ahn, J.K. Hyun, <i>KAIST, Republic of Korea</i>
18:25 – 19:10	[Tutorial 1] Carbon- and carbon nitride hybrids for energy storage, electrocatalysis, and Mott-Schottky catalysis M. Antonietti, <i>Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Germany</i> Chaired by K. Matyjaszewski Sirene Auditorium				
19:10 – 21:00	Welcome Reception and Continuation of Poster Session 1-Foyer				

End of Day 1

Day 2: Monday, 4th March 2013

08:30–09:15	[Plenary 2] From nanostructured to hierarchically structured functional inorganic and hybrid solids C. Sanchez, <i>Collège de France, France</i> Chaired by G. Férey Sirene Auditorium
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SYMPOSIUM A

SYMPOSIUM B

SYMPOSIUM C

SYMPOSIUM B1

Room	Ulisse		Sirene		Nettuno		Tritone
Session Chair	W.L. Noorduin		G. Camino		F. Schüth		M. Bonchio
09:20 – 09:40	[OA5] On the role of microstructures in the toughening of fibrous scaffolds C.T. Koh*, M.L. Oyen, <i>Cambridge University, UK</i>	09:20 – 09:40	[OB5] Amino-functionalization of selected metal oxide microparticles M. Sakeye*, J.H. Smått, <i>Abo Akademi University, Finland</i>	09:20 – 09:50	[Featured C1] Open the blackbox: The mechanisms of formation of some MOFs G. Férey, <i>Academy of Sciences, France</i>	09:20 – 09:40	[OB17] Hybrid inorganic-organic thin film structures by atomic/molecular layer deposition P. Sundberg*, A. Sood, M. Karppinen, <i>Aalto University, Finland</i>
09:40 – 10:00	[OA6] Mesoporous silica nanoparticles possessing large pores loaded with plasmid DNA and siRNA for efficient gene delivery D.H. Min*, H.K. Na, S.R. Ryoo, <i>Seoul National University, Republic of Korea</i>	09:40 – 10:00	[OB6] Self-assembly of nanoparticles into supraparticles inside emulsion droplets J. Lacava*, T. Kraus, <i>Leibniz Institute for New Materials, Germany</i>			09:40 – 10:00	[OB18] Microwave-assisted synthesis of graphene-nanotube-palladium nanostructures and their electrochemical characteristics H.J. Kim ^{*1} , V. Sridhar ¹ , J.H. Jung ¹ , C.G. Lee ² , S.J. Park ³ , I.K. Oh ¹ , ¹ Korea Advanced Institute of Science and Technology, Republic of Korea, ² Sungkyunkwan University, Republic of

							Korea, ³ Inha University, Republic of Korea
10:00 – 10:20	[OA7] Dynamically adaptive bio photonics: Nanoscale protein assembly drives changes in iridescence in squid, guiding new approaches to dynamically tunable optical materials D. Morse*, D. DeMartini, A. Ghoshal, A. Sweeney, A. Holt, A. Tao, <i>University of California, Santa Barbara, USA</i>	10:00 – 10:20	[OB7] Au NPs modified hybrid thin films based on PPMA-<i>b</i>-PMMA G. He* ¹ , D. Pospiech ¹ , D. Jehnichen ¹ , A. Janke ¹ , M. Stamm ^{1,2} , B. Voit ^{1,3} , ¹ Leibniz-Institut für Polymerforschung Dresden e.V., Germany, ² Physical Chemistry and Physics of Polymers, Technische Universität Dresden, Germany, ³ Organic Chemistry of Polymers, Technische Universität Dresden, Germany	09:50 – 10:20	[Featured C2] Multifunctional hybrid organic-inorganic materials for multistep cascade reactions and control release A. Corma, <i>Universidad Politécnica de Valencia, Spain</i>	10:00 – 10:20	[OB19] Solubilization and self-assembly of carbon nanostructures and organic chromophores in water: A mechanochemical approach M. Mba* ¹ , A. Jiménez ² , F. Formaggio ¹ , M. Maggini ¹ , A. Moretto ¹ , ¹ Università di Padova, Italy, ² Universidad de Zaragoza, Spain
10:20 – 11:20	Coffee Break and Poster Session 2-Foyer						
Session Chair:	S.I. Stupp		C. Boissière		T. Brezesinski		P.H. Mutin
11:20 – 11:50	[Featured A2] A new concept in bioactive metals: Silver and copper doped with chlorhexidine are highly bactericidal towards pathogenic bacteria R. Ben-Knaz ¹ , R. Pedahzur ² , D. Avnir* ¹ , ¹ The Hebrew University of Jerusalem, Israel, ² Hadassah Academic College, Israel	11:20 – 11:40	[OB8] In-situ formed nanocomposites by application of a hyper branched polyalkoxysiloxane silica precursor K. Peter* ¹ , J. Faymonville ¹ , E. Klunker ² , X. Zhu ¹ , C. Hopmann ² , M. Moeller ¹ , ¹ DWI at Aachen University, Germany, ² IKV at Aachen University, Germany	11:20 – 11:40	[OC8] Microporous materials for in situ polymerization and selective inclusion of block copolymers to fabricate hierarchical supramolecular architectures A. Comotti, S. Bracco, M. Beretta, P. Sozzani*, <i>University of Milano Bicocca, Italy</i>	11:20 – 11:40	[OB20] Synthesis of ionogels: Which synthesis for which application? L. Viau*, A. Vioux, <i>IUniversité de Montpellier 2, France</i>
		11:40 – 12:00	[OB9] Preparation and biofilm formation on biocides-free siloxane nanocomposite antifouling coatings D. Akuzov ¹ , A. Kloeppel ¹ , F. Bruemmer ¹ , T. Vladkova* ¹ , ¹ University of Chemical Technology and Metallurgy, Bulgaria, ² Stuttgart University, Germany	11:40 – 12:00	[OC9] Dynamically porous materials based on halogen bonding P. Metrangolo* ^{1,2} , G. Cavallo ¹ , T. Pilati ¹ , G. Resnati ^{1,2} , G. Terraneo ^{1,2} , ¹ Politecnico di Milano, Italy, ² Istituto Italiano di Tecnologia, Italy	11:40 – 12:00	[OB21] Nanostructured organic-inorganic hybrid materials by twin polymerization P. Kitschke ¹ , H. Lang ¹ , A.A. Auer ² , S. Spange ¹ , A. Seifert ¹ , M. Mehring* ¹ , ¹ Technische Universität Chemnitz, Germany, ² MPI für Chemische Energiekonversion, Germany
11:50 – 12:10	[OA8] Bioinspired composites through magnetic control of Al₂O₃ platelets in epoxy matrices R. Libanori*, R.M. Erb, A.R. Studart, <i>ETH Zürich, Switzerland</i>	12:00 – 12:20	[OB10] Enhanced thermal conductivity over percolation threshold in phase separated polyimide blend films containing ZnO and MgO nanoparticles S. Ando*, T. Murakami, D. Yorifuji, <i>Tokyo Institute of Technology, Japan</i>	12:00 – 12:30	[Featured C3] A stöber coating method to construct uniform mesoporous materials shells for multifunctional core-shell structures D. Zhao, <i>Fudan University, China</i>	12:00 – 12:20	[OB34] Subnano-size metal particles in a dendrimer reactor K. Yamamoto, <i>Tokyo Institute of Technology, Japan</i>
12:10 – 12:30	[OA9] Hydration effect on the structural and mechanical properties of spider cuticle C. Valverde*, L. Bertinetti, Y. Politi, <i>Max-Planck Institute of Colloids and Interfaces, Germany</i>	12:20 – 12:40	[OB11] Tough magnetic nanocomposite hybrids based on nanofibrillated cellulose S. Galland* ¹ , R.T. Olsson ¹ , R.L. Andersson ² , M. Salajková ¹ , V. Ström ³ , L.A. Berglund ¹ , ¹ Wallenberg Wood Science Center, KTH, Sweden, ² Fibre and Polymer Technology, KTH, Sweden, ³ Materials Science and Engineering,			12:20 – 12:40	[OB23] Multipod-like polystyrene/silica clusters designed by seeded-growth emulsion polymerization: Towards colloidal molecules and functional materials E. Duguet* ¹ , A. Désert ^{1,2} , I. Chaduc ³ , J. Parvole ³ , A. Komla ⁴ , S. Ravaine ⁵ , ¹ ICMCB CNRS, France, ² CBMN, France, ³ CPE/CNRS, France, ⁴ CEA, France, ⁵ CRPP

