

Poster Programme

Poster Session 1 16:00 – 17:00 & 19:10 – 21:00, March 3rd 2013	
	SYMP. A - Biocatalysts
[A.1.1.1]	Urease Mediated, Room Temperature Synthesis of Nanocrystalline Titanium Dioxide J. Johnson ¹ , N. Kinsinger ¹ , C. Sun ¹ , D. Li ^{1,2} , D. Kisailus ¹ , ¹ UC Riverside, USA, ² Lawrence Berkeley National Laboratory, USA
[A.1.1.2]	Controllable synthesis of ZnO nanoparticles and their morphology-dependent antibacterial properties N. Talebian ¹ , M.R. Nilforoushan ² , M. Amininezhad ¹ , ¹ Shahreza Islamic Azad University, Iran, ² Shahrekord University, Iran
	SYMP. A - Bioinspired materials
[A.1.2.1]	Effect of drawing condition on shear and twist properties of poly(lactic acid) screw S. Kobayashi, M. Sakaguchi*, Tokyo Metropolitan University, Japan
[A.1.2.2]	Characterization of mechanical properties and bioactivity of hydroxyapatite/β-tricalcium phosphate composites-effect of SiO₂ or MgO sintering addition S. Kobayashi, T. Murakoshi*, Tokyo Metropolitan University, Japan
[A.1.2.3]	Bioinspired synthesis of protein-silica hybrid materials H. Wang ^{1,2} , T.M. Garakani ¹ , P. van Rijn ¹ , G. Kibar ⁴ , U. Schwaneberg ^{1,3} , A. Böker ^{1,2} , ¹ DWI an der RWTH Aachen e.V., RWTH Aachen University, Germany, ² Lehrstuhl für Makromolekulare Materialien und Oberflächen (IPC), RWTH Aachen University, Germany, ³ Lehrstuhl für Biotechnologie, RWTH Aachen University, Germany, ⁴ Hacettepe University, Turkey
[A.1.2.4]	Analytical prediction of hydrolysis behavior of polyester-based composites in simulated body environment S. Kobayashi*, S. Yamaji, Tokyo Metropolitan University, Japan
[A.1.2.5]	Synthesis and property of carbazole-containing porphyrins C. Maeda*, N. Yoshioka, Keio University, Japan
[A.1.2.6]	Supramolecular bionanotubes acting as a light-harvesting antenna system N. Kameta*, K. Ishikawa, M. Masuda, M. Asakawa, T. Shimizu, National Institute of Advanced Industrial Science and Technology, Japan
[A.1.2.7]	Bio-based coloration process for textile materials L.L. So*, L. He, J. Xin, B. Fei, K.L. Cheuk, The Hong Kong Polytechnic University, Hong Kong
[A.1.2.8]	Nanoparticle functionalized bio-polymer microspheres S. Yoon*, S. Han, W.T. Nichols, Hanyang University, Republic of Korea
[A.1.2.9]	Synthetic molecular receptors towards mimicry of allosteric enzymes and haem proteins E.N.W. Howe*, R. Bishop, P. Thordarson, The University of New South Wales, Australia
[A.1.2.10]	Diatom surfaces for flexible plasmonic SERS sensors S.Y. Kwon*, S. Yoon, S. Han, W.T. Nichols, Hanyang University, Republic of Korea
[A.1.2.11]	Design and self-assembly of biomimetic sponges S. Han*, S. Yoon, W.T. Nichols, Hanyang University, Republic of Korea
	SYMP. A - Biomimetic materials
[A.1.3.1]	N-doped CNT/Biomimetic Core/Shell Nanowires via Biomimetic Mineralization W.J. Lee ¹ , J.M. Lee ¹ , T.H. Han ² , S.O. Kim ¹ , ¹ KAIST, Republic of Korea, ² Hanyang University, Republic of Korea
[A.1.3.2]	Mechanical and microstructural response of Ti-6Al-7Nb biomedical alloy under high strain rates W.S. Lee*, C.W. Chen, National Cheng Kung University, Taiwan
[A.1.3.3]	Ultrastructural study of the osteoinductive capacity of poly (lactic-co-glycolic acid) nano/microspheres loaded with simvastatin applied into critical-size bone defects L.B. Ferreira ¹ , V. Bradaschia-Correa ¹ , N. Maciel-Oliveira ² , E.A.R. Duek ² , V.E. Arana-Chavez ¹ , ¹ University of São Paulo, Brazil, ² Pontifical Catholic University of São Paulo, Brazil
[A.1.3.4]	New biomimetics for bone tissue engineering T. Deyanova ¹ , L. Radev ² , M. Albu ³ , I. Titurencu ⁴ , P. Dineff ⁵ , D. Gospodinova ⁵ , T. Vladkova ² , ¹ Sofia University, Bulgaria, ² University of Chemical Technology and Metallurgy, Bulgaria, ³ National Research and Development Institute for Textile and Leather, Romania, ⁴ Romanian Academy of Sciences, Romania, ⁵ Technical University, Bulgaria
[A.1.3.5]	Clay-ironporphyrin: A promising multifunctional material with catalytic and antimicrobial activities A.L. de Carvalho ¹ , A.L. Marçal ¹ , E.J. Nassar ¹ , P.S. Calefi ¹ , C.H. Martins ¹ , K.J. Ciuffi ¹ , ¹ Universidade de Franca, Brazil, ² Universidad de Salamanca, Spain, ³ Universidad Pública de Navarra, Spain
	SYMP. A - Biomineralisation
[A.1.4.1]	Synthesis and stability of amorphous calcium phosphate in a polymer-surfactant based coacervate J. Harris*, D.S. Williams, S.A. Davis, S. Mann, University of Bristol, UK
[A.1.4.2]	Mineral capsules via oil-water-emulsions and investigations on dynamics of protein adsorption M.J. Richter*, A. Schulz, A. Böker, RWTH Aachen University, Germany
[A.1.4.3]	Effect of drawing condition on shear and twist properties of poly(lactic acid) screw S. Kobayashi, M. Sakaguchi*, Tokyo Metropolitan University, Japan
[A.1.4.4]	Hybrid nanoparticles based on carboxyl-ended dendrimers and gold and their in vitro calcification potential I.C. Stancu*, E. Vasile, H. Iovu, University Politehnica of Bucharest 149, Romania
	SYMP. A - Bionanocomposites
[A.1.5.1]	Novel impact modified PLA nanocomposites: Phase structure, morphology and mechanical properties

	J. Urquijo*, G. Guerrica-Echevarría, J.I. Eguiazábal, <i>UPV/EHU, Spain</i>
[A.1.5.2]	Exploration of cellular interactions of functionalized peptide based nanomaterials for applications in tissue engineering and cell penetration I. Banerjee*, K. Fath ² , N. Nakatsuka ¹ , ¹ <i>Fordham University, USA</i> , ² <i>University of New York, USA</i>
[A.1.5.3]	Characterizing nanoscale material properties using quartz crystal microbalance with dissipation monitoring J. Wikström*, G.J.S. Ohlsson, <i>Biolin Scientific AB, Sweden</i>
[A.1.5.4]	Nanostructures enabled performance synergy: Bio-nanocomposites from thermoplastic cellulose and microbial polyester J.H. Wang*, J. Lee, <i>Kimberly-Clark Corporation, USA</i>
[A.1.5.5]	Nanodiamonds as novel optical probes in bioimaging I: Fabrication E. von Haartman*, N. Prabhakar ^{1,2} , H. Jiang ³ , T. Närejo ⁴ , I.I. Vlasov ⁵ , J.M. Rosenholm ¹ , ¹ <i>Åbo Akademi University, Finland</i> , ² <i>Åbo Akademi University, Finland</i> , ³ <i>Aalto University, Finland</i> , ⁴ <i>University of Turku, Finland</i> , ⁵ <i>Russian Academy of Sciences, Russia</i>
[A.1.5.6]	Nanodiamonds as novel optical probes in bioimaging II: Application N. Prabhakar*, T. Närejo ² , E. Von Haartman ¹ , I. Vlasov ³ , C. Sahlgren ^{4,1} , J. Rosenholm ¹ , ¹ <i>Åbo Akademi University, Finland</i> , ² <i>University of Turku, Finland</i> , ³ <i>General Physics Institute, Russia</i> , ⁴ <i>Turku Centre for Biotechnology, Finland</i>
[A.1.5.7]	Synthesis of silver nanoparticles in PVA hydrogels for bactericide films R.N. Oliveira*, R.M.S.M. Thiré, G.D.A. Soares, <i>UFRJ, Brazil</i>
SYMP. A - Bioreactors	
[A.1.6.1]	Diagnostic microbio-reactor arrays for screening pluripotent stem cell expansion, maintenance and differentiation D. Titmarsh, J. Hudson, D. Ovchinnikov, E.J. Wolvetang, J.J. Cooper-White*, <i>The University of Queensland, Australia</i>
SYMP. A - Biosensors	
[A.1.7.1]	Novel liquid crystal block copolymers for protein detections S.Y. Park*, Y.D. Jung, M. Omer, M. Khan, <i>Kyungpook National University, Republic of Korea</i>
[A.1.7.2]	Glycopolymers-based honeycomb films for lectin recognizable biomaterials P. Escalé ¹ , S.R.S. Ting ² , L. Rubatá ¹ , M. Save ¹ , M. Stenzel ² , L. Billon*, ¹ <i>Université de Pau et des Pays de l'Adour, France</i> , ² <i>University of New South Wales, Australia</i>
[A.1.7.3]	Biosensor with supramolecular design based on single-walled carbo nanotubes/electropolymerized gold nanoparticles hybrid nanomaterial P. Díez*, R. Villalonga, M. Eguilaz, P. Martínez, J.M. Pingarrón, <i>Complutense University of Madrid, Spain</i>
[A.1.7.4]	Water-soluble anionic conjugated polymers: Synthesis and aggregation-induced fluorescence color change for protein sensing T.S. Lee*, G. Jang, D. Kim, J. Kim, J. Noh, S. Jo, <i>Chungnam National University, Republic of Korea</i>
[A.1.7.5]	Fluorescence change of conjugated polyelectrolyte-fibrinogen nano-complex by changes in aggregated state due to thrombin-mediated formation of fibrinogen to fibrin D. Kim*, J. Noh, T.S. Lee, <i>Chungnam National University, Republic of Korea</i>
[A.1.7.6]	A novel and facile method for synthesis of uniform and monodispersed hollow gold-silver nanostructures for incorporation in label-free optical biosensors J. Satija*, J. Tharion ¹ , S. Mukherji ^{1,2} , ¹ <i>Department of Bioscience and Bioengineering, IIT Bombay, India</i> , ² <i>Centre of Excellence for Nanoelectronics, IIT Bombay, India</i> , ³ <i>Centre for Research in Nanotechnology and Science, IIT Bombay, India</i>
[A.1.7.7]	Congo red decorated polymer nanoparticles as support for cholesterol oxidase R.A. Silva*, D.F.S. Petri, A.M. Carmona-Ribeiro, <i>Universidade de São Paulo, Brazil</i>
SYMP. A - Biotemplates	
[A.1.8.1]	Calcium sulfate hemihydrate-mediated crystallization of gypsum on Ca²⁺-activated cellulose thin films T.P.B. Nissinen*, M. Li ¹ , N. Brielles ² , S. Mann ¹ , ¹ <i>University of Bristol, UK</i> , ² <i>Saint Gobain Recherche, France</i>
[A.1.8.2]	Obtention of 1-D hybrid metallic nanowires using amyloid-like fibril as biotemplates and their potential applications S. Barbosa*, A. Cambón ¹ , J. Juárez ² , ¹ <i>Universidad de Santiago de Compostela, Spain</i> , ² <i>Universidad de Sonora, Mexico</i>
SYMP. A - Drug delivery	
[A.1.9.1]	Development of pectin based magnetic nanocarriers for targeted drug delivery R.K. Dutta*, S. Sahu, <i>Indian Institute of Technology Roorkee, India</i>
[A.1.9.2]	Natural biocompatible clay nanotubes for sustained and controlled drug release Y.M. Lvov*, E. Abdullayev, W. Wei, D. Mills, <i>Institute for Micromanufacturing, Louisiana Tech University, USA</i>
[A.1.9.4]	Biomimetic mineralization of nano-assemblies for cancer therapeutics H.J. Lee ¹ , K.H. Min ² , D.J. Park ² , S.C. Lee*, ¹ <i>School of Dentistry, Kyung Hee University, Republic of Korea</i> , ² <i>College of Pharmacy, Kyung Hee University, Republic of Korea</i>
[A.1.9.5]	Porous core/sheath composite nanofibers fabricated by coaxial electrospinning as a potential mat for drug release system J. Park*, T. Nguyen, O. Chung, <i>Hankyong National University, Republic of Korea</i>
[A.1.9.6]	Application of cellulose derivatives as wound dressing materials J. Kazlauskas, J. Liesiene*, <i>Kaunas University of Technology, Lithuania</i>
[A.1.9.7]	Poly-L-arginine grafted mesoporous silica nanoparticle hybrid material towards DNA transfection and drug delivery N. Tiwari*, M. Kar, S. Sen Gupta, M. Lahiri, <i>National Chemical Laboratory, India</i>
[A.1.9.8]	Design of modified release spheroids for treatment of type-II diabetes mellitus patients associated with dyslipidemia using locust bean gum as release modifier and studying the influence of tableting on drug release R.D. Deshpande*, D.V. Gowda, <i>JSS University, India</i>
[A.1.9.9]	Carbon dioxide-generating mineralized hybrid nanoparticles for ultrasound imaging K.H. Min*, K.H. Choi ² , S.Y. Jeong ¹ , S.C. Lee ² , ¹ <i>Department of Life and Nanopharmaceutical Science, Kyung Hee University, Republic of Korea</i> , ² <i>Department of Maxillofacial Biomedical Engineering, Kyung Hee University, Republic of Korea</i>

[A.1.9.10]	A novel intracellular protein delivery system based on calcium carbonate mineralized nanoparticles A.N. Koo*, S.C. Lee, K.H. Min, <i>Kyung Hee University, Republic of Korea</i>
[A.1.9.11]	Chirality in tripeptide self-assembled hydrogels: Design and application of nanostructured soft biomaterials S. Marchesan*, L. Waddington ¹ , Y. Qu ² , C.D. Easton ¹ , D.A. Winkler ^{1,3} , P.G. Hartley ¹ , ¹ CSIRO, Australia, ² Monash University, Australia, ³ Monash Institute of Pharmaceutical Sciences, Australia
[A.1.9.12]	Ureasil-polyether hybrid film-forming system for skin and wound protection L.K. Souza ^{2,3} , L.K. Bruno ^{2,4} , L. Lopes ¹ , S.H. Pulcinelli ¹ , L.A. Chiavacci ² , C.V. Santillid*, ¹ Institute of Chemistry, UNESP, Brazil, ² Faculdade Ciências Farmacêuticas, UNESP, Brazil, ³ Johnson & Johnson Consumer, Brazil, ⁴ UFES, Brazil
[A.1.9.13]	Novel arterial injection-chemotherapy using epirubicin entrapped WOW emulsion for hepatocellular carcinoma H. Yanagie*, S. Higashi ³ , I. Ikushima ⁴ , Y. Morishita ⁵ , T. Nagasaki ⁶ , M. Eriguchi ^{2,7} , ¹ Graduate School of Engineering, The University of Tokyo, Japan, ² Cooperative Unit of Medicine & Engineering, The University of Tokyo Hospital, Japan, ³ Kojinkai Medical City East Hospital, Japan, ⁴ Miyakonoyo Metropolitan Hospital, Japan, ⁵ Graduate School of Medicine, The University of Tokyo, Japan, ⁶ Osaka City University Graduate School of Engineering, Japan, ⁷ Shin-Yamate Hospital, Japan
SYMP. A - Green materials	
[A.1.10.1]	Screening, biosynthesis, characterization and potential applications of silver nanoparticles produced by mushroom fungi G. Arun*, M. Jegatheesan ¹ , M. Eyini ¹ , P. Gunasekaran ² , ¹ Thiagarajar College, India, ² Madurai Kamaraj University, India
[A.1.10.2]	Hybrid functional materials from engineered blends of biodegradable polymers and water-soluble polymers J.H. Wang, <i>Kimberly-Clark Corporation, USA</i>
[A.1.10.3]	Application of straw lignin for biomass-derived epoxy resins H. Naito*, T. Oyama, A. Takahashi, <i>Yokohama National University, Japan</i>
[A.1.10.4]	Application of lignin-modified phenolic resins to brake friction material M. Kuroe, <i>Akebono Research and Development Centre Ltd., Japan</i>
SYMP. A - Living materials	
[A.1.11.1]	From emulsions to biotechnology :Integrative chemistry for the development of living bio-hybrid materials M. Depardieu*, M. Viaud ¹ , H. Feracci ² , J. Livage ² , C. Sanchez ³ , R. Backov ^{1,2} , ¹ Université de Bordeaux, France, ² CNRS, France, ³ Collège de France, France
SYMP. A - Nanomedicine	
[A.1.12.1]	Sol-gel design of calcium hydroxyapatite nanostructures for dental applications A. Kareiva*, Z. Stankeviciute ¹ , A. Jankeviciute ¹ , J.C. Yang ² , I. Bogdanoviciene ¹ , K.A. Gross ³ , T. Yang ⁴ , ¹ Vilnius University, Lithuania, ² Taipei Medical University, Taiwan, ³ Riga technical University, Latvia, ⁴ National Taipei University of Technology, Taiwan
[A.1.12.2]	Luminescent nanohybrid for the early prostate cancer diagnosis: From the lanthanide complexes to the nanoprobe P. Adumeau*, C. Gaillard ¹ , N. Candelon ¹ , D. Boyer ¹ , J.L. Canet ¹ , A. Gautier ¹ , ¹ Clermont Université - ICCF, France, ² Clermont Université - GReD, France
[A.1.12.3]	Characterization and Application of <i>Aspergillus niger</i> conidial Melanin Nanoshells. G. Arun*, M. Jegatheesan ¹ , M. Eyini ¹ , P. Gunasekaran ¹ , ¹ Thiagarajar College, India, ² Madurai Kamaraj University, India
[A.1.12.4]	Hybrid metal oxide nanoparticles as multifunctional tool for cellular imaging: From test tube to gene therapy applications M.H. Delville*, S.L.C. Pinho ^{1,2} , E. Ribot ¹ , P. Voisin ³ , C.F.G.C. Geraldes ⁴ , L.D. Carlos ² , ¹ ICMCB/CNRS, France, ² University of Aveiro, Portugal, ³ RMSB/CNRS, France, ⁴ University of Coimbra, Portugal
[A.1.12.5]	Possible anticancer activity of fullerene organic derivatives L. Pérez-Manríquez*, E. Ramos, C. Rios, R. Salcedo, <i>IIM-UNAM, Mexico</i>
[A.1.12.6]	Nanohybrid particles formed with photon-upconverting nanoparticles, fullerenes and lipids for photodynamic therapy by near infrared irradiation K. Katagiri*, T. Ishida ¹ , K. Inumaru ¹ , T. Iizuka ² , M. Akiyama ^{2,3} , A. Ikeda ² , ¹ Hiroshima University, Japan, ² Nara Institute of Science and Technology, Japan, ³ Chuo University, Japan
[A.1.12.7]	Biocompatibility and Immunological Evaluation of Mesoporous Silica for Use as Potential Adjuvants. N. Kupferschmidt*, A.E. Garcia-Bennett ¹ , ¹ Uppsala University, Sweden, ² Nanologica AB, Sweden
SYMP. A - Other	
[A.1.13.1]	Qualitative and quantitative titanium oxide nanoparticles toxicity issues. Two samples skin cells and multicellular living specimens M.H. Delville*, Q. Le Trequesser ^{1,2} , M. Simon ² , A. Gerard ^{1,2} , P. Barberet ² , H. Sez nec ² , ¹ CNRS, France, ² CNRS, France, ³ Université de Bordeaux, France
[A.1.13.2]	Human primary osteoblasts response to surface mechanical attrition treatment of titanium alloy : A step closer toward expanded lifespan implants F. VELARD*, C. GUILLAUME ¹ , F. DRAUX ¹ , S. BOUTHORS ¹ , C. DEMANGEL ³ , Y. PI ^{4,5} , ¹ URCA, France, ² URCA, France, ³ CRITT-MDTS, France, ⁴ URCA, France, ⁵ UTT, France
[A.1.13.3]	MP-SPR - A new optical characterization method for ultrathin films N.M. Granqvist*, J. Tuppurainen ² , J.W. Sadowski ² , ¹ University of Helsinki, Finland, ² BioNavis Ltd., Finland
[A.1.13.4]	Linear and dendritic pluronic® derivates for biomedical applications I. Jiménez*, T. Sierra ¹ , M.B. Ros ¹ , J.L. Serrano ² , M.J. Martínez ³ , I. Ochoa ^{4,5} , ¹ Universidad de Zaragoza-CSIC, Spain, ² Universidad de Zaragoza, Department Química Orgánica, Spain, ³ Banco de Sangre y Tejidos de Aragón, Spain, ⁴ CIBER-BBN, Spain, ⁵ Aragón Institute of Engineering Research, Universidad de Zaragoza, Spain, ⁶ Aragón Institute of Health Sciences, Spain
[A.1.13.5]	The use of stimuli-responsive coatings for controlling of cell-surface interactions A. Fery*, A.V. Andreeva ¹ , E. Betthausen ² , I. Dewald ¹ , J. Gensel ¹ , A.H.E. Müller ² , ¹ Physical Chemistry II, University of Bayreuth, Bayreuth,