			<i>KTH, Sweden</i>				<i>CNRS, France</i>
12:30 – 14:10	Lunch-San Antonio & Ginestre						
Session Chair:	D. Avnir		M. Antonietti		S. Inagaki		T. Peijs
14:10 – 14:40	[Invited A2] Emergence of complex structures by reaction-diffusion W.L. Noorduin*, L. Mahadevan, J. Aizenberg, <i>Harvard University, USA</i>	14:10 – 14:30	[OB12] Carbon nanotube scaffolds homogeneously mineralized by flow-through electrodeposition S. Nardecchia, M.C. Serrano, M.C. Gutierrez, M.L. Ferrer*, F. del Monte, <i>ICMM-CSIC, Spain</i>	14:10 – 14:30	[OC10] Functional monolithic polymeric organic framework with ag nanoparticles. Reducing properties and capturing of iodine vapors A.P. Katsoulidis*, M.G. Kanatzidis, <i>Northwestern University, USA</i>	14:10 – 14:30	[OB24] Assembling of magnetic iron oxide nanoparticles addressed by SAMS B.P. Pichon*, D. Toulemon, M. Pauly, S. Begin-Colin, <i>Institut de Physique et de Chimie des Matériaux de Strasbourg, France</i>
14:40 – 15:00	[OA10] Shell cross-linked HSA-PEG nanocapsules incorporating nanocrystals and insoluble anticancer drugs for theranostic applications Y.S. Nam*, J.Y. Lee, <i>Korea Advanced Institute of Science and Technology, Republic of Korea</i>	14:30 – 14:50	[OB13] Large-scale, self-assembled, functional nacre-mimetic nanocomposites A. Walther, <i>DWI at RWTH Aachen University, Germany</i>	14:30 – 14:50	[OC11] Lithographically patterned 3D graphene structures R.P. Polsky*, X.X. Xiao, T.B. Beechem, M.R. Rodriguez, J.M. Michael, B.B. Burckel, <i>Sandia National Laboratories, USA</i>	14:30 – 14:50	[OB25] Transparent nanostructured conductive thin films for controlled enzyme immobilization N. Heidary, A. Guet, A. Molero, A. Fischer*, <i>Technical University Berlin, Germany</i>
15:00 – 15:20	[OA11] Organic Electrochemical Transistors for Biosensing and Biomedical Applications G. Tarabella ¹ , A. Romeo ¹ , N. Coppedè ¹ , R. Mosca ¹ , F. Cicoira ^{1,2} , S. Iannotta* ¹ , ¹ IMEM - CNR Institute of Materials for Electronics and Magnetism - Parco Area delle Scienze, Italy, ² Ecole Polytechnique de Montréal,, Canada	14:50 – 15:20	[Featured B2] Assembly of nanoparticle and nanocellulose hybrids L. Bergström* ¹ , G. Salazar-Alvarez ¹ , ¹ Stockholm University, Sweden, ² Wallenberg Wood Science Center, Sweden	14:50 – 15:10	[OC12] Multifunctional water treatment membranes based on hierarchical nanoarchitectures C.A. Crock, A.R. Rogensues, W. Shan, V.V. Tarabara*, <i>Michigan State University, USA</i>	14:50 – 15:10	[OB26] Visible light-enhanced reactive adsorption of sulfur containing gases on Zn(OH)₂ /graphite oxide composites M. Seredych, O. Mabayoje, T.J. Bandosz*, <i>The City College of New York, USA</i>
15:20 – 15:40	[OA12] Smart self-rolled nanomembranes for nanorobotics S. Sanchez, <i>IFW Dresden, Germany</i>	15:20 – 15:50	[Invited B2] Functional hybrids with bioinspired reinforcement architectures A.R. Studart, <i>ETH Zurich, Switzerland</i>	15:10 – 15:30	[OC13] Assembling mesoporous electrodes from colloidal nanocrystal building blocks D.J. Milliron*, R. Buonsanti, B.A. Helms, N. Krins, T.E. Pick, T.J. Richardson, <i>Lawrence Berkeley National Laboratory, USA</i>	15:10 – 15:30	[OB27] DNA-directed self-assembly as a tool towards functional nanoscale hybrids J. Rodríguez-Fernández* ¹ , J. Do ¹ , R. Schreiber ² , A.A. Lutich ¹ , T. Liedl ² , J.Feldmann ¹ , ¹ Photonics&Optoelectronics Group, Ludwig-Maximilians-Universität, Germany, ² Molecular Self-Assembly&Nanoengineering Group, Ludwig-Maximilians-Universität, Germany
15:40 – 16:00	[OA13] The application of lanthanide-to-quantum dot resonance energy transfer in protein detection P.J. Cywinski* ⁴ , L. Olejko ¹ , T. Hammann ¹ , L. Charbonnière ² , H. Härmä ³ , H-G. Löhmannsröben ¹ , ¹ University of Potsdam, Germany,	15:50 – 16:10	[OB14] Magnetic relaxation in bismuth ferrite microcubes A. Andrzejewski* ¹ , K. Chybczynska ¹ , B. Hilczar ¹ , B. Leska ² , R. Pankiewicz ² , P. Cieluch ³ , ¹ PAS, Poland, ² Adam Mickiewicz Univeristy, Poland, ³ National Research Institute, Poland	15:30 – 15:50	[OC14] New porous support for polymer electrolyte membrane fuel cells C. Chappay* ¹ , Q.T. Nguyen ¹ , V. Ratieuville ¹ , K. Fatyeyeva ¹ , S. Marais ¹ , J.Y. Sanchez ² , ¹ University of Rouen, France, ² University J. Fourier, France	15:30 – 15:50	[OB28] Hydrophobic interactions modulate self-assembly of gold nanoparticles A. Sánchez-Iglesias ^{1,2} , M. Grzelczak* ¹ , T. Altantzis ⁴ , B. Goris ⁴ , J. Perez-Juste ² , S. Bals ⁴ , ¹ CIC biomaGUNE, Spain, ² Universidade de Vigo, Spain, ³ Ikerbasque, Basque Foundation for