	Germany, ² Macromolecular Chemistry II, University of Bayreuth, Bayreuth, Germany, ³ Max Planck Institute of Colloids and Interfaces, Golm, Germany
[A.1.13.6]	Estimation of surface activity and work of adhesion of milk tooth and hydroxyapatite-containing resin-based dental composites Z. Okulus*, B. Strzemecka, A. Voelkel, <i>Poznań University of Technology, Poland</i>
SYMP. A - Synthetic/biopolymer hybrids	
[A.1.14.1]	Encapsulating fluorescent conjugated polymers in PEOlated silica nanocapsules and their application in in-vivo imaging of zebrafish Y.W. Hsu* ¹ , C. Teh ² , H. Tan ¹ , V. Korzh ² , X. Li ³ , J. Wang ¹ , ¹ National University of Singapore, Singapore, ² Institute of Molecular and Cell Biology, Singapore, ³ Institute of Materials Research and Engineering, Singapore
[A.1.14.2]	Evaluation of chitosan membranes containing mesoporous silica as drug delivery systems L.R. Gondim ^{1,2} , A.M.A. Liberatore ² , I.H.J. Koh ² , M.A. Bizeto* ¹ , ¹ ICAQF-UNIFESP, Brazil, ² EPM-UNIFESP, Brazil
[A.1.14.3]	Hybrid materials constituted by peptide and polylactide sequences S.K. Murase* ¹ , M. Morell ¹ , J. Puiggalí ^{1,2} , ¹ Universitat Politècnica de Catalunya, Spain, ² Center for Research in NanoEngineering, Spain
[A.1.14.4]	New poly(ester amide)s containing glycolic acid, cadaverine and adipic acid units: Scaffolds with antioxidant and antibactericide properties S.K. Murase* ¹ , M. Morell ¹ , J. Puiggalí ^{1,2} , ¹ Universitat Politècnica de Catalunya, Spain, ² Center for Research in NanoEngineering, Spain
[A.1.14.5]	Bioactive hybrid materials coating for infection resistant implants and devices J.D. Jarrell* ^{1,2} , N. Tran ³ , P.A. Tran ³ , J. Engiles ⁴ , R.A. Hayda ^{2,3} , C.T. Born ^{2,3} , ¹ BioIntraface, Inc., USA, ² Alpert Medical School of Brown University, USA, ³ Department of Orthopaedics, Rhode Island Hospital, USA, ⁴ University of Pennsylvania, USA
[A.1.14.6]	Photochromic nanofibers- preparation and characterization Z. Khatri* ^{1,2} , K. Wei ¹ , I-S. Kim ¹ , ¹ Nano Fusion Technology Research Group, Faculty of Textile Science and Technology, Shinshu University, Japan, ² Department of Textile Engineering, Mehran University of Engineering and Technology, Pakistan
SYMP. B - Applications	
[B.1.1.1]	Synthesis of MnO₂/Carbon nanotubes composite by a hydrothermal method and its application in brackish water desalination J. Yang*, L. Zou, <i>University of South Australia, Australia</i>
[B.1.1.2]	Applicability of hybrid organic-inorganic nanocomposite coatings as anticorrosion coatings for electronic boards A. Surca Vuk* ¹ , A. Rauter ¹ , L. Slemenik Perse ¹ , B. Orel ¹ , O. Sunetci ² , B. Bengu ² , ¹ National Institute of Chemistry, Slovenia, ² Arcelik Central R&D, Turkey
[B.1.1.3]	Control of morphology and catalytic activity of a cationic layered material C.H. Swanson*, H.A. Shaikh, Y. Abdollahian, J.L. Hauser, M. Ikehata, S.R.J. Oliver, <i>University of California, USA</i>
[B.1.1.4]	Bactericidal activity of silver nanoparticles stabilized by ionic hybrid material containing the 1,4-diazoniabicyclo[2.2.2]octane group A.C. Schneid, E.W. Roesh, U.S. Matte, T.M.H. Costa, E.V. Benvenuti, E.W. de Menezes*, <i>UFRGS, Brazil</i>
[B.1.1.5]	Gold or palladium nanoparticles dispersed in bulk or on the surface of silica based hybrid material and its use as carbon paste electrode E.M. Caldas, L. Silva, S.L.P. Dias, L.T. Arenas, E.V. Benvenuti*, E.W. de Menezes, <i>UFRGS, Brazil</i>
[B.1.1.6]	Osmate immobilized on ionic silsesquioxane/alumina as an efficient recyclable catalyst for dihydroxylation of styrene E.W. de Menezes*, T.M.H. Costa, E.V. Benvenuti, D. Russowsky, <i>UFRGS, Brazil</i>
[B.1.1.7]	Treatment of fine particles migration in porous media flooded by nanofluids: An experimental study D. Arab* ¹ , Y. Assef ¹ , P. Pourafshary ¹ , S.H. Ayatollahi ² , A. Habibi ¹ , ¹ University of Tehran, Iran, ² Shiraz University, Iran
[B.1.1.8]	Hybrid structure with metal-oxide nano-particles embedded in polyimide on graphene layer for resistive switching memory D.U. Lee* ¹ , D. Kim ¹ , E.K. Kim ¹ , Y.H. Kim ² , H. Kim ³ , ¹ Department of Physics and Research Institute for Natural Sciences, Hanyang University, Republic of Korea, ² Division of Materials Science and Engineering, Hanyang University, Republic of Korea, ³ Dongguk University, Republic of Korea
[B.1.1.9]	Surface mechanical properties of functional thin films on steel-based substrates L. Libralso* ¹ , A. Favache ² , T. Pardoen ² , P. Guaino ¹ , C.H. Sacre ^{2,1} , C. Archambau ¹ , ¹ AC&CS - CRM Group, Belgium, ² IMAP - UCL, Belgium
[B.1.1.10]	Morphology-dependant photocatalytic activities of SnO₂ nanostructures synthesised via a hydrothermal route N. Talebian*, N. Mirsattari, F. Jafari, <i>Shahreza Islamic Azad University, Iran</i>
[B.1.1.11]	Polyisocyanates containing lanthanide chelates for plastic optical fiber amplifiers P. Fabbri* ¹ , L. Ferrari ¹ , L. Rovati ¹ , M. Geppi ² , L. Carlos ³ , ¹ University of Modena and Reggio Emilia, Italy, ² University of Pisa, Italy, ³ University of Aveiro, Portugal
SYMP. B - Energy , environmental and structural hybrids	
[B.1.2.1]	Synthesis and characterization of YSZ and GDC thin films using a novel sol-gel processing route S. Tautkus* ¹ , A. Zarkov ¹ , A. Beganskiene ¹ , V. Vickackaite ¹ , B. Abakeviciene ² , S. Tamulevicius ² , ¹ Vilnius University, Lithuania, ² Kaunas University of Technology, Lithuania
[B.1.2.2]	Photoprotective properties of gold nanoparticles L.B. Bekale*, S.B. Barazzouk, S.H. Hotchandani, <i>Université du Québec à Trois-Rivières, Canada</i>
[B.1.2.3]	Enhanced photoelectrochemical water splitting by ZnO nanostructure for hydrogen production E.S. Babu, S.K. Hong*, D. Kim, S.G. Yoon, H. Kim, <i>Chungnam National University, Republic of Korea</i>
[B.1.2.4]	Highly flexible silver nanowire/PEDOT:PSS hybrid electrodes for ITO-free polymer solar-cell Y.J. Oh* ¹ , B.Y. Wang ¹ , J.S. Kim ² , D.S. Lim ³ , ¹ Korea Institute of Science and Technology, Seoul, Republic of Korea, ² People & Technology(PNT) Co. Ltd., Gumi, Republic of Korea, ³ Korea University, Seoul, Republic of Korea
[B.1.2.5]	Synthesis, characterization and possible applications of conducting polymer fiber - noble metal nanocomposites E. Peintler-Kriván, D. Ungor, B. Endrodi, C. Janáky, C. Visy*, <i>University of Szeged, Hungary</i>
[B.1.2.6]	Oxidation induced preferential growth of RuO₂ nanorods in (Ru-Ti)O₂ nanocomposites and its supercapacitive application I.L. Chen* ¹ , T.Y. Chen ² , C.H. Lee ² , C.C. Hu ¹ , ¹ Department of Chemical Engineering, National Tsing-Hua University, Taiwan, ² Department of Engineering and System Sciences, National Tsing-Hua University, Taiwan

[B.1.2.7]	Interfacial engineering in graphene-metal oxide photocatalysts C.J. Shearer*, D. Eder, <i>University of Muenster, Germany</i>
[B.1.2.8]	Synthesis and anion exchange properties of layered zinc hydroxide salts R. Rachid, <i>Université d'Orléans, France</i>
[B.1.2.9]	Synthesis of Different Architectures of Polymer Hybrids for Energy Application M.H. Abdel Rehim, <i>National Research Centre, Egypt</i>
[B.1.2.10]	Antimicrobial activity of silver nanoparticles immobilized on a surface functionalized SU-8 polymer S. Agnihotri*, S. Mukherji, S. Mukherji, <i>Indian Institute of Technology, India</i>
[B.1.2.11]	Preparation of metal oxide nanoparticle coated on plate ceramic and its infrared reflective properties D.S. Kim*, H.J. Lee ¹ , H.Y. Jung ¹ , H.M. Lim ¹ , S-H. Lee ¹ , B-K. Choi ² , ¹ KICET, Republic of Korea, ² CQV Co., Republic of Korea
[B.1.2.12]	Long term stability of TiO₂ templated multilayer films used as high efficiency photoelectrode in liquid DSSCs J. Dewalque*, C. Henrist, R. Cloots, <i>University of Liege, Belgium</i>
[B.1.2.13]	Preparation of silicon/carbon composites using silicon pre-ceramic polymers and their uses as a high capacity anode materials for lithium ion battery Y.J. Kwark*, H. Eun ¹ , H. Im ¹ , S. Yoon ² , Y.S. Kim ³ , Y.L. Joo ³ , ¹ Soongsil University, Republic of Korea, ² Korea Research Institute of Chemical Technology, Republic of Korea, ³ Cornell University, USA
SYMP. B - Functional hybrid nanoparticles and nanotubes	
[B.1.3.1]	Microwave Assisted One-step Fabrication of Polyethylenimine-passivated Carbon Dots with Enhanced Multicolor Photoluminescence for Bioimaging C.J. Liu*, F. Li ^{1,2} , F. Tian ¹ , J. Yang ¹ , Y.J. Zhang ¹ , S.J. Liu ¹ , W.G. Liu ² , ¹ Academy of Military Medical Sciences, China, ² Tianjin Key Laboratory of Composite and Functional Materials, Tianjin University, China
[B.1.3.2]	Porous titanium dioxide nanocomposite materials O. Mechling*, A. Wittmar, M. Ulbricht, <i>Universität Duisburg-Essen, Germany</i>
[B.1.3.3]	Surface and interface chemistry of InP/ZnS quantum dots: A comprehensive study H. Virieux*, A. Cros-Cagneux ¹ , M. Le Troedec ² , C. Nayral ¹ , F. Delpech ¹ , Y. Coppel ³ , ¹ Laboratoire de Physique et Chimie des Nano-Objets, France, ² Université de Pau et des Pays de l'Adour, Hétioparc, France, ³ Laboratoire de Chimie de Coordination, France
[B.1.3.4]	Towards synthesis and investigation of surface plasmon polariton lasers A. Ott*, G. Kewes ² , Y. Lu ¹ , O. Benson ² , M. Ballauff ^{1,2} , ¹ Helmholtz Zentrum Berlin, Germany, ² Humboldt University Berlin, Germany
[B.1.3.5]	High performance flexible transparent conductive carbon nanotube films for organic solar cells H. Min ^{1,2} , S. Kim ² , W.K. Choi ¹ , Y.J. Oh ¹ , J.K. Lee*, ¹ InteKorea Institute of Science and Technology, Republic of Korea, ² Korea University, Republic of Korea
[B.1.3.6]	Ionic nanoparticle networks: Easily tailorable hybrid materials M. Kronstein*, M.A. Gauthey-Neouze, <i>Vienna University of Technology, Austria</i>
[B.1.3.7]	Functionalized magnetic nanomaterials for clinical bio-separation J.H. Chang, <i>Korea Institute of Ceramic Engineering and Technology, Republic of Korea</i>
[B.1.3.8]	Thioxanthone-functionalized silver nanoparticles: A new nano-hybrid photoinitiator for smart metal/polymer nanoassemblies L. Balan*, S. Niu ¹ , R. Schneider ² , L. Vidal ¹ , ¹ Institut de Sciences des Matériaux de Mulhouse, CNRS, France, ² Laboratoire Réactions et Génie des Procédés, CNRS, France
[B.1.3.9]	Magnetic release mechanism on lipid-sealed halloysite clay nanotubes B. Wicklein*, L. Bergström, <i>Stockholm University, Sweden</i>
[B.1.3.10]	Electronic and electric properties of one-dimensional exotic-nanocarbon J. Onoe*, T. Ito ² , S. Ryuzaki ¹ , H. Shima ³ , H. Yoshioka ⁴ , S. Kimura ⁵ , ¹ Tokyo Institute of Technology, Japan, ² Nagoya University, Japan, ³ Yamanashi University, Japan, ⁴ Nara Women's University, Japan, ⁵ Institute for Molecular Science, Japan
[B.1.3.11]	Charge separation in type-II semiconductor heterodimers T. Teranishi, <i>Kyoto University, Japan</i>
[B.1.3.12]	Janus au-mesoporous silica nanoparticles with gate-like scaffolding for enzyme-controlled cargo release R. Villalonga*, P. Díez ¹ , A. Sánchez ¹ , E. Aznar ² , R. Martínez-Máñez ² , J.M. Pingarrón ¹ , ¹ Complutense University of Madrid, Spain, ² Polytechnic University of Valencia, Spain
[B.1.3.13]	Multifunctional nanoparticles for <i>in vivo</i> ARN interference therapies R. Alles*, C. Affolter ¹ , D. Mertz ¹ , T. Baumert ² , J. Ogier ¹ , F. Meyer ¹ , ¹ INSERM U977, France, ² INSERM U748, France
[B.1.3.14]	Highly fluorescent nanoparticles and polymer films using combined exciton-migration and photochromic switching D. Kim*, T.S. Lee, <i>Chungnam National University, Republic of Korea</i>
[B.1.3.15]	The influence of the cationic polystyrene in hollow silica particles fabrication C.S.S. Ribeiro*, A.O. Ribeiro, S.N.M. Mestanza, <i>UFABC, Brazil</i>
[B.1.3.16]	Atmospheric plasma deposition of nano-thick coatings on micro- and nanoparticles S. Put*, C. Bertels, A. Vanhulsel, <i>VITO, Belgium</i>
[B.1.3.17]	Hollow silica nanosphere having functionalized interior surface : Nanoreactor frameworks for metal nanocrystal growth and size-selective catalysis I.S. Lee*, S.M. Kim, S.W. Soon, J.G. Kim, J.H. Lee, D.G. Lee, <i>POSTECH, Republic of Korea</i>
[B.1.3.18]	Nanomaterial-based Multimodal Contrast Agents for the <i>in Vivo</i> Imaging: Advanced Surface-modified SuperParamagnetic Iron Oxide Nanoparticles J. Paris ¹ , J. Boudon ¹ , Y. Bernhard ² , R. Decréau ² , P. Walker ³ , N. Millot ¹ , F. Bouyer*, ¹ Laboratoire Interdisciplinaire Carnot de Bourgogne, UMR