	² University of Strasbourg, France, ³ University of Turku, Finland, ⁴ Fraunhofer Institute for Applied Polymer Research, Germany						Science, Spain, ⁴ University of Antwerp, Belgium, ⁵ University of California, USA	
16:00 – 16:20	[OA14] Modification of decellularized extracellular matrix with click chemistry for tissue engineering C. Cai* ¹ , L. Wang ^{1,2} , M. Zhao ¹ , S. Li ¹ , L. Ren ² , Y. Wang ² , ¹ University of Houston, USA, ² South China University of Technology, China	16:10 – 16:30	[OB15] Magnetic, magneto-transport and magneto-optical properties in arrays of multifunctional NPs M. Pauly, S. Fleutot, Y. Liu*, B. Pichon, S. Begin-Colin, CNRS, France	15:50 – 16:10	[OC15] Ordered large-pore mesoporous Li₄Ti₅O₁₂ and AMoO₄ (A = Co, Ni, Mg) thin films with nanocrystalline walls for application in high rate rechargeable lithium batteries J. Haetge ¹ , K. Brezesinski ¹ , P. Hartmann ¹ , J. Janek ¹ , T. Brezesinski* ^{1,2} , ¹ University Giessen, Germany, ² Karlsruhe Institute of Technology, Germany	15:50 – 16:10	[OB29] Biomimetic nanocomposites from amyloid fibril hybrids C. Li, S. Bolisetty, J. Adamcik, R. Mezzenga*, ETH Zurich, Switzerland	
						16:10 – 16:30	[OB30] Clay nanotubes with sustained release of chemical agents for smart hybrid materials (anticorrosion and antimicrobial) Y.M. Lvov, Louisiana Technology University, USA	
16:20 – 16:40	[OA15] Sperm-flagella driven micromotor V. Magdanz* ¹ , S. Sanchez ¹ , O.G. Schmidt ^{1,2} , ¹ Institute for Integrative Nanosciences, Germany, ² Chemnitz University of Technology, Germany	16:30 – 16:50	[OB16] Hybrid materials of graphene nanobubbles and iron carbide S. Glatzel, M. Antonietti, C. Giordano*, Max-Planck-Institute of Colloids and Interfaces, Germany	16:10 – 16:40	[Featured C4] Porous Solids as a Matrix for High Performance Catalysts F. Schüth, Max-Planck-Institut für Kohlenforschung, Germany	16:30 – 16:50	[OB31] Multi-functionalized Polyhedral Oligomeric Silsesquioxane (POSS): Promising materials for surface chemistry O. Lorret* ¹ , J. Kastner ¹ , B. Dittert ¹ , M. Salaün ² , M. Zelsmann ² , M.A. Morris ³ , ¹ Profactor GmbH, Austria, ² CNRS-CEA, France, ³ University College Cork, Ireland	
16:40 – 17:15	Coffee Break -Foyer							
17:15 – 18:00	[Tutorial 2] Supramolecular materials S.I. Stupp, Northwestern University, USA Chaired by M. Antonietti Sirene Auditorium							
18:00 – 19:30	Continuation of Poster Session 2-Foyer							
End of Day 2								
Day 3: Tuesday, 5 th March 2013								
8:00–08:45	[Plenary 3] Silica@cells: A special hybrid interface C.J. Brinker* ^{1,2} , C. Ashley ² , E. Carnes ² , B. Kaehr ² , D. Dunphy ¹ , J. Townson ¹ , ¹ The University of New Mexico, USA, ² Sandia National Laboratories, USA Chaired by K. Kuroda Sirene Auditorium							
	SYMPOSIUM A		SYMPOSIUM B			SYMPOSIUM C		
Room	Ulisse		Sirene			Nettuno		
Session Chair	J. Livage		S.H. Yu			C.J. Brinker		
8:50 – 9:10	[OA16] An intelligent multi-responsive hybrid nanochannels based on bacteriorhodopsin (bR) multilayers Z.B. Guo*, D.W. Liang, Y. Xiang, Beihang University, China		8:50 – 9:20	[Invited B3] Mesoporous nanostructures for energy conversion and storage T. Bein, University of Munich, Germany		8:50 – 9:10	[OC16] Femtosecond dynamics of Nile red within silica-based mesoporous materials A. Douhal, University of Castilla La Mancha, Spain	

9:10 – 9:30	[OA17] Hybrid nano-helix : From the organic self-assembly to the design of functional nanostructures E.P. Pouget ^{1,2} , R.K.D. Das ^{1,2} , D.D. Dedovets ^{1,2} , O.F.Z. Zouani ^{1,2} , M.C.D. Durrieu ^{1,2} , R.O. Oda ^{1,2} , ¹ CNRS, France, ² IECB, France	9:20 – 9:50	[Featured B3] Functional porous materials by encapsulation and growth of gold nanoparticles P.A. Angelomé ^{1,2} , V. López-Puente ¹ , S. Abalde-Cela ¹ , L.M. Liz-Marzán ^{1,3} , ¹ Universidad de Vigo, Spain, ² Comisión Nacional de Energía Atómica, Argentina, ³ CIC biomaGUNE, Spain, ⁴ Basque Foundation for Science, Spain	9:10 – 9:30	[OC17] Fluorescent hybrid mesoporous silica nanoparticles as platform for imaging and solar cells T. Ribeiro, A.S. Rodrigues, J.P.S. Farinha, C. Baleizão*, <i>Technical University of Lisbon, Portugal</i>
9:30 – 9:50	[OA18] Simple pathway to fabricate photochromic hybrid nanopapers based on bacterial cellulose J. Gutierrez*, S.C. Fernandes, I. Mondragon, A. Tercjak, <i>University of the Basque Country, Spain</i>			9:30 – 9:50	[OC18] Ionosilicas: Periodic mesoporous organosilicas from ionic precursors P. Hesemann*, T.P. Nguyen, S. El Hankari, B. Motos-Pérez, <i>Institute Charles Gerhardt de Montpellier, France</i>
9:50 – 10:50	Coffee break and Poster Session 3-Foyer				
Session Chair	P.A. Netti		S.H. Yu		A. Douhal
10:50 – 11:10	[OA19] 'Deterministic' biomaterial platforms for directing stem cell fate choices J.J. Cooper-White, <i>The University of Queensland, Australia</i>	10:50 – 11:10	[OB32] ZnO/PVA macroscopic fibers bearing anisotropic photonic properties N. Kinadjian ^{1,2} , M.F. Achard ¹ , B. Julián-López ³ , P. Poulin ¹ , E. Prouzet ² , R. Backov ¹ , ¹ Université de Bordeaux, France, ² University of Waterloo, Canada, ³ Universitat Jaume I, Spain	11:00 – 11:20	[OC18a] Direct synthesis of mesoporous polymer by polymerizable gemini-type surfactants H. Sakai ^{1,2} , K. Ogura ¹ , K. Tsuchiya ² , T. Endo ¹ , K. Sakai ^{1,2} and M. Abe ^{1,2} ¹ Faculty of Science and Technology, Tokyo University of Science, Japan ² Research Institute of Science and Technology, Tokyo University of Science, Japan
11:10 – 11:30	[OA20] Superhydrophobic-superhydrophilic polymer micropatterns for cell patterning and cell screening applications P.A. Levkin ¹ , ¹ Karlsruhe Institute of Technology, Germany, ² Heidelberg University, Germany	11:10 – 11:30	[OB33] Hydrothermal synthesis of a stable and aqueous TiO₂ dispersion for the deposition of nanostructures B. Souvereys ¹ , C. De Dobbelaere ¹ , V. Meynen ² , P. Cool ² , A. Hardy ^{1,3} , M.K. Van Bael ^{1,3} , ¹ Hasselt University, Belgium, ² University of Antwerp, Belgium, ³ IMEC vzw, Belgium		
11:30 – 12:00	[Featured A3] Designing bio-inorganic nanomaterials for ultrasensitive biosensing M. M. Stevens, <i>Imperial College London, UK</i>	11:30 – 11:50	[OB22] Nanocomposites from block copolymer lamellar nanostructures and selective gold deposition C. De Rosa ¹ , F. Auriemma ¹ , C. Diletto ^{1,2} , R. Di Girolamo ¹ , P. Morvillo ² , ¹ University of Naples Federico II, Italy, ² Italian National Agency for New Technologies, Italy	11:20 – 11:40	[OC19] Spindle-like mesoporous α-Fe₂O₃ anode material prepared from MOF template for high rate lithium batteries X. Xu*, J.P. Cho, <i>Ulsan National Institute of Science and Technology, Republic of Korea</i>
		11:50 – 12:10	[OB35] Structurally tunable and reversible exciton emission switching studies in mixed inorganic-organic hybrids S. Ahmad ¹ , J. Jeremy Baumberg ² , G. Vijaya Prakash ¹ , ¹ Indian Institute of Technology, India, ² University of Cambridge, UK	11:40 – 12:00	[OC20] Mesoporous organosilica hybrids for energy-related applications S. Inagaki, <i>Toyota Central R&D Labs., Inc., Japan</i>
12:00 – 13:30	Continuation of Poster Session 3-Foyer	12:10– 13:30	Continuation of Poster Session 3-Foyer	12:00 – 13:30	Continuation of Poster Session 3-Foyer
End of Day 3: FREE AFTERNOON AND EVENING					
Day 4: Wednesday, 6th March 2013					
08:30 – 09:15	[Plenary 4] Generating and sustaining force. Structure and function of natural hybrid materials P. Fratzl, <i>Max Planck Institute of Colloids and Interfaces, Germany</i> Chaired by M. Antonietti Sirene Auditorium				