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[B.1.3.19]	Elaboration by the Sol-gel Process of Fluorescent Sensitive Coatings for Gas Chemical Sensors N. Duée ^{1,2} , C. Ambard ^{*1} , F. Pereira ¹ , D. Autissier ¹ , C. Sanchez ² , K. Vallé ¹ , ¹ CEA, France, ² Collège de France, France
[B.1.3.20]	Coalescence-free L10-ordered FePt nanoparticles: Successive silica encapsulations of FePt nanoparticles by microemulsion and sol-gel routes T.M.N. Alnasser*, S. Mornet, G. Goglio, E. Duguet, J. Majimel, O. Toulemonde, ICMCB, France
[B.1.3.21]	Optically and Biologically Active Mussel Protein-Coated Double Walled Carbon Nanotube Y.A. Kim, <i>Shinshu University, Japan</i>
[B.1.3.22]	Pmma nanoparticle doped with fluorescent organic dye by suspension and dispersion polymerization Y. Kim*, D. Kim, G. Jang, T.S. Lee, <i>Chungnam National University, Republic of Korea</i>
[B.1.3.23]	Polymer-coated and surface-functionalized ceramics nanoparticles produced by in-situ living radical block copolymerization T. Arita, <i>Tohoku University, Japan</i>
[B.1.3.24]	Hybrid of graphene and carbon nanotubes for highly conductive transparent film D. Kim*, C.K. Najeeb, J.H. Kim, <i>Korea Institute of Machinery and Materials, Republic of Korea</i>
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[B.1.4.1]	In silico studies of 1,3:2,4-dibenzylidene-D-sorbitol as a gelator for polypropylene D. Alperstein, D. Knani*, <i>Ort Braude College, Israel</i>
[B.1.4.2]	Novel hybrid materials on the basis of nanostructured tin dioxide and a lipase from <i>rhizopus delemar</i> as biocatalysts for kinetic resolution of cyclic alcohols M. Guncheva*, M. Dimitrov, <i>BAS, Bulgaria</i>
[B.1.4.3]	Fabrication of metallic nanoring arrays by using colloidal crystal templates H. Yabu ^{1,2} , ¹ Tohoku University, Japan, ² JST, Japan
[B.1.4.4]	Study of viscoelastic properties of nanoporous gold using dynamic mechanical analysis N. Mameka ^{*1} , J. Markmann ^{1,2} , J. Weissmüller ^{1,2} , ¹ Helmholtz-Zentrum Geesthacht, Germany, ² Technische Universität Hamburg-Harburg, Germany
[B.1.4.5]	Nanostructured Polybenzimidazole Membranes P. Haro Dominguez*, J. Weber, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[B.1.4.6]	Organic- inorganic hybrid nanostructures composed of redox active Prussian Blue analogues and conjugated polymers A. Lisowska-Oleksiak*, A.P. Nowak, <i>Gdansk University of Technology, Poland</i>
[B.1.4.7]	Epoxy-acid bi-functionalized polyhedral oligomeric silsesquioxanes as stamp material for nanocontact printing application J. Kastner ^{*1} , O. Lorret ¹ , A. Rank ¹ , B. Ditter ¹ , R. Schöftner ¹ , C. Schwarzinger ² , ¹ Profactor GmbH, Austria, ² Johannes Kepler University, Austria
[B.1.4.8]	Simple synthetic approach to magnetic nanoswimmers P.J. Vach ^{*1} , N. Brun ² , D. Faivre ¹ , ¹ Department of Biomaterials, Max Planck Institute of Colloids and Interfaces, Germany, ² Department of Colloid Chemistry, Max Planck Institute of Colloids and Interfaces, Germany
[B.1.4.9]	Hybrid multilayers: Schottky diode behaviour and transition effect in bipolar conduction behaviour V. Torrisi ^{*1} , F. Ruffino ² , M.G. Grimaldi ² , G. Marletta ¹ , ¹ University of Catania and CSGI, Italy, ² Università di Catania, Italy
[B.1.4.10]	Vertical heterojunction arrays of SiNWs/ZnO nanostructures as multifunctional material D.V. Ramireddy ^{*1} , D.R. Shinde ² , F.B. Bouaifel ³ , R. Boukherroub ³ , M.A. More ² , M.V. Shelke ¹ , ¹ National Chemical Laboratory, India, ² University of Pune, India, ³ Institut de Recherche Interdisciplinaire, France
[B.1.4.11]	Photosensitized hydrogen evolution from water using a single-walled carbon nanotube/fullerodendron/SiO₂ coaxial nanohybrid Y. Takaguchi*, Y. Ozawa, Y. Sasada, T. Tajima, <i>Okayama University, Japan</i>
[B.1.4.12]	Concentration-dependent fluorescence of doped polyquinoxaline in electrospun PEO or pmma nanofibers S. Jo*, D. Kim, J. Kim, T.S. Lee, <i>Chungnam National University, -</i>
[B.1.4.14]	Electrospray-assisted deposition and characterization of nanostructured α-Fe₂O₃ thin films for photoelectrochemical water splitting G. Rahman ^{*1,2} , Y.J. Hwang ¹ , O.S. Joo ¹ , ¹ Korea Institute of Science and Technology, Republic of Korea, ² University of Science and Technology, Republic of Korea
[B.1.4.15]	Composite sio₂/tio₂ nanohelices for nanoelectromechanical systems(NEMS) D. Dedovets ^{*1,2} , E. Pouget ¹ , R. Oda ¹ , S. Si ² , M.H. Delville ² , C. Bergaud ³ , ¹ Institut Europeen de Chimie et Biologie, France, ² Institut de Chimie de la Matière Condensée de Bordeaux, France, ³ Laboratoire d'Analyse et d'Architecture des Systemes, France
[B.1.4.16]	Synthesis of TiO₂/SiO₂/polyaniline composite particles H. Guleryuz, C. Filiatre, M. Euvrard*, C. Buron, B. Lakard, <i>Université de Franche Comté, France</i>
[B.1.4.17]	Left-handed nanofiber formation from the self-assembly of cytidylic acid-appended bolaamphiphile in lemon juice R. Iwaura*, M. Ohnishi-Kameyama, <i>National Agriculture and Food Research Organization, Japan</i>
[B.1.4.18]	Reactivity of defect-free and vacancy-containing hexagonal graphene nanocluster according to quantum chemistry approach O.S. Karpenko, V.V. Lobanov, M.T. Kartel*, <i>Chuiko Institute of Surface Chemistry, Ukraine</i>
[B.1.4.19]	Synthesis of Photo-Responsive Siloxane-Azobenzene Nanohybrid Materials S.G. Guo*, T.O. Okubo, A.S. Shimojima, <i>The University of Tokyo, Japan</i>
[B.1.4.20]	Methacrylate/epoxy systems reinforced with special nanostructured compounds A. Lungu*, N.M. Florea, H. Iovu, <i>University Politehnica of Bucharest, Romania</i>
[B.1.4.21]	Phase transitions in polymeric luminescent indicators with a threshold temperature through variable-temperature SSNMR and fluorescence spectra M. Geppi ^{*1,2} , S. Borsacchi ^{1,2} , F. Martini ^{1,2} , A. Pucci ¹ , ¹ Università di Pisa, Italy, ² INSTM, Italy

[B.1.4.22]	Magnetization dynamics in "1-3" multiferroic composites D. Bueno-Baques*, V. Corral-Flores, N.A. Morales-Carrillo, C.A. Gallardo-Vega, R. Ziolo, <i>Research Center for Applied Chemistry, Mexico</i>
[B.1.4.23]	Self-assembled Ca doped TiO₂ Reactive NanoMasks for dry etching lithographic transfer with high selectivity M.F. Faustini*, D.G. Grosso, <i>Université Pierre Marie Curie, Collège de France, France</i>
[B.1.4.24]	3D nanocomposite photonic crystals with enhanced magneto-optical response A. Roig* ¹ , O. Pascu ¹ , J.M. Caicedo ¹ , M. López-García ^{1,2} , A. Blanco ^{1,2} , G. Herranz ¹ , ¹ ICMAB-CSIC, Spain, ² ICMM-CSIC, Spain
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[B.1.5.1]	Morphology and properties of amorphous polyamide/MWCNT nanocomposites N. Aranburu*, J.I. Eguiazabal, <i>University of the Basque Country, Spain</i>
[B.1.5.2]	Nanostructured UV-cured siloxane-modified methacrylic system as protective coatings C. Esposito Corcione*, R. Striani, M. Frigione, <i>University of Salento, Italy</i>
[B.1.5.3]	Metal-organic-silica nanocomposites and their CO₂ adsorption behaviour Nezar H. Khadry*, M.A. Ghanemc, <i>King Abdulaziz Cite for Science and Technology, Saudi Arabia</i>
[B.1.5.4]	Cucurbit[7]uril-assisted synthesis of prussian blue nanocubes A. R.B.S.Galaço* ¹ , E. Castaldelli ¹ , R. F.Silva ¹ , G. J-F.Demets ¹ , ¹ USP, Brazil, ² CNPQ, Brazil
[B.1.5.5]	Nano-hydroxyapatite/cellulose scaffolds O. Petrauskaitė ¹ , J. Liesiene* ² , G. Juodzbalyš ³ , P. Gomes ⁴ , E. Costa ⁵ , ¹ Kaunas University of Technology, Department of Organic Technology, Lithuania, Lithuania, ² Kaunas University of Technology, Department of Organic Technology, Lithuania, Lithuania, ³ Lithuanian University of Health, Lithuania, ⁴ University of Porto, Portugal, ⁵ University of Aveiro, Portugal
[B.1.5.6]	Graphene/CNT-Vinyl ester nanocomposites: Structure, mechanical properties and electrical conductivity L. Sorochnyńska* ¹ , A.A. Almajid ² , K. Friedrich ^{1,2} , B. Wetzel ¹ , ¹ Institut für Verbundwerkstoffe GmbH, Germany, ² King Saud University, Saudi Arabia
[B.1.5.7]	Toughening of cycloaliphatic epoxy resin by in situ polymerization of modifiers H. Togawa*, T. Oyama, A. Takahashi, <i>Yokohama National University, Japan</i>
[B.1.5.8]	High heat resistant resins prepared from maleimide, benzoxazine, and cyanate ester M. Okamoto*, T. Oyama, A. Takahashi, <i>Yokohama National University, Japan</i>
[B.1.5.9]	Synthesis and characterization of cds-tio₂ nanocomposite films and their photo-electrochemical properties S. Chaguetmi* ^{1,2,3} , F. Mammeri ¹ , S. Nowak ¹ , H. Lecoq ¹ , P. Decorse ¹ , C. Costentin ⁴ , S. Achour ³ , S. Ammar ¹ , ¹ Université Paris Diderot, France, ² Université 20 Août 1955 de Skikda, Algeria, ³ Université Mentouri, Algeria, ⁴ Université Paris Diderot, France
[B.1.5.10]	The effect of nano-silica on the ablation and mechanical behavior of nbr based heat insulator F. Arabgol, M. Kokabi, A.R. Bahramian, F. Pashaei*, <i>Tarbiat Modares University, Iran</i>
[B.1.5.11]	In situ preparation and nanoindentation of STY-MMA co-polymer containing graphene sheets using microwave irradiation E.H. Alsharaeh*, N.H. Faisal, A. Othman, <i>Alfaisal Universty, Saudi Arabia</i>
[B.1.5.12]	Super extensible and highly resilient nanocomposite hydrogels initiated and crosslinked by graphene peroxide J.Q. Liu*, H.L. Wang, <i>College of Chemistry, China</i>
[B.1.5.13]	Mechanical and thermal properties of graphene reinforced toughened polyethylene terephthalate/ polypropylene nanocomposites I.M. Inuwa, A. Hassan*, M. Jawaid, S.A. Samsudin, <i>Universiti Teknologi Malaysia, Malaysia</i>
[B.1.5.14]	Hierarchical reinforcement of polyurethane elastomers with inorganic micro- and nanoplatelets R. Libanori*, F.H.L. Muench, D.M. Montenegro, A.R. Studart, <i>ETH Zürich, Switzerland</i>
[B.1.5.15]	Mechanically Tough, Electrically Conductive PEO Nanofiber Web by Incorporating DNA-Wrapped Carbon Nanotubes J.H. Kim*, M. Kataoka, <i>Shinshu University, Japan</i>
[B.1.5.17]	Syntesis and characterization of nanocomposite polyvinyl phosphate - aluminum phosphate (PVAPO-ALPO₄) as protective coating. M.S. Asmalina* ^{1,2} , J. Mohd Rafie ¹ , A.L. Noralina ² , Y. Syajaratunnur ² , ¹ Department of Mechanical, Faculty Engineering, Universiti Malaya, Malaysia, ² Department of Applied Science and Advance Technology, UniKL Malaysian Institute of Marine Engineering Technology (MIMET), Malaysia
[B.1.5.18]	Interface chemistry of ZnSe, ZnS and CuInS₂ nanocomposites with polymers M. Bredol, K. Matras-Postolek, K. Chojnacka, K. Gugula*, <i>Münster University of Applied Sciences, Germany</i>
[B.1.5.21]	Block copolymer based hybrid nanocomposites for advanced mass sensing of hydrogen C. De Rosa ¹ , A. Malafrente* ^{1,2} , M. Lazzari ² , R. Di Girolamo ¹ , F. Auremma ¹ , ¹ University of Naples Federico II, Italy, ² University of Santiago de Compostela, Spain
[B.1.5.22]	Inorganic-organic hybrid thermoelectric materials containing metal nanoprticles N. Toshima*, N. Jiravanichanun, H. Marutani, S. Ichikawa, <i>Tokyo University of Science Yamaguchi, Japan</i>
[B.1.5.23]	New nanocomposites designed for controlled drug delivery S.A. Garea*, A. Ghebaour, E. Vasile, H. Iovu, <i>University Politehnica of Bucharest, Romania</i>
[B.1.5.24]	Towards blood purification applications of polypyrrole and cellulose nanocomposites D.O. Carlsson* ¹ , N. Ferraz ¹ , B. Fellström ² , L. Nyholm ³ , A. Mihrianyan ¹ , M. Strømme ¹ , ¹ Department of Engineering Sciences, Uppsala University, Sweden, ² Uppsala University Hospital, Sweden, ³ Department of Chemistry, Uppsala University, Sweden
[B.1.5.25]	Ternary nanocomposite based on polypyrrole, mesoporous silica and silver. A one-pot synthesis A.C. Rosa ¹ , C.M. Correa ¹ , R. Faez ² , M.A. Bizeto ¹ , F.F. Camilo* ¹ , ¹ Universidade Federal de São Paulo, Brazil, ² Universidade Federal de São Carlos, Brazil
[B.1.5.26]	New strategy to produce polybenzoxazine-clay hybrid materials C. Andronescu, S.A. Garea, H. Iovu*, <i>University Politehnica of Bucharest, Romania</i>
[B.1.5.27]	The comparison of sepiolite / HEC and montmorillonite / HEC nanocomposites

	N. Alan*, S. Isci, <i>Istanbul Technical University, Turkey</i>
[B.1.5.28]	Hybrid magnetostrictive-piezoelectric CoFe₂O₄-BaTiO₃-PVDF composites V. Corral-Flores ^{*1} , D. Bueno-Baques ¹ , A. Torres-Castro ² , R.F. Ziolo ¹ , ¹ Research Center for Applied Chemistry, Mexico, ² Autonomous University of Nuevo Leon, Mexico
[B.1.5.29]	Layered silicates as fillers for epoxy and their influences on the mechanical properties D. Haba*, A.J. Brunner, M. Barbezat, A. Battisti, <i>Empa, Switzerland</i>
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[B.1.6.1]	Synthesis and Optical Properties of Donor-π-Acceptor Type Dye Functional Materials: Emitter and Chemosensor Effects H. Kim ¹ , D.H. Lee ² , C.S. Lee ³ , Y.A. Son ^{*1} , ¹ Chungnam National University, Dept. of Advanced Organic Materials Engineering, Republic of Korea, ² Korea Dyeing Technology Center, Republic of Korea, ³ Chungnam National University, Dept. of Chemical Engineering, Republic of Korea
[B.1.6.2]	Transparent p-type semiconductor CuAlO₂ thin films as nitrogen monoxide gas sensor S. Park, H. Kim*, S-K. Hong, D. Kim, <i>Chungnam National University, Republic of Korea</i>
[B.1.6.3]	Physico-chemical properties of hybrid materials determined by inverse gas chromatography with potential use in pharmaceuticals J. Kolodziejek*, A. Voelkel, <i>Poznan University of Technology, Poland</i>
[B.1.6.4]	Investigation of the relationship between thermal treatment and emission intensity of thulium(III) complexes M.G. Lahoud ^{*1} , E.C. Muniz ¹ , R. Sábio ¹ , J. Ellena ² , M.R. Davolos ¹ , R.C.G. Frem ¹ , ¹ University Estadual Paulista, Brazil, ² Universidade de São Paulo, Brazil
[B.1.6.5]	Polyhedral nanoColloids and SPASER Emission P. André ^{*1,2} , N. Ghofraniha ³ , A. Di Falco ¹ , C. Conti ^{4,5} , ¹ School of Physics and Astronomy (SUPA), University of St Andrews, UK, ² RIKEN Advanced Science Institute, Japan, ³ IPCF-CNR, UOS Roma Kerberos, University a La Sapienza, Italy, ⁴ Department of Physics, University Sapienza, Italy, ⁵ Institute for Complex-Systems CNR, UOS Sapienza, University Sapienza, Italy
[B.1.6.6]	Molecular-to-material pathway: A preparation of mixed oxides from metal organic frameworks J. Popovic*, M. Juric, A. Santic, K. Molcanov, <i>Rudjer Boskovic Institute, Croatia</i>
[B.1.6.7]	XBroad program: Extracting basic microstructure information from XRD in few clicks Z. Skoko ^{*1} , J. Popovic ² , K. Dekanic ¹ , V. Kolbas ¹ , S. Popovic ¹ , ¹ University of Zagreb, Croatia, ² Division of Materials Physics, Croatia
	SYMP. B - Selforganisation of nanoobjects
[B.1.7.1]	Open colloidal structures by hydrophobization of silica aqueous suspensions S. Moro ^{*1} , N. Sanson ¹ , B. Cabane ² , J.B. d'Espinose ¹ , ¹ CNRS, France, ² CNRS, France
[B.1.7.2]	Amphiphilic polyoxometalates: Self-assembly and catalytic properties A. Proust ^{*1} , V. Jallet ¹ , G. Guillemot ¹ , V. Rataj ² , J. Lai ³ , P. Bauduin ³ , ¹ Université Pierre et Marie Curie, France, ² Université de Lille 1, France, ³ CEA Marcoule, France
[B.1.7.3]	Cold welding of colloidal gold nanorods S.C. Laza ^{*1} , N. Sanson ² , A. Aghedu ¹ , C. Sicard-Roselli ³ , B. Palpant ¹ , ¹ Ecole Centrale Paris, France, ² UPMC ESPCI, France, ³ Université Paris Sud 11, France
[B.1.7.4]	Organization of functional nanoparticles at the macroscale: Highly uniformity and sensing applications N. Pazos Perez ^{*1} , M. Tebbe ¹ , M. Mueller ¹ , R. Alvarez Puebla ² , A. Fery ¹ , ¹ University of Bayreuth, Germany, ² University of Vigo, Spain
	SYMP. B - Sol-gel derived hybrids
[B.1.8.1]	Proton-conducting hybrid materials and their structural properties U. Thanganathan, <i>Okayama University, Japan</i>
[B.1.8.2]	Nanostructured innovative materials designed for medical applications V. Vickackaite*, J. Trinkunaite-Felsen, A. Beganskiene, A. Padaruskas, A. Kareiva, <i>Vilnius University, Lithuania</i>
[B.1.8.3]	Synthesis, modification and functionalization of silica nanocoatings A. Padaruskas*, I. Valasinaviciute, A. Beganskiene, S. Tautkus, <i>Vilnius University, Lithuania</i>
[B.1.8.4]	Designing epoxy-silica hybrids for cold-curing systems in structural applications F. Lionetto ^{*1} , L. Mascia ² , M. Frigione ¹ , ¹ University of Salento, Italy, ² Loughborough University, UK
[B.1.8.5]	Preparation and Optical Properties of Hybrid Silica Sol-Gel Materials N. Danchova*, S. Gutzov, <i>University of Sofia, Bulgaria</i>
[B.1.8.6]	New organic-inorganic hybrids: Alkoxysilyl-functionalised mesylate and iodide imidazolium-based ionic liquids A. Surca Vuk*, M. Colovic, M. Hajzeri, L. Slemenik Perse, B. Orel, <i>National Institute of Chemistry, Slovenia</i>
[B.1.8.7]	Photoluminescent silica aerogel containing new developed lanthanide complexes C.S. Stan ¹ , M. Popa ^{*1} , N. Marcotte ² , ¹ TUIASI, Romania, ² Ecole Nationale Supérieure de Chimie, France
[B.1.8.8]	Development of water-based sol-gel coatings as adhesion pre-treatment for aluminium sheets S. Meyer*, U. Schubert, <i>Technical University of Vienna, Austria</i>
[B.1.8.9]	Preparation and characterization of shape memory hybrids S. Ponyrko*, L. Matejka, <i>Institute of Macromolecular Chemistry, Czech Republic</i>
[B.1.8.10]	Adsorption of hazardous dyes orange ii and methylene blue on ureasil-PEO hybrid matrix E.F. Molina*, L. Marçal, E.J. Nassar, K.J. Ciuffi, <i>Universidade de Franca, Brazil</i>
[B.1.8.11]	Ion imprinted sol-gel materials for the separation of metal ions S. Umetani*, K. Watanabe, Y. Sohrin, <i>Kyoto University, Japan</i>
[B.1.8.12]	Tunable photoluminescence by energy transfer from Tb³⁺ to Eu³⁺ in GPTS-TEOS-derived organic/silica hybrid films F.S. De Vicente ^{*1} , L.A.O. Nunes ² , P. Freddi ¹ , D.A. Donatti ¹ , D.R. Vollet ¹ , ¹ UNESP, Brazil, ² USP, Brazil
	SYMP. C - Carbon-related functional porous materials