SYMPOSIUM A		SYMPOSIUM B		SYMPOSIUM C	
Room	Ulisse		Sirene		Nettuno
Session Chair	J.I. Zink		L.M. Liz-Marzán		J. Long
9:20 – 9:40	[OA21] Magnetic hybrid systems for nanomedicine applications G. Béalle, A. Seth, V. Dupuis, A. Abou-Hassan, J.M. Siaugue, C. Ménager*, <i>Université Pierre et Marie Curie, France</i>	9:20 – 9:40	[OB36] Aerosol-photopolymerization for hybrid nanoparticles with different structures E. Akgün*, W. Gerlinger ² , M. Wörner ¹ , B. Sachweh ² , J. Hubbuch ¹ , ¹ KIT, Germany, ² BASF, Germany	9:20 – 9:50	[Featured C6] Meso-domain control of porous coordination polymer crystals S. Kitagawa ^{1,2} , ¹ Kyoto University, Japan, ² JST, Japan
9:40 – 10:00	[OA22] Photo-driven molecular release by mesoporous silica functionalized with organic impellers A. Franco* ^{1,2} , J. García-Macedo ¹ , J.I. Zink ³ , ¹ Universidad Nacional Autónoma de México, Mexico, ² Universidad Tecnológica Fidel Velázquez, Mexico, ³ University of California, USA	9:40 – 10:00	[OB37] Solution synthesis of germanium nanoparticles via thermal decomposition of organometallics precursors W.S. Ojo* ¹ , D. Matioszek ² , C. Nayral ¹ , F. Delpéch ¹ , A. Castel ² , B. Chaudret ¹ , ¹ Institut National des Sciences Appliquées, France, ² Université Paul Sabatier, France	9:50 – 10:10	[OC21] Gas chromatography with MOF based PLOT T. Böhle, A. Münch, F. Mertens*, <i>TU Bergakademie Freiberg, Germany</i>
10:00 – 10:20	[OA23] Biomimetic polymeric-based nano hybrids for cancer theranostics P. Taboada* ¹ , A. Topete ¹ , P. Iglesias ² , ¹ Grupo de Física de Coloides y Polimeros, Universidad de Santiago de Compostela, Spain, ² Grupo de Oncología Molecular, Universidad de Santiago de Compostela, Spain	10:00 – 10:20	[OB38] Physico-chemical properties and photocatalytic activity of calcined P-doped and P/Ag-doped TiO₂ xerogels C. Bodson ¹ , S.L. Pirard ¹ , R. Pirard ¹ , X. Cattoen ² , M. Wong Chi Man ² , S.D. Lambert* ¹ , ¹ University of Liege, Belgium, ² Institute Charles Gerhardt Montpellier, France	10:10 – 10:30	[OC22] Exploring magnetic and catalytic properties of metal-organic frameworks from first principles Q.J. Zhang, L. Chen*, <i>Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, China</i>
10:20 – 10:50	Coffee Break-Foyer	10:20 – 10:50	Coffee Break-Foyer	10:30 – 10:50	Coffee Break-Foyer
Session Chair	M. Fontecave		T. Bein		S. Kitagawa
10:50 – 11:20	[Featured A4] Mechanized multifunctional nanoparticles for <i>in vitro</i> and <i>in vivo</i> targeting, imaging and drug delivery J.I. Zink, <i>UCLA, USA</i>	10:50 – 11:10	[OB39] Time-limitable hydrogels controlled by self-assembly of collagen-mimetic peptides N. Higashi*, T. Koga, <i>Doshisha University, Japan</i>	10:50 – 11:10	[OC23] Metal-organic frameworks in catalysis D. Farrusseng, J. Canivet*, <i>CNRS, France</i>
11:20 – 11:40	[OA24] Organic nanotubes: Intelligent nanocapsules for controlled drug release W. Ding, N. Kameta, H. Minamikawa, T. Shimizu, M. Masuda*, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>	11:10 – 11:30	[OB40] Hydrogen peroxide as a capping agent for sol stabilization of non transition elements and a generic way to deposit thin oxide films on particulates P.V. Prikhodchenko* ¹ , S. Sladkevich ² , J. Gun ² , O. Lev ² , ¹ Russian Academy of Sciences, Russia, ² The Hebrew University of Jerusalem, Israel	11:10 – 11:30	[OC24] Chiral MOFs from new fluorene-based ligands for enantioselective catalysis and separation J. Robin*, N. Audebrand, C. Poriol, <i>Université de Rennes1, France</i>
11:40 – 12:00	[OA25] Self-assembly of natural and fluorinated-tagged proteins at fluorinated interfaces R. Milani* ¹ , P. Metrangolo ^{3,1} , M. Linder ¹ , G. Resnati ^{3,2} , E. Monogioudi ¹ , M. Baldrihi ³ , ¹ VTT Technical Research Centre of Finland, Finland, ² Istituto Italiano di Tecnologia, Italy, ³ Politecnico di Milano, Italy	11:30 – 12:00	[Featured B4] Ultrathin nanowires: Multiplex templating synthesis, macroscopic assemblies, and applications S.H. Yu, <i>University of Science and Technology of China, China</i>	11:30 – 11:50	[OC25] A new route for the synthesis of metal-organic framework : HT/HP conditions and supercritical fluids L. Darras* ¹ , L. Rozes ¹ , C. Sassoie ¹ , C. Sanchez ¹ , S. Marre ² , C. Aymonier ² , ¹ Université Pierre et Marie Curie, France, ² Université de Bordeaux 1, France
12:00 – 12:20	[OA26] Nanostructured multifunctional soft materials: From fundamental studies to applications in nanomedicine D. Berti, <i>University of Florence, Italy</i>	12:00 – 12:20	[OB41] Cross-linking of 2D metal cyanide networks by sol-gel processing E. Felbermair*, U. Schubert, <i>Vienna University of Technology, Austria</i>	11:50 – 12:10	[OC26] Metal-organic frameworks (MOFs) as photocatalysts for CO₂ reduction under visible light D.R. Sun*, Y.H. Fu, X.Z. Fu, Z.H. Li, <i>Fuzhou University, China</i>

12:20 – 12:40	[OA27] Aptavalves for stimulus-responsive hybrid nanodevices A. Pinto* ¹ , F.J. Hernandez ³ , L.I. Hernandez ³ , M.B. Serrano Santos ¹ , V.C. Özalp ² , T. Schäfer ^{1,4} , ¹ University of the Basque Country, Spain, ² Middle East Technical University, Turkey, ³ University of Iowa, USA, ⁴ Basque Foundation for Science, Spain	12:20 – 12:40	[OB42] Morphological improvement of hybrid TiO₂/PS-b-PEO nanocomposites by rapid solvent annealing G. Chieffi* ¹ , A. Aronne ¹ , F. Auremma ¹ , C. De Rosa ¹ , R. Di Girolamo ¹ , M. Lazzari ² , ¹ University of Naples Federico II, Italy, ² University of Santiago de Compostela, Spain	12:10 – 12:40	[Invited C1] Carbon dioxide capture in metal-organic frameworks J. Long*, T. McDonald, E. Bloch, Z. Herm, J. Mason, K. Sumida, B. Wiers, <i>University of California, USA</i>
12:40 – 14:10	Lunch-San Antonio & Ginestre				
Session Chair	P. Fratzl		TBC		K. Kuroda
14:10 – 14:40	[Invited A3] Biohybrid and bioinspired catalysts for hydrogen production M. Fontecave, <i>Collège de France, France</i>	14:10 – 14:30	[OB43] Functional porous nanoparticles for biotechnological applications N.S. Kehr, <i>University of Münster, German</i>	14:10 – 14:30	[OC27] Original mesoporous hybrid thin film architectures to study the distance dependence of the photocatalytic efficiency of TiO₂ A. Carretero-Genevri, C. Boissière, L. Nicole, D. Grosso*, <i>LCMLaboratoire de Chimie de la Matière Condensée de Paris, UMR7574 Collège de France, France</i>
14:40 – 15:00	[OA28] Natural phospholipids-templated silica as efficient strategy for polyenzymatic encapsulation and production of methanol from CO₂ A. Galarneau, R. Cazelles*, <i>Institut Charles Gerhardt Montpellier, France</i>	14:30 – 14:50	[OB44] Electro-optics devices based on hybrid glassy materials by UV-curable sol-gel process R. Gvishi*, M. Pokrass, G. Sturm, G. Bar, R. Dror, <i>Applied Physics Division, Soreq, Israel</i>	14:30 – 14:50	[OC28] Bifunctional catalysts with mesoporous structure for one-step dimethyl ether synthesis H. Jiang*, H. Bongard, W. Schmidt, F. Schüth, <i>Max-Planck-Institut für Kohlenforschung, Germany</i>
15:00 – 15:20	[OA29] Novel nucleotide-polymer coacervates as highly versatile, semi-synthetic, biomimetic microreactors D.S. Williams* ¹ , C.R.C. Hak ¹ , S. Koga ² , A.J. Patil ¹ , A.W. Perriman ¹ , S. Mann ¹ , ¹ University of Bristol, UK, ² Mitsubishi Chemical, Japan	14:50 – 15:20	[Featured B5] Oxide nanoparticles, mesoporous xerogels and hierarchical nanostructures by non-hydrolytic sol-gel P.H. Mutin*, K. Bouchmella, B. Boury, A. Vioux, <i>Université Montpellier 2, France</i>	14:50 – 15:10	[OC29] Using the formation of calixarene porous polymorphs for a genuine molecular recognition V.V. Gorbachuk, M.A. Ziganshin, S.F. Galyaltdinov*, G.D. Safina, <i>Kazan Federal University, Russia</i>
15:20 – 15:40	[OA30] A host guest self-assembling dendrimers exploited to trigger receptor preclustering induced VEGF signaling pathway on molecular printboard P. Jonkheijm, T. Satav*, <i>University of Twente, The Netherlands</i>	15:20 – 15:50	[Featured B6] Chemical modification as a versatile tool for tuning stability of silica based mesoporous carriers in biological relevant conditions C. Boissière* ¹ , T. Fontecave ^{1,2} , T. Azais ^{1,2} , C. Sanchez ¹ , ¹ Collège de France, France, ² UPMC Université, France	15:10 – 15:30	[OC30] Photocatalytic efficiency of mesoporous TiO₂ films doped with Ag-nanoparticles Y. Castro* ¹ , M.V. Roldána ² , N. Pellegrini ² , A. Durán ¹ , ¹ CSIC, Spain, ² IFIR-CONICET, Argentina
15:40 – 16:00	[OA31] (Bio)-amphiphilic compounds as biohybrid materials: The case of peptidolipids and glycolipids H.L. Razafindralambo, <i>University of Liege, Belgium</i>	15:50 – 16:10	[OB45] Facile synthesis of marshmallow-like gel derived from silicon alkoxides as co-precursor and their applications G. Hayase*, K. Kanamori, K. Nakanishi, <i>Kyoto University, Japan</i>	15:30 – 15:50	[OC31] Monoliths with hierarchical porosity for high diffusion in catalytic processes and radioactive wastewater treatment in flow A. Galarneau, A. Sachse*, F. Fajula, <i>Institut Charles Gerhardt Montpellier, France</i>
16:00 – 16:20	[OA32] Bio-inspired magnetoelastic sentinels for screening staphylococcus aureus N. Hiremath ¹ , S. Li ¹ , R. Guntupalli ² , V. Vodyanoy ² , A. Simonian ¹ , B.A. Chin* ¹ , ¹ Materials Research and Education Center, Auburn University, USA, ² Department of Anatomy, Auburn University, USA	16:10 – 16:30	[OB46] Nanoconfined ammonia borane as a promising hydrogen storage medium G. Srinivas*, Z.X. Guo, <i>University College London, UK</i>	15:50 – 16:10	[OC32] Hierarchically porous hydrogen silsesquioxane monoliths for catalytic applications K. Nakanishi* ¹ , M. Nirmalya ¹ , T. Shimada ² , K. Kanamori ¹ , ¹ Kyoto University, Japan, ² Nara National College of Technology, Japan
16:20 – 16:40	[OA33] Development of a novel theranostic versatile platform from titanate nanotubes: study of their biodistribution	16:30 – 16:50	[OB47] Reversible two-way shape memory capabilities of polymer networks from sol-gel cross-linked alkoxy silane-terminated poly(epsilon-	16:10 – 16:40	[Invited C2] Multi-dimensional materials for energy storage: Lithium batteries P. G. Bruce* ¹ , A. R. Armstrong ¹ , Y. G Andreev ¹ , Y. Ren ² , S. Brutti ³ ,

	J. Boudon ¹ , J. Paris ¹ , R. Mayap Talom ¹ , F. Denat ² , B. Collin ³ , N. Millot ¹ , F. Bouyer* ¹ , ¹ Laboratoire Interdisciplinaire Carnot de Bourgogne, UMR 6303 CNRS/Université de Bourgogne, France, ² Institut de Chimie Moléculaire de l'Université de Bourgogne, UMR 6302 CNRS/Université de Bourgogne, France, ³ Centre Georges François Leclerc, Dijon, France		caprolactone) K. Paderni* ¹ , M. Messori ¹ , M. Toselli ² , F. Pilati ¹ , S. Pandini ³ , F. Baldi ³ , ¹ University of Modena and Reggio Emilia, Italy, ² University of Bologna, Italy, ³ University of Brescia, Italy, ⁴ Chemistry for Technologies Laboratory, University of Brescia, Italy		¹ University of St Andrews, UK, ² National Institute of Clean & Low Carbon Energy, China, ³ degli Studi di Roma "La Sapienza", Italy
16:40 – 17:15	Coffee Break-Foyer	16:50 – 17:15	Coffee Break-Foyer	16:40 – 17:15	Coffee Break-Foyer
17:15 – 18:00	[Tutorial 3] Functional porous materials - Preparation and applications K. Kuroda, <i>Waseda University, Japan</i> Chaired by C. J. Brinker Sirene Auditorium				
19:30 – 22:30	Conference Dinner- at Ristorante O' Parrucchiano (Optional – ticket required)				
End of Day 4					
Day 5: Thursday, 7th March 2013					
08:30–09:15	[Plenary 5] Structural control from molecular up to macroscopic size regimes for developing functional soft materials T. Aida, <i>The University of Tokyo, Japan</i> Chair: TBC Sirene Auditorium				
	SYMPOSIUM A		SYMPOSIUM B		SYMPOSIUM C
Room	Ulisse		Sirene		Nettuno
Session Chair	L. Jiang		A.R. Studart		A. Sachse
9:20 – 9:40	[OA34] 3D ceramic scaffolds for bone regeneration functionalized through modular peptides A. Polini* ¹ , C.B. Mao ^{1,2} , A.P. Tomsia ¹ , ¹ Materials Sciences Division, USA, ² University of Oklahoma, USA	9:20 – 9:50	[Featured B7] Synthesis of functional carbon materials for energy-related applications S. Dai, <i>Oak Ridge National Laboratory, USA</i>	9:20 – 9:40	[OC33] Amphoteric hybrid mesoporous materials as local antibiotic delivery systems M. Colilla* ^{1,2} , Z. Vargas ¹ , M. Vallet-Regi ^{1,2} , ¹ Universidad Complutense de Madrid, Madrid, Spain, ² Networking Research Center on Bioengineering, Spain
9:40 – 10:00	[OA35] On mimicking the structural anisotropy found in the material bone J. Seto*, H. Coelfen, <i>Universitaet Konstanz, Germany</i>	9:50– 10:20	[Featured B8] Shaping the beating heart of artificial photosynthesis: Oxygenic nano-hybrid interfaces M. Bonchio, <i>Università degli Studi di Padova, Italy</i>	9:40 – 10:00	[OC34] On surface synthesis of highly ordered single-layer covalent organic frameworks D. Wang*, C.Z. Guan, X.H. Liu, L.J. Wan, <i>Chinese Academy of Sciences, China</i>
10:00 – 10:20	[OA36] Effects of Ca²⁺ on the formation of the dry-spun regenerated silk fibroin fibers Y. Jin*, Y.P. Zhang, Y.C. Hang, H.L. Shao, X.C. Hu, <i>Donghua University, China</i>			10:00 – 10:20	[OC35] Incorporation of fluorescent dye functionalities into MOF cavities via different strategies S. Wuttke*, C. Dietl, F.M. Hinterholzinger, H. Hintz, H. Langhals, T. Bein, <i>Ludwig-Maximilians-Universität München, Germany</i>
10:20 – 10:50	Coffee break-Foyer				
Session Chair	J. Livage		G. Guerra		S. Qiao
10:50 – 11:10	[OA37] Spinning of silk fibroin solution sheared and elongated in biomimetic microchips J. Luo*, Z.P. Zhang, H.L. Shao, X.C. Hu, <i>Donghua University, China</i>	10:50 – 11:20	[Invited B4] Multicompartmental particles and fibers J. Lahann ^{1,2} , ¹ University of Michigan, USA, ² KIT, Germany (presented by E.Sokolovskaya)	10:50 – 11:10	[OC36] Synthesis approach towards micro- and mesoporous polymer derived ceramics with well-dispersed metallic, metal oxide, carbide and nitride nanoparticles M. Seifollahi Bazarjani*, H. Kleebe, M. Müller, K. Morita, A. Gurlo, R. Riedel, <i>Technische Universität Darmstadt, Germany</i>