[C.1.1.1]	Salt templating - A simple pathway toward highly porous ionic liquid-derived functional carbons and composites N. Fechner*, T.P. Fellingner, M. Antonietti, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[C.1.1.2]	Deep-eutectic solvents playing multiple roles in the synthesis of hierarchical porous carbons D. Carriazo, M.C. Gutierrez, M.L. Ferrer, F. del Monte, <i>ICMM-CSIC, Spain</i>
[C.1.1.3]	Waterborne porous carbons for energy storage M.M. Titirici ^{1,2} , R.J. White ^{1,3} , S.A. Wohlgemuth ¹ , K. Tang ⁴ , ¹ <i>Max-Planck Institute of Colloids and Interfaces, Germany</i> , ² <i>University of London, UK</i> , ³ <i>Berlin Institute of Technology, Germany</i> , ⁴ <i>Max-Planck Institute for Solid State Research, Germany</i>
[C.1.1.4]	A sustainable production of porous carbon monoliths using hydrothermal carbonization M.M. Titirici ^{1,2} , R.J. White ^{1,3} , N. Brun ¹ , S. Kubo ^{1,4} , ¹ <i>Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany</i> , ² <i>University of London, UK</i> , ³ <i>Berlin Institute of Technology, Germany</i> , ⁴ <i>National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan</i>
[C.1.1.5]	Obtaining of nanostructured carbon materials from biomass for adsorption of antibiotic J. Schultz ^{1,2} , S. Pianaro ³ , A.S. Mangrich ^{1,2} , G. Capobianco ³ , ¹ <i>Federal University of Paraná, Brazil</i> , ² <i>National Institute of Science and Technology, Brazil</i> , ³ <i>State University of Ponta Grossa, Brazil</i>
[C.1.1.6]	Synthesis and characterization of nanoporous organic frameworks and their application to hydrogen storage O.M. El-Kadri ¹ , T. Islamoglu ² , R.M. Kassab ³ , C.T. Jackson ² , H.M. E-Kaderi ² , ¹ <i>American University of Sharjah, United Arab Emirates</i> , ² <i>Virginia Commonwealth University, USA</i> , ³ <i>Cairo University, Egypt</i>
[C.1.1.7]	Preparation of high crystalline mesoporous carbon powders through transition metal dispersed carbon powders T. Tsumura*, S. Ninomiya, G. Shimizu, A. Arikawa, Y. Arai, M. Toyoda, <i>Oita University, Japan</i>
SYMP. C - COFs	
[C.1.2.1]	Thin films of covalent organic frameworks - Synthesis and characterization M.S. Lohse*, D.D. Medina, M. Dogru, A. Gavryshin, P. Knochel, T. Bein, <i>Ludwig-Maximilians University Munich, Germany</i>
SYMP. C - Hierarchically structured materials	
[C.1.3.1]	Colloidal and optical characterization of hybrid clay-dye nanopigments: From fundamentals to applications E. Baena-Murillo*, B. Micó-Vicent, F.M. Martínez-Verdú, <i>Universidad de Alicante, Spain</i>
[C.1.3.2]	Photocatalytic TiO₂ macroscopic fiber obtained through integrative chemistry N. Kinadjian ¹ , M. Le Behec ³ , F. Dufour ⁴ , E. Prouzet ² , S. Lacombe ³ , R. Backov ¹ , ¹ <i>Université de Bordeaux 1, France</i> , ² <i>University of Waterloo, Canada</i> , ³ <i>Université de Pau et des Pays de l'Adour, France</i> , ⁴ <i>Université Pierre et Marie Curie, France</i>
[C.1.3.3]	Templated growth strategy for highly porous oxide nanowires structures towards high efficiency devices H.N. Hieu, N.M. Vuong, D. Kim*, <i>Chungnam National University, Republic of Korea</i>
[C.1.3.4]	Hybrid hollow fibres with enhanced adsorption capacity and reduced pressure drop C.A. Jeffs ¹ , M.W. Smith ² , C.A. Stone ² , B.D. Crittenden ¹ , S.P. Perera ¹ , ¹ <i>University of Bath, UK</i> , ² <i>Dstl, UK</i>
[C.1.3.5]	Hierarchically structured, porous silica monoliths based on phase-separating glasses B. Reinhardt*, D. Enke, <i>University of Leipzig, Germany</i>
[C.1.3.6]	Preparation, characterization and application of hierarchically structured mixed oxide catalysts J. Kullmann*, M. Weinert, M. Weiß, D. Enke, <i>University of Leipzig, Germany</i>
[C.1.3.7]	Hierarchical porous TiO₂ thin films by soft and dual templating C. Henrist*, R. Cloots, P. Colson, J. Jonlet, J. Dewalque, <i>University of Liège, Belgium</i>
SYMP. C - Macrocellular solids	
[C.1.4.1]	Fabrication and properties of highly closed macro-cellular ceramics via gelation freezing route M. Fukushima*, Y. Yoshizawa, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
[C.1.4.2]	Microstructural characterization of a cellular ceramic produced from drinking water sludge F. Espejel-Ayala*, R.M. Ramírez-Zamora, O. González-Barcelo, R. Schouwenaars, <i>Universidad Nacional Autónoma de México, Mexico</i>
SYMP. C - Membranes	
[C.1.5.1]	Microfiltration membranes with graded structure obtained by powder sedimentation I. Vida-Simiti*, N.A. Sechel, G. Thalmaier, <i>Technical University of Cluj-Napoca, Romania</i>
[C.1.5.2]	Biomimetic triblock copolymer membranes: From aqueous solutions to solid supports A. Gonzalez-Perez ¹ , V. Castelletto ² , I.W. Hamely ² , P. Taboada ³ , V. Mosquera ³ , ¹ <i>University of Copenhagen, Denmark</i> , ² <i>University of Reading, UK</i> , ³ <i>Universidad de Santiago de Compostela, Spain</i>
[C.1.5.3]	Semipermeable membranes based on pyrogallolarenes and resorcinarenes S.M. Lima*, T.M.B. Teodósio, G.J.F. Demets, <i>University of São Paulo, Brazil</i>
[C.1.5.4]	Reaction of hydrolytic polycondensation of alkoxysilanes in obtaining hybrid sorbents and membranes V.V. Tomina, V.M. Kochkodan, I.V. Melnyk, O.A. Dudarko, G.I. Nazarchuk, Y.L. Zub*, <i>National Academy of Sciences of Ukraine, Ukraine</i>
[C.1.5.5]	Synthesis and physico-chemical characterization of porous silica membranes obtained by using PS-b-PEO block copolymers as soft-templating agents R. Nisticò*, D. Scalarone, G. Magnacca, <i>University of Torino, Italy</i>
SYMP. C - Mesoporous materials	
[C.1.6.1]	Direct oxidation of cyclohexanone to adipic acid T. Mazari ^{1,2} , I. Houhou ² , D. Mellouli ² , S. Benadji ² , C. Rabia ¹ , ¹ <i>Université Mouloud Maameri de Tizi Ouzou, Algeria</i> , ² <i>U.S.T.H.B, Algeria</i>
[C.1.6.2]	Functional mesoporous silica nanohybrids designed for internal or external heating-triggered in-vivo drug release J. Liu ^{1,2} , C. Detrembleur ¹ , S. Mornet ^{1,2} , C. Jerome ¹ , E. Duguet ^{1,2} , ¹ <i>University of Liege, Belgium</i> , ² <i>University of Bordeaux 1, France</i>
[C.1.6.3]	Mutual effects of pore structure and ligand functionalization in MSU-X silica : High capacity adsorbents for gold thiosulfate B. Fotoohi*, L. Mercier, L. Amaratunga, <i>Laurentian University, Canada</i>

[C.1.6.4]	Morphological and mechanical studies of doped and un-doped silica aerogel G. Bar ^{*1,2} , C. Zur ² , R. Verker ³ , E. Grossman ³ , R. Haj-Ali ² , R. Gvishi ¹ , ¹ Applied Physics Division, Soreq, Israel, ² Tel-Aviv University, Israel, ³ Space Environment Department, Soreq, Israel
[C.1.6.5]	Room temperature magnetic oxides produced through polymer templating: ordered mesoporous Ga_xFe_{2-x}O₃ thin films with 18 nm diameter pores and nanocrystalline walls C. Reitz ^{*1,2} , R. Kruk ² , T. Brezesinski ² , ¹ Justus-Liebig-University Giessen, Germany, ² Karlsruhe Institute of Technology, Germany
[C.1.6.6]	The formation and characterization of a new type of carbonate structure S. Frykstrand [*] , J. Forsgren, A. Mhryan, M. Strømme, <i>Division for Nanotechnology and Functional Materials, Sweden</i>
[C.1.6.7]	Use of SiO₂ mesoporous thin film as nanocontainer for benzotriazole in anticorrosive coating I. Recloux ^{*1} , Y. Paint ² , A. Baroni ¹ , M.G. Olivier ¹ , ¹ University of Mons, Belgium, ² Materia Nova Asbl, Belgium
[C.1.6.8]	Large pore mesostructured organosilica hybrids as highly efficient and regenerable sorbents for actinide and rare earth extraction J. Florek ^{*1} , P.J. Lebed ¹ , F. Chalifour ¹ , F. Bilodeau ¹ , D. Larivière ¹ , F. Kleitz ¹ , ¹ Université Laval, Canada, ² Hydro-Quebec Production, Canada
[C.1.6.9]	Optical method for sensing of gases in nano-structured birefringent thin films K. Hakshur [*] , S. Ruschin, <i>Tel Aviv University, Israel</i>
[C.1.6.10]	The effect of the mesoporosity on the crystalline growth of hematite films used as photoelectrodes in water splitting C. Toussaint [*] , R. Cloots, C. Henrist, <i>University of Liège, Belgium</i>
[C.1.6.11]	Design, synthesis and characterization of pH responsive luminescent hybrid mesoporous materials G.E. Musso [*] , I. Miletto, G. Caputo, S. Coluccia, G. Berlier, <i>Università degli Studi di Torino, Italy</i>
[C.1.6.12]	Mesoporous Cu_{0.1}Ce_{0.85-x}Zr_xO₂: Possibility of tuning CO oxidation at ambient conditions E.S. Gnanakumar [*] , C.S. Gopinath, <i>National Chemical Laboratory, India</i>
[C.1.6.13]	Pore size/distribution of ultra-low-k films prepared by methylsilsesquioxane/ polystyrene hybrid films using ionic surfactants Y. Chen, J. Leu [*] , <i>National Chiao Tung University, Taiwan</i>
[C.1.6.14]	Multiblock copolymer-templated mesoporous silica and organosilicas for applications E.B. Cho [*] , Y. Hong, <i>Seoul National University of Science and Technology, Republic of Korea</i>
[C.1.6.15]	Manufacturing and magnetic properties of bismuth ferrite multiferroic confined in porous matrices B. Andrzejewski ^{*1} , K. Pogorzelec-Glaser ¹ , B. Hilczer ¹ , G. Nowaczyk ² , S. Jurga ² , A. Pietraszko ³ , ¹ Institute of Molecular Physics, PAS, Poland, ² The NanoBioMedical Centre, Poland, ³ Institute of Low Temperature and Structure Research, PAS, Poland
[C.1.6.16]	Direct synthesis of mesoporous polymer by polymerizable gemini-type surfactants H. Sakai [*] , K. Ogura, K. Tsuchiya, T. Endo, K. Sakai, M. Abe, <i>Tokyo University of Science, Japan</i>
[C.1.6.17]	Large mesopores silica films O. Perez-Anguiano ^{*1,2} , E. Socolan ¹ , R. Pugin ¹ , H. Hofmann ² , ¹ Centre Suisse d'Electronique et de Microtechnique SA (CSEM SA), Switzerland, ² École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
SYMP. C - MOFs	
[C.1.7.1]	Metal-organic framework ZIF-8 films: Low-κ dielectrics for future microelectronic chip devices S. Eslava ^{*1} , L. Zhang ² , S. Esconjauregui ³ , K. Vanstreels ² , M.R. Baklanov ² , E. Saiz ¹ , ¹ Imperial College, UK, ² IMEC, Belgium, ³ University of Cambridge, UK
[C.1.7.2]	Rational design of porous homochiral coordination polymers from nature-abundant compounds M.S. Zavakhina [*] , D.G. Samsonenko, D.N. Dybtsev, V.P. Fedin, <i>RAS, Russia</i>
[C.1.7.3]	Efficient MOF-based catalyst for the selective ethylene dimerization J. Canivet [*] , S. Aguado, Y. Schuurmann, D. Farrusseng, <i>CNRS, France</i>
[C.1.7.4]	Adsorption of AlH₃ on MOF-5 and its hydrogen storage behaviour T. Tsumura [*] , T. Matsunaga, M. Toyoda, <i>Oita University, Japan</i>
[C.1.7.5]	New metal phosphonate based on aromatic phosphonic acid possessing limited conformational freedom P. Garczarek ^{*1} , J. Zon ¹ , J. Janczak ² , ¹ Wroclaw University of Technology, Poland, ² Polish Academy of Sciences, Poland
[C.1.7.6]	Synthesis of copper-based MOF/graphene-like composites and probing of their conductive properties M. Alfe ^{*1} , V. Gargiulo ¹ , L. Lisi ¹ , R. Di Capua ^{2,3} , ¹ IRC-CNR, Italy, ² CNR-SPIN, Italy, ³ University of Molise, Italy
[C.1.7.7]	Engineering extended architectures using metal coordination in the presence of hydrogen bonding L.B. Hamdy [*] , L.H. Thomas, C.C. Wilson, <i>University of Bath, UK</i>
[C.1.7.8]	Novel isorecticular open framework materials based on phosphonates and heterocyclic ligands M. Taddei ¹ , F. Costantino ^{*1} , R. Vivani ¹ , A. Ienco ² , ¹ Università di Perugia, Italy, ² CNR, Italy
[C.1.7.9]	Synthesis, crystal structure, magnetic properties and EPR studies of new copper(II) complex with sulfoisophthalic acid anion T. Kurc [*] , I. Turowska-Tyrk, V. Videnova-Adrabinska, <i>Wroclaw University of Technology, Poland</i>
SYMP. C - Other	
[C.1.8.1]	Multifunctional hydroxyapatite for regenerative medicine K. Ioku ^{*1} , M. Kamitakahara ² , T. Ikeda ³ , ¹ Keio University, Japan, ² Tohoku University, Japan, ³ Nagasaki University, Japan
[C.1.8.2]	Electrochemical fabrication of Cu₂S, Ag₂S and CdS porous foams P. Shahbazi Saif Abadi [*] , A. Kiani, <i>University of Isfahan, Iran</i>
[C.1.8.3]	Self standing three-dimensional macroporous scaffold using ferritin and its application as a catalyst S. Kumari [*] , G. Kumaraswamy, S.S. Gupta, <i>National Chemical Laboratory, India</i>
SYMP. C - Zeolites	
[C.1.9.1]	Kinetics of the isomerization of terpene oxides over Fe and Sn modified zeolites and mesoporous materials P. Mäki-Arvela [*] , N. Kumar, T. Salmi, D. Murzin, <i>Laboratory of Industrial Chemistry and Reaction Engineering, Åbo Akademi University, Finland</i>

[C.1.9.2]	Control over population of single Al atoms vs Al-O-(Si-O)²-Al sequences in ZSM-5 zeolite by varying synthesis parameters. ²⁹Si and ²⁷Al MAS NMR studies V. Pashkova*, P. Klein, J. Dedecek, B. Wichterlova, <i>J. Heyrovsky Institute of Physical Chemistry of the ASCR, Czech Republic</i>
[C.1.9.3]	Synthesis of organofunctionalized nano h-beta zeolite by silanization of protozeolitic units W.J. Sun*, L. Wan, G.Z. Liu, L. Wang, <i>Tianjin University, China</i>
[C.1.9.4]	Surface and adsorption properties of natural zeolites and synthetic mesoporous materials used as fragrance carriers M. Kasperkowiak*, B. Strzemiescka, A. Voelkel, <i>Poznan University of Technology, Poland</i>

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SYMP. A - Biocatalysts	
[A.2.1.1]	Antibacterial activity of NiO thin films synthesized by sol-gel: Solvent effect N. Talebian*, M. Dodi ² , M. Kheiri ² , ¹ <i>Shahreza Islamic Azad University, Iran</i> , ² <i>Falavarjan Islamic Azad University, Iran</i>
[A.2.1.2]	Preparation and antibacterial activities of Co-doped SiO₂ using solvothermal method N. Talebian*, E. Zare, <i>Shahreza Islamic Azad University, Iran</i>
SYMP. A - Bioinspired materials	
[A.2.2.1]	Hierarchical TiO₂ with highly efficient photocatalytic capability derived from aquatic plant biotemplate M.Z. Li*, J. Liu, Q. Yang, Y.L. Song, <i>Chinese Academy of Sciences, China</i>
[A.2.2.2]	Reversible switching between superhydrophobic states on a hierarchically structured surface T. Verho ¹ , J.T. Korhonen ¹ , L. Sainiemi ¹ , V. Jokinen ¹ , C. Bower ³ , R.H.A. Ras* ¹ , ¹ <i>Aalto University, Finland</i> , ² <i>Nokia Research Center, UK</i> , ³ <i>Cambridge University, UK</i>
[A.2.2.3]	Continuous propulsion of superhydrophobic and superoleophobic nanocellulose membranes on water and oil H. Jin, O. Ikkala, R.H.A. Ras*, <i>Aalto University, Finland</i>
[A.2.2.4]	Coacervation-mediated mineralization for the preparation of functional, biocompatible materials M. Maas*, P. Kaempfe, K. Rezwani, <i>University of Bremen, Germany</i>
[A.2.2.5]	Development of microcarriers for tissue engineering applications using adipose tissue-derived extracellular matrix material: From clinical waste to useful bioactive material B. Luo* ¹ , T.C. Lim ² , C. Choong ¹ , ¹ <i>Nanyang Technological University, Singapore</i> , ² <i>National University of Singapore, Singapore</i>
[A.2.2.6]	Instructive templates for stem cell differentiation: 3D alginate scaffolds with tunable properties post-fabrication Q.L. Loh*, C. Choong, <i>Nanyang Technological University, Singapore</i>
[A.2.2.7]	Synthesis of Structural Biocomposites at Multiple Length Scales Inspired by Squid Beak and Mussel Thread Coating Chemistry O. Zvarec ¹ , S. Purushotham ¹ , R.V. Ramanujan ¹ , A. Masic ² , A. Miserez* ¹ , ¹ <i>Nanyang Technological University, Singapore</i> , ² <i>Max Planck Institute for Colloids and Biomaterials, Germany</i>
[A.2.2.8]	Natural polyester films and microtubes for blood vessel engineering C. Zaharia* ¹ , P.O. Stanescu ¹ , B. Galateanu ² , E. Vasile ¹ , ¹ <i>University Politehnica of Bucharest, Romania</i> , ² <i>University of Bucharest, Romania</i>
[A.2.2.9]	From genotype to prototype: Molecular design of squid sucker ring teeth P.A. Guerette* ¹ , S. Hoon ² , A. Masic ³ , A. Miserez ^{1,4} , ¹ <i>Nanyang Technological University, School of Materials Science and Engineering, Singapore</i> , ² <i>Biopolis Science and Engineering Institutes, Singapore</i> , ³ <i>Max-Planck Institute of Colloids and Interfaces, Germany</i> , ⁴ <i>Nanyang Technological University, School of Biological Sciences, Singapore</i>
[A.2.2.10]	Zirconium acetate: An intriguing alternative to ice shaping proteins for the control of ice crystals growth S. Deville* ¹ , C. Guizard ¹ , C. Viazzi ¹ , E. Maire ² , J. Adrien ² , L. Gremillard ² , ¹ <i>Laboratoire de Synthèse et Fonctionnalisation des Céramiques, France</i> , ² <i>Université de Lyon, France</i>
SYMP. A - Biomimetic materials	
[A.2.3.1]	Surface-bound light-activated redox enzyme cascades E. Nam*, D.C. Goldstein, P. Thordarson, <i>The University of New South Wales, Australia</i>
[A.2.3.2]	Novel biomimetic proteoglycans for treatment of tissue degeneration: Synthesis and characterization K. Prudnikova ¹ , D. Madende ¹ , S. Lightfoot ¹ , E. Vresilovic ² , M. Marcolongo* ¹ , ¹ <i>Drexel University, USA</i> , ² <i>Pennsylvania State College of Medicine, USA</i>
[A.2.3.3]	New bone scaffolds based on collagen-sericin-hydroxyapatite A. Albu ¹ , A. Lungu* ² , I. Titorencu ³ , I.C. Stancu ² , E. Vasile ² , H. Iovu ² , ¹ <i>Division Leather and Footwear Research Institute, Romania</i> , ² <i>University Politehnica of Bucharest, Romania</i> , ³ <i>Institute of Cellular Biology and Pathology "Nicolae Simionescu", Romania</i>
[A.2.3.4]	Porous and flexible polymer membranes to mimic the omniphobic characteristics of springtail skin R. Hensel* ¹ , A. Finn ² , R. Helbig ¹ , C. Neinhuis ^{3,4} , W.J. Fischer ² , C. Werner ^{1,4} , ¹ <i>Max Bergmann Center of Biomaterials Dresden, Germany</i> , ² <i>Institute of Semiconductors and Microsystems, Technische Universität Dresden, Germany</i> , ³ <i>Institute of Botany, Technische Universität Dresden, Germany</i> , ⁴ <i>B CUBE Innovation Center for Molecular Bioengineering, Technische Universität Dresden, Germany</i>
SYMP. A - Biomineralisation	
[A.2.4.1]	Synthesis, characterization and study of hydroxyapatite nanoparticles on remineralization of exposed dentin/collagen F.K. Ibuki*, S.H. Toma, F.N. Nogueira, <i>University of São Paulo, Brazil</i>
[A.2.4.2]	Solid state NMR study of the structural characteristics of apatite in bone highlighting the role of collagen Y. Wang, S. Von Eeuw*, G. Laurent, F. Babonneau, N. Nassif, T. Azaïs, <i>Chimie de la Matière Condensée de Paris, France</i>
[A.2.4.3]	<i>Diplodon chilensis</i>: Coexistence of Three Calcium Carbonate Polymorphs in One Shell