11:10 – 11:30	[OA38] Surface doping of maghemite (γ-Fe_2O_3) nanoparticles by $\text{Ce}^{3/4+}$ metallic cations as an innovative ultra-small nanoparticulate delivery system for gene silencing J.P. Lellouche*, L. Israel, K. Buchman, E. Lellouche, S. Zigdon, S. Michaeli, <i>Bar-Ilan University, Israel</i>	11:20 – 11:40	[OB48] Block copolymer directed one-pot synthesis of high performance mesostructured electrocatalysts and electrodes for fuel cells and batteries J. Shim, E. Kang, J. Hwang, C. Jo, J. Lee*, <i>Pohang University of Science and Technology, Republic of Korea</i>	11:10 – 11:30	[OC37] Cryo transmission electron microscopy reveals the structural evolution of a Metal–Organic Framework (MOF) O. Sobol*, E. Gadot, W. Yifeng, I.A. Weinstock, L. Meshi, <i>Ben-Gurion University of the Negev, Israel</i>
11:30 – 11:50	[OA39] Mastering material-cytoskeleton crosstalk to engineering a new generation of cell instructive biomaterials P.A. Netti ^{1,2} , ¹ <i>University of Naples Federico II, Italy</i> , ² <i>Istituto Italiano di Tecnologia, Italy</i>	11:40 – 12:00	[OB49] Hybrid polymer-nanocrystal multilayered architectures for high-performance near-infrared optoelectronic devices X. Ma ¹ , F. Xu ¹ , J. Benavides ² , S.G. Cloutier ^{*1,2} , ¹ <i>University of Delaware, USA</i> , ² <i>École de Technologie Supérieure, Canada</i>	11:30 – 12:00	[Invited C3] Engineering structure and porosity of microporous MOFs for enhanced functionality and performance J. Li, <i>Rutgers University, USA</i>
11:50 – 12:10	[OA43] Soft microorigami: Self-folding polymer films for cell encapsulation and release L. Ionov, <i>Leibniz Institute of Polymer Research, Germany</i>	12:00 – 12:20	[OB50] Nanocarbon-inorganic hybrid materials as next-generation photocatalysts D. Eder, D. Shearer*, <i>University of Münster, Germany</i>	12:00 – 12:20	[OC38] Mapping of functional groups and metal centers in hybridized MOFs via STEM-EDX and STEM-EELS C. Wiktor ^{*1,2} , S. Turner ² , R.A. Fischer ¹ , G. van Tendeloo ² , ¹ <i>Ruhr-University Bochum, Germany</i> , ² <i>University of Antwerp, Belgium</i>
12:10 – 12:40	[Invited A4] Functional materials by self-assembly. Properties and applications L. De Cola ^{1,2} , ¹ <i>Université de Strasbourg, France</i> , ² <i>KIT, Germany</i>	12:20 – 12:40	[OB51] High performance transparent film heater based on hybrid of carbon nanotubes and silver nanowires D. Kim ^{*1} , S.K. Oh ² , ¹ <i>Korea Institute of Machinery and Materials, Republic of Korea</i> , ² <i>Top Nanosys, Inc., Republic of Korea</i>	12:20 – 12:40	[OC39] Exploring the apparent colossal dielectric constants in nanoporous metal organic frameworks S. Castro-García*, M. Sánchez-Andújar, S. Yáñez-Vilar, B. Pato-Doldán, L.C. Gómez-Aguirre, M.A. Señaris-Rodríguez, <i>University of A Coruña, Spain</i>
12:40 – 14:00	Lunch-San Antonio & Ginestre				
Session Chair	TBC		S. Dai		J. Li
14:00 – 14:30	[Featured A5] Bio-inspired, smart, multiscale interfacial materials L. Jiang, <i>Chinese Academy of Sciences, China</i>	14:00 – 14:20	[OB52] Nano tools for macro problems: Multiscale molecular modeling of functional hybrid nanomaterials M. Fermeglia*, P. Posocco, S. Pricl, <i>University of Trieste, Italy</i>	14:00 – 14:20	[OC40] Hierarchically structured biomimetic honeycomb polymer films via breath figures and diblock copolymer self-assembly P. Escalé, L. Rubatat, M. Save, L. Billon*, <i>Université de Pau et des Pays de l'Adour, France</i>
14:30 – 15:00	[Featured A6] Bio-inspired living materials J. Livage, <i>Collège de France, France</i>	14:20 – 14:40	[OB53] Fullerene-like (FL) carbon-based thin films: A new class of nanostructured materials - from theoretical prediction to success in laboratory G.K. Gueorguiev, <i>Linköping University, Sweden</i>	14:20 – 14:40	[OC41] Mesoporous functional materials from dicyanamide precursors J.P. Paraknowitsch*, A. Thomas, <i>Technische Universität Berlin, Germany</i>
15:00 – 15:20	[OA41] Optically modified diatom bio-nanostructures for enhanced light harvesting J. Romann*, A. Røyset, G. Tranel, M.A. Einarsrud, <i>NTNU, Norway</i>	14:40 – 15:00	[OB54] Ionic nanoparticle networks as solid state catalysts M. Kronstein ^{*1} , M.A. Gauthey-Neouze ¹ , J. Roeser ^{2,3} , A. Thomas ³ , ¹ <i>Vienna University of Technology, Austria</i> , ² <i>Max Planck Institute of Colloids and Interfaces - Potsdam, Germany</i> , ³ <i>Berlin Institute of Technology, Germany</i>	14:40 – 15:00	[OC42] Functional cellular bulk materials via atomic layer deposition M.M. Biener, <i>LLNL, USA</i>
15:20 – 15:40	[OA42] Hybrid nanoColloids for nanoThermometry P. André ^{*1,2} , S. Chen ¹ , C. Hoskins ³ , L. Wang ³ , M.P. MacDonald ³ , ¹ <i>University of St Andrews, UK</i> , ² <i>RIKEN Advanced Science Institute, Japan</i> , ³ <i>University of Dundee, UK</i>	15:00 – 15:30	[Invited B5] Functional Fibres for Integrated Sensing and Actuation T. Peijs ^{*1} , O.T. Picot ¹ , M. Dai ² , E. Bilotti ¹ , Cees W.M. Bastiaansen ^{1,2} , ¹ <i>Queen Mary University of London, UK</i> , ² <i>Eindhoven University, The Netherlands</i>	15:00 – 15:20	[OC43] Molten salt assisted self-assembly: Modification of mesoporous silica and titania thin films with metal oxides C. Albayrak, C. Karakaya, Y. Turker, G. Barim, O. Dag*, <i>Bilkent University, Turkey</i>