	J.L. Arias*, M.S. Fernandez, A. Neira-Carrillo, <i>University of Chile, Chile</i>
[A.2.4.4]	Development of hybrid bioactive coatings for dental metal implants M.J. Juan-Díaz ¹ , M. Martínez-Ibáñez ¹ , I. Lara-Sáez ¹ , A. Larrea ² , S. da Silva ² , J. Suay* ² , ¹ University of the Basque Country, Spain, ² Universitat Jaume I, Spain
	SYMP. A - Bionanocomposites
[A.2.5.1]	Preparation and characterization of carbon nanomaterials dispersion using biocompatible surfactant H. Kato, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
[A.2.5.2]	Green route to formation of nanobiocomposites assisted by plants aqueous extract A.R. Vilchis-Nestor* ¹ , V. Sanchez-Mendieta ¹ , G. Lopez-Tellez ¹ , M. Jose-Yacaman ² , J.P. Hinestroza ³ , A. Ponce ² , ¹ Universidad Autónoma del Estado de México, Mexico, ² University of Texas at San Antonio, USA, ³ Cornell University, USA
[A.2.5.3]	Structure and properties of cellulose nanocrystals/ovalbumin/PVA based porous nanocomposites A. Kumar* ¹ , Y.S. Negi ¹ , V. Choudhary ² , N.K. Bhardwaj ³ , ¹ Indian Institute of Technology Roorkee, India, ² Indian Institute of Technology Delhi, India, ³ Thaper Centre for Industrial Research and Development, Haryana, India
[A.2.5.4]	Well-dispersed alginate/graphene oxide nanocomposites A.M. Pandele*, M. Ionita, H. Iovu, <i>University Politehnica of Buchares, Romania</i>
[A.2.5.5]	Nano-cellulose improved self-assembled keratin oligopeptide crystals as new building blocks for novel materials B.M. Liebeck*, A. Böker, C. Popescu, <i>DWI an der RWTH Aachen e.V., Germany</i>
[A.2.5.6]	Hybrid DNA/carbon nanotube materials for sensing applications M.G. Santonicola* ^{1,2} , S. Laurenzi ¹ , ¹ Sapienza University of Rome, Italy, ² University of Twente, The Netherlands
[A.2.5.7]	Enhancement of zein protein properties through <i>in-situ</i> hybridization by reactive silsesquioxanes structures L. Verdolotti ¹ , M. Lavorgna* ¹ , M. Oliviero ¹ , G. Buonocore ¹ , A. Sorrentino ¹ , E. Di Maio ² , ¹ CNR, Italy, ² University of Naples Federico II, Italy
	SYMP. A - Bioreactors
[A.2.6.1]	Hierarchically structured monolithic enzymatic microreactors - engineering and performance K. Szymanska ¹ , W. Pudlo ¹ , J. Mrowiec-Bialon ^{1,2} , A.B. Jarzebski* ^{1,2} , ¹ Department of Chemical Engineering, Silesian University of Technology, Poland, ² Institute of Chemical Engineering, Polish Academy of Sciences, Poland
	SYMP. A - Biosensors
[A.2.7.1]	Multifunctional silica-based sensors by combination of ink-jet printing, EISA and click chemistry O. De Los Cobos* ¹ , M. Lejeune ¹ , F. Rossignol ¹ , C. Boissiere ² , C. Sanchez ² , M. Wong Chi Man ² , ¹ Limoges University, France, ² Pierre et Marie Curie Paris VI University, France, ³ Montpellier University, France, ⁴ HCP, Limoges University, France, ⁵ CIM, Limoges University, France
[A.2.7.2]	Selective Visual Detection with Fluorescence Color Change via Imine-Cysteine Interaction on Conjugated Polymer Coated Silica Nanoparticle G. Jang, D. Kim, J. Noh*, J. Kim, T.S. Lee, <i>Chungnam National University, Republic of Korea</i>
[A.2.7.3]	In-gel expression and <i>in situ</i> immobilization of proteins to generate a three dimensional protein array in a hydrogel matrix J-Y. Byung, K-H. Lee, K-Y. Lee, D-M. Kim*, <i>Chungnam National University, Republic of Korea</i>
[A.2.7.4]	Multifunctional ZnO and its nanostructures for biosensor applications P.I. Reyes ¹ , Z. Duan ¹ , N. Boustany ² , E. Galoppini ³ , Y. Lu* ¹ , ¹ Department of Electrical and Computer Engineering, Rutgers University, New Brunswick, USA, ² Department of Biomedical Engineering, Rutgers University, New Brunswick, USA, ³ Department of Chemistry, Rutgers University, Newark, USA
[A.2.7.5]	An electrochemical immunosensor for pathogenic <i>Staphylococcus aureus</i> bacteria based on immobilization of antibodies on modified gold electrode diazonium salt A. Chrouda* ^{1,2} , M. Braiek ² , K. Rokbani ³ , M. Abderrazak ¹ , J. Nicole ² , ¹ LIMA, Tunisia, ² ISA, France, ³ LATVPEP, Tunisia
[A.2.7.6]	Study of electrochemical behavior of the modified glassy carbon electrode with SWCNTs in different redox probes A. Chrouda* ^{1,2} , M. Hammami ¹ , A. Maaref ¹ , N. Jaffrezic-Renault ² , ¹ LIMA, Tunisia, ² LSA, France
[A.2.7.7]	Fluorescent probe for <i>in vivo</i> biothiols H.J. Kim, <i>Hankuk University of Foreign Studies, Republic of Korea</i>
[A.2.7.8]	Hybrid bio/non-bio interfaces based on protein-saccharides complexes I. Rea* ¹ , A. Calì ¹ , J. Politi ¹ , M. Terracciano ¹ , L. De Stefano ¹ , P. Giardina ^{1,2} , ¹ CNR, Italy, ² University of Naples "Federico II", Italy
	SYMP. A - Biotemplates
[A.2.8.1]	4555 bioglass[®]-derived scaffolds coated with organic-inorganic hybrids containing graphene P. Fabbri* ¹ , L. Valentini ² , A.R. Boccaccini ³ , J. Hum ³ , R. Detsch ³ , ¹ University of Modena and Reggio Emilia, Italy, ² University of Perugia, Italy, ³ University of Erlangen-Nuremberg, Germany
[A.2.8.2]	Fabrication of polypyrrole nano-arrays in lysozyme single crystals M.W. England* ¹ , E.M. Lambert ¹ , M. Li ¹ , L. Turyanska ² , A.J. Patil ¹ , S. Mann ¹ , ¹ University of Bristol, UK, ² University of Nottingham, UK
	SYMP. A - Drug delivery
[A.2.9.1]	Synthetic biomimetic hydroxyapatite nanocrystals for anticancer drug delivery M. Lelli*, S. Merli, G. Montebugnoli, N. Roveri, <i>University of Bologna, Italy</i>
[A.2.9.2]	Antimicrobial silver release from titanium oxide polymer hybrid coated PEEK J.D. Jarrell* ^{1,2} , N. Tran ³ , R.A. Hayda ^{2,3} , C.T. Born ^{2,3} , ¹ Biolntraface, Inc., USA, ² Alpert Medical School of Brown University, USA, ³ Rhode Island Hospital, USA
[A.2.9.3]	Simultaneous controlled release of proteins and drugs from polyelectrolyte-based coatings A.M. Peterson* ¹ , H. Möhwald ¹ , D.G. Shchukin ^{1,2} , ¹ Max Planck Institute of Colloids and Interfaces, Germany, ² University of Liverpool, UK
[A.2.9.4]	Hybrid polymer microparticles with magnetic properties for medical applications L. Bălăiță, M. Popa*, <i>Gheorghe Asachi Technical University of Iasi, Romania</i>

[A.2.9.5]	Poly(styrene oxide)-poly(ethylene oxide) block copolymers: From "classical" chemotherapeutic nanocarriers to active cell-response inducers A. Cambón ¹ , A. Rey-Rico ² , S. Barbosa* ¹ , J. Brea ³ , ¹ Grupo de Física de Coloides y Polimeros, Universidad de Santiago de Compostela, Spain, ² Grupo de I+D Farma, Facultad de Farmacia, Spain, ³ Instituto de Farmacia Industrial, Universidad de Santiago de Compostela, Spain
[A.2.9.6]	Biohybrid materials based on modified halloysite A. Ghebaur*, S.A. Garea, E. Vasile, H. Iovu, <i>University Politehnica of Bucharest, Romania</i>
[A.2.9.7]	Effect of surface functionalization on the properties of mesoporous silica as a carrier for photo- Unstable bioactive molecules G. Berlier* ¹ , I. Miletto ¹ , E. Bottinelli ¹ , L. Gastaldi ² , E. Ugazio ² , S. Sapino ² , ¹ Università degli Studi di Torino, Dipartimento di Chimica e Centro di Eccellenza NIS, Italy, ² Università degli Studi di Torino, Dipartimento di Scienza e Tecnologia del Farmaco, Italy
[A.2.9.8]	Cyclodextrins as a drug release system for different industrial applications R. Neto*, C. Silva, A. Monteiro, A.P. Cardoso, <i>CeNTI, Portugal</i>
[A.2.9.9]	Synthesis of polyethylene glycol-oligo(glutamic acid) conjugated with polyethylenimine-dexamethasone for gene delivery applications T.H. Kim, H. Choi, G.S. Yu, J.S. Choi*, <i>Chungnam National University, Republic of Korea</i>
[A.2.9.10]	Organic functionalization of mesoporous silica nanoparticles: Effect on the cisplatin loading/release profiles, colloidal stability and cytotoxicity M. Varache ¹ , F. Bouyer ² , I. Bezverkhy ¹ , L. Saviot ¹ , F. Baras ¹ , F. Bouyer* ¹ , ¹ Laboratoire Interdisciplinaire Carnot de Bourgogne, France, ² Université de Bourgogne, France
[A.2.9.11]	Silk fibroin micro- and nanoparticles for drug delivery systems C. Zaharia* ¹ , I.C. Stancu ¹ , B. Galateanu ² , E. Vasile ³ , R. Trusca ³ , H. Iovu ¹ , ¹ University Politehnica of Bucharest, Romania, ² University of Bucharest, Romania, ³ METAV Research Institute, Romania
[A.2.9.12]	Use of pseudoboehmite for drug delivery system of glucantime® J. Silva Martins, L. Souza Domingues, L. Figueiredo de Miranda, R. R. Ribeiro, A.M. Thiago de Souza, A. Hortencio Munhoz Jr*, <i>Universidade Presbiteriana Mackenzie, Brazil</i>
[A.2.9.13]	Bioactive phytochemical encapsulated into layered double hydroxide: structural, spectroscopic and "in vitro" biological evaluation V.R.L. Constantino* ¹ , V.R.R. Cunha ¹ , P.A.D. Petersen ² , V.A. Guilherme ³ , D.R. Araujo ^{3,4} , F. Leroux ⁵ , ¹ Instituto de Química da Universidade de São Paulo, Brazil, ² Instituto de Física da Universidade de São Paulo, Brazil, ³ Universidade Estadual de Campinas, Brazil, ⁴ Universidade Federal do ABC, Brazil, ⁵ Université Blaise Pascal, France
SYMP. A - Green materials	
[A.2.10.1]	Synthesis and application of epoxy resin modified with lignin derivatives G. Komiya, <i>Toshiba Corporation, Japan</i>
[A.2.10.2]	Characterization of green composites using chemically modified lignin as fillers J.S. Park*, S.H. Kim, J.M. Lee, <i>Seoul National University, Republic of Korea</i>
[A.2.10.3]	Fabrication and characterization of starch matrix - Banana fibres biodegradable composites L. Darwish ³ , M. Emara* ² , M. Farag ¹ , M. El-WAkad ³ , ¹ American University in Cairo, Egypt, ² Canadian International Collage, Egypt, ³ Helwan University, Egypt
[A.2.10.4]	Natural fibers treatment for application in polymer bio-composites S. Grishchuk*, L. Sorochynska, B. Wetzl, <i>Institut für Verbundwerkstoffe GmbH, Kaiserslautern, Germany</i>
SYMP. A - Living materials	
[A.2.11.1]	Hydrogel hybridizing cell-laden microspheres system for non-anchorage dependent cell delivery in tissue engineering W.Y. Leong, T.T. Lau, D.A. Wang*, <i>Nanyang Technological University, Singapore</i>
SYMP. A - Nanomedicine	
[A.2.12.1]	One component nanofibrillar cellulose hydrogel as 3D cell culture matrix M.M. Malinen ¹ , M. Bhattacharya ¹ , P. Lauren ¹ , Y.R. Lou ¹ , S.W. Kuisma ¹ , M. Yliperttula* ¹ , ¹ University of Helsinki, Finland, ² VTT Technical Research Centre of Finland, Finland, ³ Inserm UMR991, France, ⁴ Aalto University, Finland, ⁵ UPM-Kymmene Corporation, Finland
[A.2.12.2]	Formulation Development, Characterization and Toxicity Assessment of Donepezil Hydrochloride Loaded Nanostructured Lipid Carriers for Alzheimer's Therapy S. Sood* ¹ , K. Gowthamarajan ¹ , K. Jain ¹ , K. Elango ² , B. Suresh ³ , ¹ Department of Pharmaceutics, J.S.S. College of Pharmacy, Ootacamund, India, ² Department of Pharmacology, J.S.S. College of Pharmacy, Ootacamund, India, ³ J.S.S. University, Mysore, India
[A.2.12.3]	Preparation and Characterization of Nanostructured Lipid Carriers for Intranasal Delivery of Antimalarials K. Jain ¹ , S. Sood* ¹ , K. Gowthamarajan ¹ , K. Elango ² , B. Suresh ³ , ¹ Department of Pharmacology, J.S.S. College of Pharmacy, Ootacamund, India, ² Department of Pharmacology, J.S.S. College of Pharmacy, Ootacamund, India, ³ J.S.S. University, Mysore, India, India
[A.2.12.4]	Preparation and optimization of curcumin lipid nanocarriers for antimalarial chemotherapy K. Jain* ¹ , S. Sood ¹ , K. Gowthamarajan ¹ , K. Elango ² , B. Suresh ³ , ¹ Department of Pharmaceutics, J.S.S. College of Pharmacy, Ootacamund, India, ² Department of Pharmacology, J.S.S. College of Pharmacy, Ootacamund, India, ³ J.S.S. University, Mysore, India
[A.2.12.5]	Mucoadhesive nanoemulsions for intranasal delivery for management of Alzheimer's disease S. Sood ¹ , K. Jain* ¹ , K. Gowthamarajan ¹ , K. Elango ² , B. Suresh ³ , ¹ Department of Pharmaceutics, J.S.S. College of Pharmacy, Ootacamund, India, ² Department of Pharmacology, J.S.S. College of Pharmacy, Ootacamund, India, ³ J.S.S. University, Mysore, India
[A.2.12.6]	Polysaccharide nanoparticles for cancer diagnostics and treatment T. Ciach*, I. Wasiak, <i>Warsaw University of Technology, Poland</i>
[A.2.12.7]	Injectable Cyanoacrylate-based Magnetic Media for Intraluminal Bowel Magnetic Retraction Z. Wang ¹ , A. Brown ¹ , P. André ² , S.I. Brown ¹ , E. Wright* ² , G.J. Florence ² , A. Cuschieri ¹ , ¹ University of Dundee, UK, ² University of St Andrews, UK
[A.2.12.8]	Boron nitride nanotubes functionalized with glycol-chitosan used as transfection agent in NG-97 cell line T.H. Ferreira* ¹ , L.M. Hollanda ² , M. Lancellotti ² , E.M.B. Sousa ¹ , ¹ SENAN, Brazil, ² LABIOTEC, Brazil

	SYMP. A - Other
[A.2.13.1]	A potential bioactive Ca-containing hybrid material with Sr release capability J.C. Almeida ^{*1} , A.G.B. Castro ¹ , I.M.M. Salvado ¹ , F.M.A. Margaça ² , M.H.V. Fernandes ¹ , ¹ University of Aveiro, Portugal, ² Technical University of Lisbon, Portugal
[A.2.13.2]	Fibroblast growth on micro- and nanopatterned surfaces prepared by a novel sol-gel phase separation method T. Kangur ^{*1} , P. Reemann ³ , M. Paalo ^{1,2} , L. Nurmis ¹ , V. Jaks ⁴ , M. Järvekülg ^{1,2} , ¹ Institute of Physics, University of Tartu, Estonia, ² Estonian Nanotechnology Competence Centre, Estonia, ³ Department of Physiology, University of Tartu, Estonia, ⁴ Institute of Molecular and Cell Biology, University of Tartu, Estonia
[A.2.13.3]	Design and synthesis of novel ambipolar and electroluminescent oligothiophene semiconductors M. Melucci ^{*1} , P. Olivelli ² , L. Favaretto ¹ , M. Durso ¹ , C. Bettini ² , M. Zambianchi ¹ , ¹ CNR, Italy, ² Laboratory MIST E-R, Italy
[A.2.13.4]	Use of chitosan-silicate hybrid porous membrane for repairing rat sciatic nerve defects Y. Shirosaki ^{*1,2} , S. Hayakawa ² , A. Osaka ² , J.D. Santos ³ , A.C. Mauricio ^{3,4} , ¹ Kyushu Institute of Technology, Japan, ² Okayama University, Japan, ³ Universidade do Porto, Portugal, ⁴ Universidade Técnica de Lisboa, Portugal
[A.2.13.5]	A fusion protein approach in directing enzymatic cross-linking functionality to the air-water interface A. Paananen [*] , D. Ercili-Cura, M. Saloheimo, R. Lantto, M.B. Linder, <i>VTT Technical Research Centre of Finland, Finland</i>
[A.2.13.6]	Preparation and characterization of chitosan assisted immobilization of enzyme serratiopeptidase on magnetic nanoparticles S. Kumar [*] , A.K. Jana, <i>Dr. B.R. Ambedkar National Institute of Technology, India</i>
	SYMP. A - Synthetic/biopolymer hybrids
[A.2.14.1]	Complexation of metal ions by organic-inorganic hybrid colloidal silica materials M. Euvrard [*] , J. Husson, A. Escoda, M. Knorr, <i>Université de Franche-Comté, France</i>
[A.2.14.2]	Glycopolypeptides and their self-assembled nanostructures as drug delivery vehicles S.S. Sen Gupta ^{*1} , D.P. Pati ¹ , N.K. Kalva ¹ , S.D. Das ¹ , V.D. Dhaware ¹ , A.A. Ambade ¹ , ¹ National Chemical Laboratory, India, ² Academy of Scientific and Innovation Research, India
[A.2.14.3]	Synthesis and magneto-rheology of magnetosensitive bionanocomposites L. Ourry ^{*1} , F. Mammeri ¹ , C. Galindo-Gonzalez ¹ , N. Benjamaal ¹ , S. Gantz ² , ¹ ITODYS, Université Paris Diderot, France, ² MSC, Université Paris Diderot, France
[A.2.14.4]	Protein-nanoparticle bioconjugates: Enhanced protein stability and inhibition of fibrillogenesis S. Goy ¹ , P. Taboada ^{*1} , M. Alatorre-Meda ¹ , V.F. Puentes ² , ¹ Universidad de Santiago de Compostela, Spain, ² UAB, Bellaterra, Spain
[A.2.14.5]	Evaluating of chemical and biological properties of poly (glycerol sebacate) with different molar ratio of reactants S. Salehi ^{*1,2} , M.H. Fathi ¹ , S. Haghjooyjavanmard ³ , T. Bahners ² , J.S. Gutmann ² , T.A. Fuchsluger ⁴ , ¹ Isfahan University of Technology, Iran, ² Institut of the Duisburg-Essen University, Germany, ³ Isfahan University of Medical Sciences, Iran, ⁴ Heinrich-Heine-University, Germany
[A.2.14.6]	Molecular simulation as a powerful tool for biohybrid system design R.A. Latour ^{*1} , X. Li ¹ , M. Becker ² , ¹ Clemson University, USA, ² University of Akron, USA
[A.2.14.7]	Magnetic nanoParticles & Artificial Amphiphilic Polymers to Design Magneto-Mucoadhesive Hybrid Materials for Surgery Application P. André ¹ , I. Birced ¹ , D. Mayoh ¹ , E. Wright ^{*1} , L.R. Tai ¹ , Z. Wang ² , A. Brown ² , S.I. Brown ² , A. Cuschieri ² , G.J. Florence ¹ , ¹ University of St Andrews, UK, ² University of Dundee, UK
	SYMP. B - Applications
[B.2.1.1]	Application of functionalized lanthanide nanoparticles for the detection of algal biotoxins D.M. Lyons [*] , F. Stipic, G. Pletikacic, V. Svetlicic, Z. Jaksic, L. Frkanec, <i>Rudjer Boskovic Institute, Croatia</i>
[B.2.1.2]	Electro-optical properties of light emitting hybrid devices based on poma/Zn2SiO4:Mn composite D.L. Chinaglia ^{*1} , J.C. Stefanelo ² , E.C.C. dos Santos ¹ , G. Gozzi ¹ , R.M. Faria ² , ¹ Universidade Estadual Paulista, Brazil, ² Universidade de São Paulo, Brazil
[B.2.1.3]	Fibrous hybrid clays: Palygorskite and sepiolite grafted with (3-aminopropyl)triethoxysilane as multifunctional adsorbents E.H. De Faria ^{*1} , L. Marçal ¹ , E.J. Nassar ¹ , P.S. Calefi ¹ , K.J. Ciuffi ¹ , R. Trujillano ² , ¹ Universidade de Franca, Brazil, ² Universidad de Salamanca, Spain, ³ Universidad Publica de Navarra, Spain
[B.2.1.4]	Hybrid Organic/Inorganic Liquid Electronics P. André ^{*1,2} , T. Muto ² , M. Uchiyama ² , T. Aoyama ² , J.C. Ribierre ^{3,2} , ¹ School of Physics and Astronomy (SUPA), University of St Andrews, UK, ² RIKEN Advanced Science Institute, Japan, ³ Department of Physics, Ewha Womans University (Korea), UK
[B.2.1.5]	Effect of nanofiber thickness on the impact damage resistance of nanofiber-interleaved GFRP H. Saghafi [*] , R. Palazzetti, G. Minak, A. Zucchelli, <i>University of Bologna, Italy</i>
[B.2.1.6]	TiO₂-based glazes for self-cleaning ceramic tiles V.B. Tezza, M. Scarpatto, A.M. Bernardin [*] , <i>UNESC, Brazil</i>
[B.2.1.7]	Corrosion protection of carbon steel by nano-titanium dioxide coating in acid medium M.A. Deyab ^{*1} , S.T. Keera ¹ , ¹ Egyptian Petroleum Research Institute, Egypt, ² Egyptian Petroleum Research Institute, Egypt
[B.2.1.8]	Development of long-lasting protective material for polished porcelain stoneware tiles to increase stain resistance and cleanability Part 2: To evaluate the effects of process parameters N. Tamsu Selli [*] , A. Tunali, <i>Eczacibasi Building Products Co. Vitra Innovation Center, Turkey</i>
[B.2.1.9]	Development of long-lasting protective material for polished porcelain stoneware tiles to increase stain resistance and cleanability part 1: Design of composition A. Tunali, N. Tamsu Selli [*] , <i>Eczacibasi Building Products Co. Vitra Innovation Center, Turkey</i>
[B.2.1.10]	Pentacenequinone derivatives: Synthesis, self-assembly and their photophysical behaviour A. Gupta [*] , V. Bhalla, <i>Guru Nanak Dev University, Amritsar, India</i>

SYMP. B - Energy , environmental and structural hybrids	
[B.2.2.1]	Various nickel doping in commercial Ni-Mo/Al₂O₃ as catalysts for natural gas decomposition to CO_x-free hydrogen production A.E. Awadallah, A.A. Aboul-Enein*, A.K. Aboul-Gheit, <i>Egyptian Petroleum Research Institute, Egypt</i>
[B.2.2.2]	A Simple synthetic protocol and unique properties of four kinds individual nanoparticles dispersed in polymer particle W.S. Choi ¹ , M.S. Islam ² , H-J. Lee ² , ¹ Hanbat National University, Republic of Korea, ² Korea Basic Science Institute, Republic of Korea
[B.2.2.3]	Multilayer assembly with metal ion-enriched polyelectrolyte complexes toward the catalytic nanocomposites films H.J. Lee ^{*1} , M.S. Islam ¹ , W.S. Choi ² , ¹ Korea Basic Science Institute, Republic of Korea, ² Hanbat National University, Republic of Korea
[B.2.2.4]	Cucurbiturils influences in the electrical insertion ions lithium at V₂O₅ lamellar F.A. Silva*, G.J.F. Demets, <i>University of São Paulo, Brazil</i>
[B.2.2.5]	Preparation of functionalized carbon nanomaterial for removal of arsenic from water N. Mahanta, J. Paul Chen*, <i>National University of Singapore, Singapore</i>
[B.2.2.6]	Generic synthesis of crumpled graphene-nanocrystal hybrids and their applications S. Mao, Z.H. Wen, H. Kim, G.H. Lu, J.H. Chen*, <i>University of Wisconsin-Milwaukee, USA</i>
[B.2.2.7]	Nanoparticle decorated graphene based hybrid materials for energy harvesting applications C.V. Pham, M. Eck, M. Krueger*, <i>University of Freiburg, Germany</i>
[B.2.2.8]	Cellulose nanofibers/ multi-walled carbon nanotube all-solid-state flexible supercapacitors K.Z. Gao*, Z.Q. Shao, Y.H. Zhang, J. Li, X. Wang, W.W. Wang, <i>Beijing Institute of Technology, China</i>
[B.2.2.9]	The synthesis of hierarchical porous nickel cobalt oxides for supercapacitors J. Sun*, J. Chang, L. Gao, <i>Shanghai Institute of Ceramics, China</i>
[B.2.2.10]	Silica-curcumin coated cellulose : Properties and applications R. Buntem*, S. Vorapracha, K. Pramual, <i>Silpakorn University, Thailand</i>
[B.2.2.11]	A versatile approach for creating hybrid architectures of carbon allotropes with electron acceptors or electron donor-acceptors S. Kourkoulis ¹ , S. Kakogianni ¹ , A.K. Andreopoulou ^{*1,2} , J.K. Kallitsis ^{1,2} , ¹ University of Patras, Greece, ² Foundation for Research and Technology Hellas, Greece
[B.2.2.12]	Fabrication of visible-light-responsive Cu, N-codoped titanate nanotubes for enhanced photocatalytic degradation of emerging contaminants S.M. Chang ¹ , R.A. Doong ^{*2} , C.Y. Liao ² , ¹ National Chiao Tung University, Taiwan, ² National Tsing Hua University, Taiwan
[B.2.2.13]	Non-precious metal electrocatalysts based on N-doped functional carbons from ionic liquids for pem fuel cells K. Elumeeva*, T.P. Fellingner, M. Antonietti, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
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[B.2.3.1]	Synthesis and applications of anion exchangeable lanthanide hydroxide nanoparticles A.M. Fogg*, T.C. Jellicoe, J.R. Rees, L. Bogart, R. Levy, <i>University of Liverpool, UK</i>
[B.2.3.2]	Tuning the interplay between exchange bias and dipolar interactions in magnetic core-shell nanoparticles by an appropriate surface functionalization by poly(methyl methacrylate) brushes L. Ourry ^{*1} , F. Mammerti ¹ , M. Delamar ¹ , T. Gaudisson ¹ , S. Ammar ¹ , S. Nowak ¹ , ¹ Université Paris Diderot, France, ² Université du Maine, France, ³ Université Pierre et Marie Curie, France
[B.2.3.3]	Dye inclusion within nanochannels for Optoelectronic Properties L. Gartzia-Rivero, V. Matinez-Martinez, N. Epelde-Elezcano, R. Sola-LLano, J. Bañuelos-Prieto, I. López-Arbeloa*, <i>Universidad del país Vasco, Spain</i>
[B.2.3.4]	Preparation of conjugated polymer nanospheres for protein sensing J. Noh*, G. Jang, D. Kim, T.S. Lee, <i>Chungam National University, Republic of Korea</i>
[B.2.3.5]	POSS-octa(tetraalkylammonium) star-shaped ILS S. Lo Schiavo, S. Manickam, P. Cardiano*, <i>University of Messina, Italy</i>
[B.2.3.6]	Metal-complex-type organic nanotube as heterogeneous catalysts for oxidation reactions M. Aoyagi*, T. Chattopadhyay, M. Kogiso, M. Masuda, M. Asakawa, T. Shimizu, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
[B.2.3.7]	A three-fold novel nanosystem made by SiC/SiO₂ core/shell nanowires functionalized with magnetic nanoparticles and substituted porphyrin for nanomedicine applications G. Salviati ^{*1} , F. Fabbri ¹ , F. Rossi ¹ , L. Nasi ¹ , M. Campanini ¹ , G. Attolini ¹ , ¹ IMEM-CNR, Italy, ² University of Parma, Italy
[B.2.3.8]	Synthesis of Janus Silica Nanoparticles at The Gram Scale and Study of Their Incorporation Into Polymer Blends T. Parpaite*, B. Otazaghine, A. Taguet, J-M. Lopez-Cuesta, <i>Centre de recherche CMGD, Ecole des Mines d'Alès, France</i>
[B.2.3.9]	Cisplatin functionalized single walled carbon nanotubes for controlled drug delivery systems C.C. Ciobotaru ^{*1} , C.M. Damian ¹ , E. Vasile ² , H. Iovu ¹ , ¹ Advanced Polymer Materials Group, Politehnica University of Bucharest, Romania, ² METAV Research Institute, Bucharest, Romania
[B.2.3.10]	Facile modification of surface of silica particles with organosilanepolyol B.R. Yoo*, D.E. Jung, J.S. Han, <i>Korea Institute of Science and Technology, Republic of Korea</i>
[B.2.3.11]	Fabrication of superhydrophobic, electrically conducting cotton fabric with multiwall carbon nanotubes A. Tracz ^{*1} , W. Fortuniak ¹ , S. Brzezinski ² , D. Kowalczyk ² , ¹ Polish Academy of Sciences, Poland, ² Textile Research Institute, Poland
[B.2.3.12]	Synthesis, characterization and testing of temperature-responsive hybrid drug carriers I. Miletto, G. Berlier*, D. Scalarone, V. Brunella, S. Coluccia, <i>University of Torino, Italy</i>
[B.2.3.13]	Colloidal synthesis of Au semishells D. Rodríguez-Fernández ^{*1} , J. Pérez-Juste ¹ , I. Pastoriza-Santos ¹ , L.M. Liz-Marzán ^{1,2} , ¹ University of Vigo, Spain, ² Cooperative Centre for Research in Biomaterials, Spain, ³ Basque Foundation for Science, Spain

[B.2.3.14]	Photoresponsive poly(ethylene glycol)-based materials for biomedical application E. Sokolovskaya* ¹ , S. Rahmani ² , S. Braese ¹ , J. Lahann ^{1,2} , ¹ Karlsruhe Institute of Technology, Germany, ² University of Michigan, USA
[B.2.3.15]	Decoration of carbon nanowalls with metal nanoparticles for hybrid electrodes in electrochemistry S. Vizireanu* ^{1,2} , A. Lazea Stoyanova ¹ , S.D. Stoica ¹ , L. Nistor ³ , G. Dinescu ¹ , ¹ National Institute for Laser, Romania, ² Petroleum-Gas University of Ploiesti, Romania, ³ National Institute for Material Physics, Romania
[B.2.3.17]	Preparation of composites of luminescent polymer in layered host compounds I. Diaz Mesa*, P.J.S. Foot, R.A. Kresinski, Kingston University, UK
[B.2.3.18]	Tetra-substituted copper phthalocyanine (CuPcR₄)/single-walled carbon nanotube hybrid structures: Thin films' properties and potential applications A.K. Hassan ¹ , ¹ Sheffield Hallam University, UK, ² Sheffield Hallam University, UK, ³ RAS, Russia, ⁴ Gebze Institute of Technology, Turkey, ⁵ TMarmara Research Center, Turkey, ⁶ Novosibirsk State University, Russia
[B.2.3.19]	Vertically aligned carbon nanotube carpets : A new material for filters or membranes P. Boulanger*, M. Mayne-l'hermite, M. Pinault, Laboratoire Francis Perrin, France
[B.2.3.20]	Fluorescence enhancement using gold nanoparticles T. Ribeiro, C. Baleizão, J.P.S. Farinha*, Instituto Superior Tecnico, Portugal
[B.2.3.22]	Photochemical reactions of aggregated states of methylene blue in metallic nanoclusters in SDS micellar medium A.T. Souza*, I.L. Nantes, UFABC, Brazil
[B.2.3.23]	Stabilization of colloidal system based on inorganic nanosheets dispersed in organic solvent: Room temperature exfoliation of DODA⁺ hexaniobate layered hybrid nanocomposite A. Duarte, V.R.L. Constantino*, University of São Paulo, Brazil
[B.2.3.24]	Novel epoxy-inorganic nanocomposites containing functional anti-oxidative nano-building blocks A. Strachota* ¹ , F. Ribot ^{2,3} , L. Matejka ¹ , M. Perchacz ¹ , B. Strachota ¹ , M. Slouf ¹ , ¹ Academy of Sciences of the Czech Republic, Czech Republic, ² UPMC, Collège de France, France, ³ CNRS, Collège de France, France
[B.2.3.25]	Utilization of surface initiated ATRP for the development of hybrid nanoparticles with designed separation A. Yar*, A. Ozturk, A. Yagci Acar, Koç University, Turkey
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[B.2.4.1]	Visible light photocatalysis with tungsten oxide hydrate nanowhiskers dispersed in mesoporous polycarbosilane-siloxane polymer M. Seifollahi Bazarjani*, M. Hojamberdiev, K. Morita, G. Zhu, T. Herrmann, H. Breitzke, Technische Universität Darmstadt, Germany
[B.2.4.2]	Synthesis and optical properties of raspberry-like SiO₂@Ag_n nanoresonators A.L.B. Le Beulze* ^{1,3} , A.D. Desert ¹ , P.M. Masse ¹ , S.M. Mornet ¹ , S.R. Ravaine ^{2,3} , M.T. Treguer-Delapierre ^{1,3} , ¹ ICMCB, France, ² CRPP, France, ³ Université Bordeaux 1, France
[B.2.4.3]	Characterization of novel periodic mesoporous organosilicas with functional chromophores by small-angle X-ray scattering A. Keilbach* ¹ , Y. Li ² , T. Bein ² , Y. Goto ³ , S. Inagaki ³ , F. Löbermann ² , ¹ Anton Paar GmbH, Austria, ² University of Munich, Germany, ³ Toyota Central R&D Laboratories Inc., Japan
[B.2.4.4]	Hybrid cellular materials - Mechanical behaviour and microstructure characterization of the nanocrystalline coating U. Klement* ¹ , S.N. Mortazavi ¹ , G. Hibbard ² , ¹ Chalmers University of Technology, Sweden, ² University of Toronto, Canada
[B.2.4.5]	Functionalization of 3C-SiC Nanowires with Porphyrins by Supersonic Molecular Beams for Photodynamic Therapy L. Aversa ¹ , R. Tatti ¹ , R. Verucchi ¹ , F. Fabbri ² , F. Rossi ² , M. Bosi ² , S. Iannotta* ² , ¹ IMEM-CNR Istituto dei Materiali per l'Elettronica ed il Magnetismo-Povo(Trento), Italy, ² IMEM-CNR Istituto dei Materiali per l'Elettronica ed il Magnetismo- Parma, Italy
[B.2.4.6]	Incorporation of Silica Nanoparticles with Hydrophobic/Oleophobic Properties in Wood Substrates A. Monteiro*, R. Neto, A.P. Cardoso, C. Silva, Centro de Nanotecnologia e Materiais Técnicos, Funcionais e Inteligentes, Portugal
[B.2.4.7]	Grafting responsive polymer brushes from nanoporous substrates for multifunctional protein assays M.G. Santonicola* ^{1,2} , G.W. de Groot ¹ , G.J. Vancso ¹ , ¹ University of Twente, The Netherlands, ² Sapienza University of Rome, Italy
[B.2.4.8]	Nanomorphology of stearyl - poly(ethylene oxide) copolymers in blends with a thermosetting epoxy resin K. Bogaerts*, B. Goderis, KU Leuven, Belgium
[B.2.4.9]	Effect of solvent on crystallographic orientations of sol-gel nickel oxide thin films N. Talebian*, P. Babarabei, Shahreza Islamic Azad University, Iran
[B.2.4.10]	Dendritic Polyamidoamine Synthesized by One-Step Solid State Reaction A.F. Rubira* ¹ , V.A. Tomaz ¹ , R. Silva ¹ , V.H. Fragal ¹ , E.C. Muniz ¹ , ¹ Universidade Estadual de Maringá, Maringá, Paraná, Brazil, ² Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey, Piscataway, New Jersey, USA
[B.2.4.11]	Electrochemical properties of Au and Pt- modified mezo and macro-porous silicon electrode for fuel cell applications T. Ignat*, M. Kusko, F. Craciunoiu, A. Bragaru, M. Simion, I. Mihalache, IMT-Bucharest, Romania
[B.2.4.12]	New strategies to develop highly effective solid state photochromic hybrid organic-inorganic polyoxometalates R. Dessapt* ¹ , K. Hakouk ¹ , S. Jobic ¹ , A. Dolbecq ² , O. Oms ² , P. Mialane ² , ¹ University of Nantes, France, ² University of Versailles, France
[B.2.4.13]	The implications of finite size effect on magnetic behavior of rare earth manganite and bismuth ferrite compounds V. Shelke ^{1,2} , H. Reshi* ^{1,2} , S. Pillai ^{1,2} , D. Tripathi ^{1,2} , R. Yadav ^{1,2} , R. Yadav ^{1,2} , ¹ Barkatullah University, Bhopal, India, ² Barkatullah University, Bhopal, India
[B.2.4.14]	Preparation of metal nanoparticles into hybrid layered ZnO(carboxylic acid) and their optical properties E. Benavente* ^{1,5} , L. Diaz ^{2,5} , C. Sotomayor ³ , G. Gonzalez ^{4,5} , ¹ Universidad Tecnológica Metropolitana, Chile, ² Universidad de Santiago de Chile, Chile, ³ Catalan Institute of Nanotechnology, Spain, ⁴ Universidad de Chile, Chile, ⁵ Center for the Development of Nanociencia and Nanotechnology CEDENNA, Chile
[B.2.4.15]	Tailor-made ceria nanocrystals by organic-ligand-assisted hydrothermal synthesis