15:40 – 16:00	[OA40] Biohybrids based on thermoplastic proteins having microcellular structures with different level of porosities and hierarchical organization E. Di Maio ² , S. Iannace* ¹ , M. Lavorgna ¹ , L. Verdolotti ¹ , ¹ CNR, Italy, ² University of Naples, Italy	15:30 – 15:50	[OB55] Sugar Conversion to Alkyl Lactate and Lactic Acid with Bifunctional Carbon-Silica Nanocomposite Catalysts M. Dusselier ¹ , F. de Clippel ¹ , J.F.M. Denayer ² , P.A. Jacobs ¹ , B.F. Sels* ¹ , ¹ KU Leuven, Belgium, ² VU Brussel, Belgium	15:20 – 15:50	[Invited C4] Nanoporous materials for delivery and catalysis S. Qiao, <i>The University of Adelaide, Australia</i>
16:00 – 16:20	[OA44] Programming architecture into biomineral-polymer composites for bone substitution L. Galea* ¹ , R.M. Erb ² , M. Bohner ¹ , A.R. Studart ² , T. Graule ³ , ¹ RMS Foundation, Switzerland, ² ETHZ, Switzerland, ³ EMPA, Switzerland	15:50 – 16:10	[OB56] Innovative hybrid materials as sorbents to uptake selectively radioactive Cs from contaminated effluents A. Tokarev ^{1,2} , Y. Guari ³ , J. Larionova ³ , Y. Barré ¹ , J. Causse* ² , A. Grandjean ² , ¹ DTCD/SPDE, France, ² Institut de Chimie Séparative de Marcoule, France, ³ Institut Charles Gerhardt Montpellier, France	15:50 – 16:10	[OC44] Pre-ceramic polymer route to macroporous monoliths based on N-doped reduced titanium oxides G. Hasegawa* ^{1,2} , T. Sato ² , K. Kanamori ² , Y. Kobayashi ¹ , H. Kageyama ¹ , K. Nakanishi ² , ¹ Graduate School of Engineering, Kyoto University, Japan, ² Graduate School of Science, Kyoto University, Japan
16:20 – 16:40	[OA45] Plant cell based hybrid materials: Biological, biochemical and chemical studies C.F. Meunier*, A. Boland, C. Toni, E. Danloy, P. Van Cutsem, B.L. Su, <i>University of Namur, Belgium</i>	16:10 – 16:30	[OB57] Fabrication of carbon nanotubes -hydrogel composites by dielectrophoresis for tissue engineering applications J. Ramon* ¹ , S. Ahadian ¹ , R. Obregon ¹ , H. Shiku ¹ , A. Khademhosseini ^{1,2,3,4} , T. Matsue ¹ , ¹ Tohoku University, Japan, ² Harvard Medical School, USA, ³ Massachusetts Institute of Technology, USA, ⁴ Kyung Hee University, Republic of Korea	16:10 – 16:30	[OC45] Hierarchical Mesoporous Pillared Planar Nanochannels for lab-on-a-chip devices M-F. Faustini* ¹ , C-S. Sinturel ² , M-V. Vayer ¹ , H-A. Amenitsch ³ , D-G. Grosso ¹ , ¹ Université Pierre Marie Curie, Collège de France, France, ² Centre de Recherche sur la Matière Divisée, Orléans, France, ³ Institute of Biophysics and X-ray Structure Research, Austrian Academy of Sciences, Austria
16:40 – 17:00	[OA46] Nanopore-based analysis: Improved multi-parameter measurement of nano- and microparticles D. Aubert, <i>Izon Science Ltd, UK</i>	16:30 – 16:50	[OB58] Exciton luminescent organic-inorganic hybrid ZnO nanocrystals in supercritical microfluidic for optochemical sensing E.S. Ilin*, V. Jubera, C. Aymonier, S. Marre, <i>ICMCB, France</i>	16:30 – 16:50	[OC46] Nanoporous-crystalline polymers G. Guerra* ¹ , C. Daniel ¹ , C. D'Aniello ¹ , P. Rizzo ¹ , V. Venditto ¹ , O. Tarallo ² , ¹ University of Salerno, Italy, ² Università di Napoli "Federico II", Italy
17:05 - 17:20	Closing Remarks-Sirene Auditorium				
17:20 – End of the Conference					