	S. Ohara*, K. Yamamoto, Z. Tan, N. Qiu, T. Hashishin, <i>Osaka University, Japan</i>
[B.2.4.16]	Nanostructured porous film of doped TiO₂-anatase semiconductor for dye sensitized solar cells (DSSCs) D. Gozzi*, A. Latini, <i>Università di Roma "La Sapienza", Italy</i>
[B.2.4.17]	Shape-controlled synthesis of inorganic nanostructures L. Gao, <i>Shanghai Jiao Tong University, China</i>
[B.2.4.18]	Magneto-optical study of composite wires of nano- and micrometrical scale A. Chizhik*, A. Zhukov ^{1,2} , J. Gonzalez ¹ , ¹ <i>Universidad del Pais Vasco, Spain</i> , ² <i>Basque Foundation for Science, Spain</i>
[B.2.4.19]	Electrochemical modification of carbon fibers (CF), deposition of nickel and chemical vapour deposition to develop carbon nanostructures on the CF M. Pisania*, P. Georgiou, J. Simitzis, <i>National Technical University of Athens, Greece</i>
[B.2.4.20]	New smart functional metal/polymer nanocomposites with spatially oriented FeGa particles T.Y. Kiseleva*, I.A. Il'inykh ² , S.I. Zholudev ¹ , A.A. Novakova ¹ , ¹ <i>Lomonosov Moscow State University, Russia</i> , ² <i>National University of Science and Technology, Russia</i>
[B.2.4.21]	PMAA hydrogel cross-linking by iron complexes embedding L.V. Khenkin, A.A. Novakova*, <i>Lomonosov Moscow State University, Department of Physics, Russia</i>
[B.2.4.22]	MOF-based photonic crystal sensors A. Ranft* ^{1,2} , F. Hinterholzinger ¹ , F. Niekietl ³ , I. Pavlichenko ^{1,2} , J. Feckl ¹ , B. Rühle ¹ , N. Stock ³ , T. Bein ¹ , B. Lotsch ^{1,2} , ¹ <i>University of Munich, Germany</i> , ² <i>Max Planck Institute for Solid State Research, Germany</i> , ³ <i>Christian Albrecht University, Germany</i>
[B.2.4.23]	Synthesis and materials application of vinylimidazolium-typed poly(ionic liquid)s S. Soll*, M. Antonietti, J. Yuan, <i>Max Planck Institute of Colloids and Interface, Germany</i>
[B.2.4.24]	Breath figure micro and nanopores prepared by spin coating of polystyrene on the surface of polymer films A.F. Rubira* ¹ , V.H. Fragal ¹ , R. Silva ² , T.S.P. Cellet ¹ , V.A. Tomaz ¹ , E.H. Fragal ¹ , ¹ <i>Universidade Estadual de Maringá, Brazil</i> , ² <i>The State University of New Jersey, USA</i>
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[B.2.5.2]	Bismuth-containing organic-inorganic hybrid materials starting from nanoscaled molecular precursors L. Wrobel*, L. Miersch, M. Schlesinger, M. Mehring, <i>Technische Universität Chemnitz, Germany</i>
[B.2.5.3]	Correlation between interfacial forces and mechanical properties in biomimetic polysaccharide-based nanocomposites M. Österberg*, A. Olszewska, J. Lucenius, <i>Aalto University, Finland</i>
[B.2.5.4]	The synthesis and properties of sandwich-type nanocomposite particles based on hexaferrite (BaFe₁₂O₁₉) and spinel ferrite (γ-Fe₂O₃) D. Primc* ¹ , M. Drofenik ^{1,2} , D. Makovec ¹ , ¹ <i>Jozef Stefan Institute, Slovenia</i> , ² <i>Faculty for Chemistry and Chemical Technology, Slovenia</i>
[B.2.5.5]	Tin and Titanium Oxo-Clusters as New Dynamers for the Build Up of Smart Hybrid Materials with Self-Healing Properties L. Rozes ¹ , F. Potier* ¹ , F. Ribot ¹ , C. Sanchez ¹ , A. Guinault ² , S. Delalande ³ , ¹ <i>Université Pierre et Marie Curie, France</i> , ² <i>Arts et Métiers ParisTech, France</i> , ³ <i>PSA Peugeot Citroën, France</i>
[B.2.5.6]	Thermal stability and mechanical properties of polybenzoxazine-montmorillonite hybrid nanocomposites P.O. Stanescu*, C. Andronescu, S. Garea, H. Iovu, <i>Politehnica University of Bucharest, Romania</i>
[B.2.5.7]	Pseudoboehmite synthesis by sol-gel process and <i>in situ</i> incorporation in PMMA nanocomposite L. Figueiredo de Miranda, M. Nogueira de Melo, D.A. Jafelice, T. Jocelen Masson, M.C. Terence, A. Hortêncio Munhoz Jr.*, <i>Universidade Presbiteriana Mackenzie, Brazil</i>
[B.2.5.8]	Mechanical Behaviors of Nylon 6 Nanocomposite Utilizing Micromechanics-based Models J-I. Weon, S-B. Park*, <i>Dongguk University, Republic of Korea</i>
[B.2.5.10]	Ionic Liquids to Influence the Crystalline Structure of nanoColloids P. André* ^{1,2} , S. Chen ¹ , M.J. Muldoon ³ , K. Anderson ³ , ¹ <i>School of Physics and Astronomy (SUPA), University of St Andrews, UK</i> , ² <i>RIKEN Advanced Science Institute, Japan</i> , ³ <i>School of Chemistry and Chemical Engineering and the Queen's University Ionic Liquid Laboratories (QUILL), Queen's University Belfast, UK</i>
[B.2.5.11]	Organic-inorganic thermoresponsive hydrogels with extraordinary mechanical properties and rapid response to temperature change B. Strachota*, M. Slouf, L. Kapralkova, A. Strachota, L. Matejka, <i>Academy of Sciences of the Czech Republic, Czech Republic</i>
[B.2.5.12]	Anticorrosive coating of carbon steel using nano composite prepared from polystyrene \modified local clay L.A. Al Juhaïman*, W.K. Mekhamer, D.A. Al Anezi, <i>King Saud University, Saudi Arabia</i>
[B.2.5.13]	Mechanical and thermal properties of hybrid coatings through the sol-gel process, of silica- montmorillonite- methylmethacrylate J.L. Almaral-Sanchez* ¹ , L.G. Ceballos-Mendivil ¹ , A. Hurtado-Macias ² , A. Cruz-Enriquez ¹ , J.J. Campos-Gaxiola ¹ , S.P. Arredondo-Rea ¹ , R. Corral-Higuera ¹ , ¹ <i>Universidad Autonoma de Sinaloa, Mexico</i> , ² <i>Centro de Investigacion en Materiales Avanzados, Mexico</i>
[B.2.5.14]	Ulathrin hybrid POSS-polyimides by interfacial polymerization M.J.T. Raaijmakers, M. Hempenius, P. Schön, M. Wessling, N.E. Benes*, <i>University of Twente, The Netherlands</i>
[B.2.5.15]	Molecular modelling of the mechanical behaviour of the epoxy resin embedded with graphene and graphene oxide M. Ionita*, A. Pandele, H. Iovu, <i>University POLITEHNICA of Bucharest, Romania</i>
[B.2.5.16]	Semiconductor hybrid nanocomposites. design, preparation, and regulation of properties G. Gonzalez* ^{1,3} , E. Benavente ^{2,3} , M.A. Santa Ana ^{1,3} , D. Navas ^{1,3} , ¹ <i>Universidad de Chile, Chile</i> , ² <i>Universidad Tecnológica Metropolitana, Chile</i> , ³ <i>CEDENNA, Chile</i>
[B.2.5.17]	An integrated gas-phase process to generate core-shell nanoparticles via bipolar coagulation with subsequent photopolymerization E. Akgün ¹ , ¹ <i>KIT, Germany</i> , ² <i>BASF SE, Germany</i>

[B.2.5.18]	Synthesis and study of Cu and Cu-Sn nanoparticles and their porous nanocomposites based on carbon foam I. Markova*, T. Petrov, I. Denev, <i>Ivan Denev University of Chemical Technology and Metallurgy, Bulgaria</i>
[B.2.5.19]	Hierarchical titania coated carbon nanofibrous material derived from natural cellulose substance X.Y. Liu*, J.G. Huang, <i>Zhejiang University, China</i>
[B.2.5.20]	Carbon nanotubes as nanoreactors for magnetic applications X. Li* ^{1,2} , T. Hungria ² , S. Lachaize ² , J. Durand ¹ , K. Soulantica ² , P. Serp ¹ , ¹ <i>Laboratoire de Chimie de Coordination, France</i> , ² <i>INSA, France</i>
[B.2.5.21]	Electrical and mechanical properties of injection moulded carbon nanotube filled polymer parts J. Tiusanen* ¹ , B. Kiss-Pataki ² , M. Wegrzyn ³ , A. Matveeva ⁴ , D. Vlasveld ¹ , J. Vuorinen ⁵ , ¹ <i>Promolding B.V., The Netherlands</i> , ² <i>Hungarian Academy of Sciences, Hungary</i> , ³ <i>AIMPLAS, Spain</i> , ⁴ <i>University of Minho, Portugal</i> , ⁵ <i>Tampere University of Technology, Finland</i>
[B.2.5.22]	Effect of the halloysite nanotubes on the mechanical properties of the PET/PP blends A. Hassan*, N. Abdul Razak, S.A. Samsudin, <i>Universiti Teknologi Malaysia, Malaysia</i>
[B.2.5.23]	Mechanical behaviour of nano-hybrid hydrogels: From the simple chemical network to hybridization S. Rose, A. Dizeux, T. Narita, D. Hourdet, A. Marcellan*, G. Agoda-Tandjawa, <i>CNRS, France</i>
[B.2.5.24]	Hierarchical Au nanoparticle assembly into ordered PMMA based microporous films M. Tamborra ¹ , N. Depalo ² , E. Fanizza ² , A. Agostiano ^{1,2} , M. Striccoli* ¹ , M.L. Curri ¹ , ¹ <i>CNR IPCF sez. Bari c/o Dip. Chimica, Università di Bari, Via Orabona 4, I-70126 Bari, Italy</i> , ² <i>Dipartimento di Chimica, Università di Bari, via Orabona 4, I-70126 Bari, Italy</i>
[B.2.5.25]	Sonochemical synthesis of ZnO nanoparticles embedded on a thermoplastic matrix Y.R. Corrales* ¹ , P. Lisboa ¹ , ¹ <i>UNESP, Brazil</i> , ² <i>CONICIT, Costa Rica</i>
[B.2.5.26]	Superhydrophobic and electroconductive carbon nanotube-fluorinated acrylic copolymer nanocomposites from emulsions I.S. Bayer* ^{1,2} , A. Steele ² , E. Loth ² , ¹ <i>Istituto Italiano di Tecnologia, Italy</i> , ² <i>University of Virginia, USA</i>
[B.2.5.27]	LDH hybrids as precursors for the synthesis of multifunctional FeNi₃-carbon nanocomposites G. Abellán* ¹ , E. Coronado ¹ , C. Martí-Gastaldo ¹ , T.F. Otero ² , H. Prima-García ¹ , A. Ribera ¹ , ¹ <i>Institute for Molecular Science, Spain</i> , ² <i>Polytechnic University of Cartagena, Spain</i>
[B.2.5.28]	New easily processable polyimides and their composites with carbon nanotubes: Preparation and characterization T.F. da Conceicao*, M.I. Felisberti, <i>Universidade Estadual de Campinas, Brazil</i>
[B.2.5.29]	Inorganic/organic multiphase nanostructured thermosetting materials J. Gutierrez, L. Cano, D.H. Builes, R. Fernández, A. Tercjak*, <i>University of the Basque Country, Spain</i>
[B.2.5.30]	Influence of polyurethane nanocomposite superhydrophobicity on biofouling inception G. Krishnan ¹ , R. Loth* ² , P. Malm ¹ , I. Bayer ³ , ¹ <i>University of Virginia, USA</i> , ² <i>University of Illinois, USA</i> , ³ <i>Italian Institute of Technology, Italy</i>
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[B.2.6.1]	Synthesis and Characterization of Hybrid MoS₂-coated Graphene on Nickel Substrate M. Sarno* ^{1,2} , P. Ciambelli ^{1,2} , E. Ciliberto ³ , C. Altavilla* ² , ¹ <i>Department of Industrial Engineering University of Salerno, Italy</i> , ² <i>Centre NANO_MATES University of Salerno, Italy</i> , ³ <i>Department of Chemical Science, University of Cataniab, Italy</i>
[B.2.6.2]	Particle size dependent silver nanoparticles on antimicrobial activity G. Sarala Devi* ¹ , A.K. Ganguli ² , K.R. Chary ³ , ¹ <i>Indian Institute of Chemical Technology, India</i> , ² <i>Indian Institute of Technology, India</i> , ³ <i>Rowan University, USA</i>
[B.2.6.3]	Ecological monomers from vegetable oils used in paint industry B. Balanuca* ¹ , R. Stan ¹ , A. Hanganu ² , H. Iovu ¹ , ¹ <i>University Politehnica of Bucharest, Romania</i> , ² <i>Institute of Organic Chemistry "C.D. Nenitescu", Romania</i>
[B.2.6.4]	Formation of multiple emulsions using single amphiphilic block copolymers G.Q. Sun* ¹ , L.Z. Hong ² , T. Ngai ¹ , ¹ <i>The Chinese University of Hong Kong, Hong Kong</i> , ² <i>South China University of Technology, China</i>
[B.2.6.5]	Room Temperature Oil-based Quantum Dot Preparation K. Marbou ¹ , P. André* ¹ , ¹ <i>School of Physics and Astronomy (SUPA), University of St Andrews, UK</i> , ² <i>RIKEN Advanced Science Institute, Japan</i>
[B.2.6.6]	Effect of chemical etching of substrates on the properties of Sb₂S₃ thin films F. Aousgi*, M. Kanzari, <i>Ecole Nationale d'ingénieurs de Tunis, Tunisia</i>
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[B.2.7.1]	A new supramolecular POSS-porphyrin nanohybrid: Synthesis and spectroscopic characterization M.A. Castriciano* ¹ , A. Romeo ² , N. Leone ³ , S. Manickam ² , P. Cardiano ² , S. Lo Schiavo ² , ¹ <i>CNR-ISMN, Italy</i> , ² <i>University of Messina, Italy</i> , ³ <i>CNR-IPCF, Italy</i>
[B.2.7.2]	Self-assembly of L10-FePt nanoparticles/block copolymers magnetic ink to provide ultra-dense storage media B.B. Basly* ^{1,2} , G.G. Goglio ¹ , M.S. Mornet ¹ , F.G. Fleury ² , H.G. Hadziioannou ¹ , D.E. Duguet ¹ , ¹ <i>Institut de Chimie de la matière condensée de Bordeaux, France</i> , ² <i>Laboratoire de Chimie des Polymères Organiques, France</i>
[B.2.7.3]	Self-organization of highly ordered mosaic structure porous silicon in conditions of "soft" impact K.B. Tynyshtykbaev, <i>Institute Physics and Technology, Kazakhstan</i>
[B.2.7.4]	Magneto-electric composites prepared with the directed assembly of nanoparticles D. Lisjak* ¹ , P. Jenus ^{1,2} , M. Drofenik ^{1,3} , ¹ <i>Jozef Stefan Institute, Slovenia</i> , ² <i>Jozef Stefan International Postgraduate School, Slovenia</i> , ³ <i>Univeristy of Maribor, Slovenia</i>
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[B.2.8.2]	Synthesis and characterization of Polyimide/ORMOSIL/HPW hybrid membranes F.A.S. Ferreira*, U.P. Rodrigues-Filho, <i>Universidade de São Paulo, Brazil</i>

[B.2.8.3]	Metallosilicate and phosphosilicate hybrid materials prepared by non-hydrolytic sol-gel reactions J. Pinkas ^{*1} , A. Styskalik ¹ , D. Skoda ¹ , Z. Moravec ¹ , C.E. Barnes ² , ¹ Masaryk University, Czech Republic, ² University of Tennessee, USA
[B.2.8.4]	Hydro/organo hybrid gel materials based of bicontinuous microemulsions K. Sakata ^{*1} , S. Kawano ¹ , E. Kuraya ^{1,2} , S. Uemura ¹ , M. Kunitake ^{1,3} , ¹ Kumamoto University, Japan, ² Okinawa National College of Technology, Japan, ³ JST, Japan
[B.2.8.5]	Synthesis of functionalized ladder-like polysilsesquioxanes S.H. Jang, A.S. Lee, S.S. Choi, S.S. Hwang, K.Y. Baek [*] , Korea Institute of Science and Technology, Republic of Korea
[B.2.8.6]	Thermoresponsive shape-memory poly(butylene succinate) K. Paderni ^{*1} , M. Messori ¹ , M. Toselli ² , F. Pilati ¹ , ¹ University of Modena and Reggio Emilia, Italy, ² University of Bologna, Italy
[B.2.8.7]	Epoxy/titania hybrid material nanostructured obtained by joining non-hydrolytic sol-gel process and cationic polymerisation D. Morselli [*] , M. Messori, F. Bondioli, University of Modena and Reggio Emilia, Italy
[B.2.8.8]	Structural and dynamic properties of silica-reinforced rubbers obtained through sol-gel processes as investigated by solid-state NMR S. Borsacchi ^{*1,2} , U.P. Sudhakaran ¹ , M. Messori ^{2,3} , M. Geppi ^{1,2} , ¹ Università di Pisa, Italy, ² INSTM, Italy, ³ Università di Modena e Reggio Emilia, Italy
[B.2.8.9]	Shape-memory polymer networks from sol-gel cross-linked alkoxy silane-terminated poly(ϵ-caprolactone): A solid-state NMR study S. Borsacchi ^{*1,2} , K. Paderni ^{2,3} , M. Messori ^{2,3} , M. Toselli ^{2,4} , F. Pilati ^{2,3} , M. Geppi ^{1,2} , ¹ Università di Pisa, Italy, ² INSTM, Italy, ³ Università di Modena e Reggio Emilia, Italy, ⁴ Università di Bologna, Italy
[B.2.8.10]	Investigation of PVDF/silica sol-gel hybrids through solid-state NMR spectroscopy methods S. Borsacchi ^{1,2} , F. Martini ^{1,2} , E. Barchiesi ³ , R. Biancardi ³ , J. Abusleme ³ , M. Geppi ^{*1,2} , ¹ Università di Pisa, Italy, ² INSTM, Italy, ³ Solvay Specialty Polymers, Italy
[B.2.8.11]	Host-sensitized luminescence of Sm³⁺ ions doped in rutile SnO₂ sol-gel nanocrystals B.M. Morais Faustino [*] , P.J.S. Foot, R.A. Kresinski, T. Zhang, Kingston University London, UK
[B.2.8.12]	Photochromic hybrid thin film on PET flexible substrate R.P. Cruz, C. Molina [*] , Universidade Federal de São Paulo, Brazil
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[C.2.1.1]	Silicon nanowires embedded porous graphite anode materials for high energy density li-ion batteries S.K. Jeong [*] , S.J. Park, J.P. Cho, UNIST, Republic of Korea
[C.2.1.2]	Graphene oxide for hydrogen storage: Pillaring to chemical activation G. Srinivas [*] , Z.X. Guo, University College London, UK
[C.2.1.3]	Studies on surface modification of carbon black using eco-friendly materials A. Adhikary, LARSEN & TOUBRO, India
[C.2.1.4]	Microalgae used as a matrix for graphitized carbon structure A. Lisowska-Oleksiak [*] , A.P. Nowak, J. Lapinski, B. Wicikowska, Gdansk University of Technology, Poland
[C.2.1.5]	Nitrogen-doped carbon via hydrothermal carbonisation for the use in supercapacitors F. Schipper [*] , T.P. Fellingner, M. Antonietti, Max Planck Institute of Colloids and Interfaces, Germany
[C.2.1.6]	Disordered boron nitride - graphite composite for hydrogen storage M. Pentimalli ^{*1} , C. Milanese ² , F. Padella ¹ , ¹ ENEA, Italy, ² University of Pavia, Italy
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[C.2.2.1]	Graphitic metal ion-containing polyanionic carbon nitrides: A class of intrinsic semiconductor-salt hybrids D. Dontsova [*] , T.P. Fellingner, M. Antonietti, Max Planck Institute of Colloids and Interfaces, Germany
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[C.2.3.1]	Nanocasting - A versatile tool for preparing hierarchically porous metal and metal oxide monoliths J.H. Smått ^{*1} , F.M. Saylor ² , A.J. Grano ² , M.G. Bakker ² , ¹ Åbo Akademi University, Finland, ² The University of Alabama, USA
[C.2.3.2]	Hierarchic porous structure composed of oxide semiconductor nanoparticles stabilized with amphiphilic copolymers containing catechol groups Y.S. Saito ^{*1} , H.Y. Yabu ² , M.S. Shimomura ^{2,3} , ¹ Graduate School of Engineering, Tohoku University, Japan, ² IMRAM, Tohoku University, Japan, ³ WPI-AIMR, Tohoku University, Japan
[C.2.3.3]	Controlled graphitization of microporous carbon terminated with graphene walls by sputtering process for energy-related applications A.N. Banerjee [*] , S.W. Joo, B.K. Min, Yeungnam University, Republic of Korea
[C.2.3.4]	Conversion of glass pore walls into MTS via pore-protected transformation C. Kuester [*] , P. With, R. Glaeser, D. Enke, University Leipzig, Germany
[C.2.3.5]	Hierarchically porous foams as novel photoanodes for dye-sensitized solar cells C.M. Leroy ^{*1} , C. Olivier ² , T. Toupance ² , L. Hirsch ³ , S. Ravaine ¹ , R. Backov ¹ , ¹ Centre de Recherche Paul Pascal, France, ² University of Bordeaux, Institut des Sciences Moléculaires, France, ³ University of Bordeaux, Laboratoire de l'Intégration du Matériau au Système, France
[C.2.3.6]	Three-dimensional hierarchically ordered porous carbon for high-rate supercapacitors with high energy and power densities T.C. Chou, C.H. Huang, R.A. Doong [*] , National Tsing Hua University, Taiwan
[C.2.3.7]	Freezing induced self assembly - A new route to hierarchical mesoporous alumina I. Amirouche, M. Klotz [*] , C. Viazzi, S. Deville, C. Guizard, CNRS, France
SYMP. C - Macrocellular solids	
[C.2.4.1]	Controlling grain orientation and functional properties in ceramic materials : An ice-assisted process

	F. Bouville ^{*1,2} , S. Deville ¹ , E. Maire ² , A.J. Stevenson ¹ , C. Guizard ¹ , ¹ Laboratoire de Synthèse et de Fonctionalisation des Céramiques, France, ² INSA-Lyon MATEIS, France
	SYMP. C - Membranes
[C.2.5.1]	Nanosheets composed porous silica film for gene transfection Q. Ji*, T. Yamazaki, N. Hanagata, J.P. Hill, K. Ariga, <i>National Institute for Materials Science, Japan</i>
[C.2.5.2]	Self-cleaning polymer membrane surfaces A. Schulze*, A. Stoelzer, S. Starke, I. Thomas, M. Went, <i>Leibniz Institute of Surface Modification, Germany</i>
[C.2.5.3]	Hybrid ionic liquid/ceramic membranes for CO₂ separation O.C. Vangeli ¹ , X.L. Papatryfon ² , O.I. Tzialla ² , K.A. Labropoulos ¹ , G. Beltsios ² , G.E. Romanos ^{*1} , ¹ National Center for Scientific Research "Demokritos", Greece, ² University of Ioannina, Greece
[C.2.5.4]	Synthesis and properties of samaria-doped ceria electrolyte via ultrasound-microwave assisted sol-gel method Y.F. Bu*, D.D. Xu, R.J. Zhou, Y. Song, Q. Zhong, <i>Nanjing University of Science and Technology, China</i>
[C.2.5.5]	Generic method for inorganic porous hollow fiber preparation with shrinkage-controlled small radial dimensions M.W.J. Luiten-Olieman ^{*1} , M.J.T. Raaijmakers ¹ , L. Winnubst ¹ , M. Wessling ² , A. Nijmeijer ¹ , N.E. Benes ¹ , ¹ University of Twente, The Netherlands, ² RWTH Aachen University, Germany
	SYMP. C - Mesoporous materials
[C.2.6.1]	Incorporation of new functionalities on (E)-ethenylene-bridged PMO through Diels-Alder reactions D. Esquivel ^{*1} , E. De Canck ¹ , P. Van Der Voort ¹ , C. Jiménez-Sanchidrián ² , F.J. Romero-Salguero ² , ¹ Ghent University, Belgium, ² University of Córdoba, Spain
[C.2.6.2]	Preparation of KIT-6 mesoporous silica via the partitioned cooperative self-assembly process W. Wang*, W.J. Shan, R. Qi, H.Q. Ru, <i>Northeastern University, China</i>
[C.2.6.3]	Optimization of the structural and physicochemical properties of mesoporous silica nanoparticles for biomedical applications M. Varache, I. Bezverkhy, L. Saviot, F. Baras, F. Bouyer*, <i>Laboratoire Interdisciplinaire Carnot de Bourgogne, France</i>
[C.2.6.4]	Hydrogenation of cinnamaldehyde over Co/SBA-15 catalysts prepared by different methods B. Dragoi ^{*1} , A. Ungureanu ¹ , A. Chiriac ¹ , C. Ciotonea ¹ , S. Royer ² , D. Duprez ² , ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, ² Université de Poitiers, France
[C.2.6.5]	Copper nanoparticles supported on ordered mesoporous SBA-15 silica as effective catalysts for the selective hydrogenation of cinnamaldehyde A. Ungureanu ^{*1} , B. Dragoi ¹ , A. Chiriac ¹ , C. Ciotonea ¹ , C. Rudolf ¹ , S. Royer ² , ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, ² Université de Poitiers, France
[C.2.6.6]	The synergistic effects in the bimetallic Ni-Cu nanoparticles supported on SBA-15 E. Dumitriu ^{*1} , A. Ungureanu ¹ , B. Dragoi ¹ , C. Ciotonea ¹ , C. Rudolf ¹ , A. Chiriac ¹ , ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, ² Université de Poitiers, France
[C.2.6.7]	New functional periodic mesoporous benzene-silicas M.A.O. Lourenço*, R. Siegel, M. Sardo, L. Mafra, P. Ferreira, <i>Aveiro University, Portugal</i>
[C.2.6.8]	SEM, AFM, and TEM analysis of the structure of functionalized xerogels Y.L. Zub, <i>National Academy of Sciences of Ukraine, Ukraine</i>
[C.2.6.9]	CO₂ adsorption over Hexagonal Mesoporous Silica (HMS) materials functionalized with amino groups R. Sanz*, G. Calleja, A. Arencibia, E.S. Sanz-Pérez, <i>Universidad Rey Juan Carlos, Spain</i>
[C.2.6.10]	Influence of impregnation methods and acid dopants on electrical properties of PANI/SBA-15 composites D. Takamori ¹ , C. Rubinger ² , T. Martins ¹ , R. Faez ^{*3,1} , ¹ Federal University of São Paulo, Brazil, ² Federal University of Itajubá, Brazil, ³ Federal University of São Carlos, Brazil
[C.2.6.11]	Titanium phosphonate porous materials formed from rigid organic precursors A. Lemeune ^{*1} , N. Makukhin ^{1,3} , S. Brandès ¹ , N. Gulyukina ^{2,3} , I. Beletskaya ^{2,3} , R. Guillard ¹ , ¹ Institut de Chimie Moléculaire de l'Université de Bourgogne, France, ² RAS, Russia, ³ Lomonosov Moscow State University, Russia
[C.2.6.12]	Mechanical properties of human-bone mimetic hybridized titanium structures B. Lee ^{*1} , Y. Lee ² , D.J. Lee ¹ , S.H. Oh ¹ , H.S. Kim ¹ , C.S. Lee ^{1,2} , ¹ Department of Materials science and Engineering, POSTECH, Republic of Korea, ² Graduate Institute of Ferrous Technology, POSTECH, Republic of Korea
[C.2.6.13]	Synthesis of ordered mesoporous ceria using MCM-48 as template C. Deeprasertkul*, S. Wongkasemjit, T. Chaisuwan, <i>Chulalongkorn University, Thailand</i>
[C.2.6.14]	Catalytic activity of palladium metal loaded MCM-48 K. Budmuang*, S. Wongkasemjit, A. Luengnaruemitchai, T. Chaisuwan, <i>Chulalongkorn University, Thailand</i>
[C.2.6.15]	Synthesis of TUD-1 using silatrane as a precursor via sol-gel technique and its application S. Hopetrungruang*, S. Wongkasemjit, T. Chaisuwan, A. Luengnaruemitchai, <i>The Petroleum and Petrochemical College Chulalongkorn University, Thailand</i>
[C.2.6.16]	Mesoporous materials for energy storage and production E. Tolu ¹ , S. Garroni ^{*1} , E. Masolo ¹ , E. Pellicer ² , J. Sort ² , M.D. Barò ¹ , ¹ University of Sassari, Italy, ² Universitat Autònoma de Barcelona, Spain
	SYMP. C - MOFs
[C.2.7.1]	Synthesis, structural characterization and magnetic properties of cobalt(II) phosphonate complexes M. Wilk ^{*1} , J. Janczak ² , V. Videnova-Adrabinska ¹ , ¹ Wrocław University of Technology, Poland, ² Polish Academy of Sciences, Poland
[C.2.7.2]	Synthetic, structural and applications mapping of metal phosphonate inorganic-organic hybrid materials Z. Anagnostou*, A. Panera, K.D. Demadis, <i>University of Crete, Greece</i>

[C.2.7.3]	Core-shell and hollow structures of metal-organic frameworks H.J. Lee*, S. Choi, W. Cho, M. Oh, <i>Yonsei University, Republic of Korea</i>
[C.2.7.4]	Heterobimetallic MOFs for catalytic applications E. S. Larrea* ¹ , M. Iglesias ² , M.I. Arriortua ¹ , ¹ Universidad del País Vasco, Spain, ² Consejo Superior de Investigaciones Científicas, Spain
[C.2.7.5]	Metalloporphyrin-based MOFs: First cobalt based TPPS-bipy coordination network A. Fidalgo-Marijuan, G. Barandika, B. Bazán, M.K. Urriaga, M.I. Arriortua*, <i>Universidad del País Vasco, Spain</i>
[C.2.7.6]	Modelling the effect of linker substituents on reactions in MOFs M. Vandichel*, M. Waroquier, V. Van Speybroeck, <i>Ghent University, Belgium</i>
[C.2.7.7]	Calcium-carboxyphosphonate/polycarboxylate inorganic-organic hybrid materials from demineralization of calcitic biomineral surfaces Z. Anagnostou*, K.D. Demadis, <i>University of Crete, Greece</i>
[C.2.7.8]	A novel series of isoreticular metal organic frameworks: Realizing metastable structures by liquid phase epitaxy J. Liu* ¹ , B. Lukose ² , S. Bräse ¹ , K. Müllen ⁵ , T. Heine ² , C. Wöll ¹ , ¹ Karlsruhe Institute of Technology, Germany, ² Jacobs-University Bremen, Germany, ³ King Abdullah University of Science and Technology, Saudi Arabia, ⁴ Bielefeld University, Germany, ⁵ Max-Planck-Institut für Polymerforschung, Germany
SYMP. C - Other	
[C.2.8.1]	Polyorganosiloxane aerogels with no need for supercritical drying K. Kanamori*, G. Hayase, T. Shimizu, H. Shigeno, K. Nakanishi, <i>Kyoto University, Japan</i>
[C.2.8.2]	Kinetic study of sol-gel polymerization of silica nanoporous gel F. Pashaei*, M. kokabi, A.R. Bahramian, <i>Tarbiat Modares University, Iran</i>
[C.2.8.3]	Synthesis of porous hybrid materials with high surface area by imine formation between octasilsesquioxane and organic linkers T.I. Iida*, K.J. Jinno, W.C. Chaikittisilp, T.O. Okubo, A.S. Shimojima, <i>The University of Tokyo, Japan</i>
SYMP. C - Zeolites	
[C.2.9.1]	Effects of graphene on the morphology of titanium silicalite-1 P. Gebhardt* ¹ , S.W. Pattinson ² , D.J. Cooke ³ , J. Elliott ² , D. Eder ¹ , ¹ Westfälische Wilhelms-Universität Münster, Germany, ² University of Cambridge, UK, ³ University of Huddersfield, UK
[C.2.9.2]	Isomerization of alpha-pinene oxide over Fe and Sn modified zeolite catalysts N. Kumar* ¹ , P. Mäki-Arvela ¹ , J.P. Mikkola ^{1,2} , T. Salmi ¹ , D. Murzin ¹ , ¹ Åbo Akademi University, Finland, ² Umeå University, Sweden
[C.2.9.3]	Synthesis of natural Zeolite clinoptilolite-encapsulated Pb and PbSe J.L. Almaral-Sanchez* ¹ , J. Flores-Valenzuela ¹ , M. Fillores-Acosta ² , J.J. Campos-Gaxiola ¹ , A. Cruz-Enriquez ¹ , S.P. Arredondo Rea ¹ , R. Corral-Higuera ¹ , ¹ Universidad Autónoma de Sinaloa, Mexico, ² Universidad de Sonora, Mexico
[C.2.9.4]	Ferromagnetism in electride C12A7 N. Wada*, N. Nakamura, K. Tsubaki, <i>Toyo University, Japan</i>
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SYMP. A - Biocatalysts	
[A.3.1.1]	Structure/hydrophobicity/catalytic activity relationships for effective biocatalysts of baeyer-Villiger oxidation of ketones K. Szymanska ¹ , A. Drozd ² , A. Chrobok ² , S. Baj ² , A.B. Jarzebski ^{1,3} , J. Mrowiec-Bialon* ^{1,3} , ¹ Departament of Chemical Engineering, Silesian University of Technology, Poland, ² Departament of Chemical Organic Technology and Petrochemistry, Silesian University of Technology, Poland, ³ Polish Academy of Sciences, Poland
[A.3.1.2]	Bioinspired direct regeneration of 1,4-NADH by carbon nitride photocatalysis J. Liu*, M. Antonietti, <i>Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Germany</i>
SYMP. A - Bioinspired materials	
[A.3.2.1]	Electrochemical deposition of PPY film on Ti substrate through self-polymerized dopamine thin layer S. Popescu* ^{1,2} , C. Pirvu ¹ , C. Ungureanu ¹ , ¹ University Politehnica of Bucharest, Romania, ² Petroleum – Gas University of Ploiești, Romania
[A.3.2.3]	Why condensate drops can spontaneously move away on some superhydrophobic surfaces but can not on others ? J. FENG* ¹ , Y.C. PANG ¹ , Z.Q. QIN ^{1,2} , S.H. YAO ^{1,2} , ¹ Zhejiang University of Technology, China, ² The Hong Kong University of Science and Technology, Hong Kong
[A.3.2.4]	Bioinspired multifunctional weft knitted auxetic structures D. Rant*, A. Pavko-Cuden, V. Bukosek, M. Gorenssek, <i>University of Ljubljana, Slovenia</i>
[A.3.2.5]	Glass micro-wire track for quiding kinesin-powered gliding movement of microtubules K. Kim* ¹ , A.L. Liao ^{1,2} , A. Sikora ¹ , D. Oliveira ¹ , M. Umetsu ^{1,3} , W. Teizer ^{1,4} , ¹ WPI-AIMR, Tohoku University, Japan, ² Materials Science and Engineering, Texas A&M University, USA, ³ Department of Biomolecular Engineering, Tohoku University, Japan, ⁴ Department of Physics and Astronomy, Texas A&M University, USA
[A.3.2.6]	Dihexadecyl phosphate Langmuir-Blodgett films tailor hydroxyapatite formation on titanium and stainless steel surfaces I.D. de Souza, M.A.E. Cruz, A.P. Ramos*, <i>University of São Paulo, Brazil</i>
[A.3.2.7]	Biomimetic single nanochannels Y. Tian*, L. Jiang, <i>Chinese Academy of Sciences, China</i>
[A.3.2.8]	Bio-inspired adhesive materials for cell-based cancer diagnostics S.T. Wang, <i>Chinese Academy of Sciences, China</i>
[A.3.2.9]	Obtention of chitosan hydrogels from <i>Aspergillus niger</i> micelium and their application in betahistine release studies H.F. Zuluaga* ¹ , G.A. Muñoz ¹ , C. Valencia ¹ , N. Valderruten ² , E. Ruiz ¹ , ¹ Universidad del Valle, Colombia, ² Universidad Icesi, Colombia

[A.3.2.10]	Employing locked nucleic acids for recognition-based colloidal assembly & disassembly V.T. Milam*, N.A. Eze, J.O. Hardin, <i>Georgia Institute of Technology, USA</i>
	SYMP. A - Biomimetic materials
[A.3.3.1]	Advanced coatings for medical implants T. Ciach*, B. Butruk, P. Zietek, M. Trzaskowski, <i>Warsaw University of Technology, Poland</i>
[A.3.3.2]	Alginate Microgels as Extracellular Matrix Mimic for Single-Cell Analysis S.U. Utech* ¹ , Y.Z. Zhang ¹ , A.M. Mao ² , D.J.M. Mooney ² , D.A.W. Weitz ¹ , ¹ <i>Department of Physics and School of Engineering and Applied Sciences, Harvard University, USA</i> , ² <i>Wyss Institute for Biologically Inspired Engineering, Harvard University, USA</i>
[A.3.3.3]	The structure and properties of silk fibroin in middle gland of silkworms Y. Jin*, Y.P. Zhang, Y.C. Hang, H.L. Shao, X.C. Hu, <i>Donghua University, China</i>
[A.3.3.4]	Studies on the structure changes of regenerated silk fibroin using synchrotron radiation small angle X-ray scatterin J. Luo*, Y.P. Zhang, H.L. Shao, X.C. Hu, <i>Donghua University, China</i>
[A.3.3.5]	Versatile functional materials via direct polymerization of bioinspired catechols D. Ruiz-Molina ¹ , J. Saiz-Poseu ² , M. Guardingo* ¹ , J. Sedo ¹ , B. Garcia ² , J. Hernando ³ , ¹ <i>CSIC, Spain</i> , ² <i>ASCAMM, Spain</i> , ³ <i>UAB, Spain</i>
	SYMP. A - Biomineralisation
[A.3.4.1]	Protein Engineering for assembling inorganic nanomaterials M. Umetsu*, T. Hattori, T. Togashi, I. Kumagai, <i>Tohoku University, Japan</i>
[A.3.4.2]	Modeling the "silicon pools" in diatoms: Stabilization of soluble silica species by charged of neutral oligomers and polymers K. Pachis ¹ , M. Preari ¹ , K. Spinde ² , E. Brunner ² , K.D. Demadis* ¹ , ¹ <i>University of Crete, Greece</i> , ² <i>Technische Universität Dresden, Germany</i>
[A.3.4.3]	Silicatein-like behaviour of silk sericin during biomimetic synthesis of silica H. Oh, K.H. Lee*, <i>Seoul National University, Republic of Korea</i>
	SYMP. A - Bionanocomposites
[A.3.5.1]	Aerogel from eggshell for artificial bone K. Chaikul* ¹ , S. Wongkasemjit ¹ , T. Chaisuwan ¹ , D. Schiradi ² , ¹ <i>Chulalongkorn University, Thailand</i> , ² <i>Case Western Reserve University, USA</i>
[A.3.5.2]	Synthesis of hydroxyapatite in mesoporous silica for ciprofloxacin release: in vitro cell viability and cytocompatibility studies G.F. Andrade ¹ , V.S. Gomide ¹ , A.C. Silva ² , A.M. Goes ³ , E.M.B. Sousa* ¹ , ¹ <i>SENAN, Brazil</i> , ² <i>Faculdade de Farmácia – UFMG, Brazil</i> , ³ <i>Instituto de Ciências Biológicas – UFMG, Brazil</i>
[A.3.5.3]	Synthesis and characterization of BaTiO₃:Co⁺² nanoparticles incorporated in a hybrid matrix composed of chitosan and pluronic F127 S. Fuentes* ^{1,2} , J. Dubó ¹ , E. Veloso ¹ , N. Barraza ¹ , ¹ <i>Universidad Católica del Norte, Chile</i> , ² <i>CE DENNA, Chile</i>
[A.3.5.4]	Glucose oxidase (GOx) microencapsulated pva nanofibrous mat as antimicrobial wound dressing A.G. Destaye*, C.K. Lee, <i>National Taiwan University of Science and Technology, Taiwan</i>
[A.3.5.5]	Cellular dynamics on nano-/microengineered 3D topographic hybrid surfaces for biomedical applications R. Palankar*, M. Medvidov, M. Delcea, <i>Ernst-Moritz-Arndt-Universität Greifswald, Germany</i>
[A.3.5.6]	Magnetic nanoCube Preparation for Hybrid Organic-Inorganic Magneto-Polymers R. Turnbull ¹ , I. Birced ¹ , D. Mayoh ¹ , E. Wright* ¹ , Z. Wang ² , A. Brown ² , S.I. Brown ² , A. Cuschieri ² , G.J. Florence ¹ , P. André ¹ , ¹ <i>University of St Andrews, UK</i> , ² <i>University of Dundee, UK</i>
[A.3.5.7]	Silk fibroin biopolymer films as efficient hosts for dfb laser and random laser operation S.J.L. Ribeiro* ¹ , R.R. Silva ¹ , C.T. Dominguez ² , M.V. Santos ¹ , R.B. Silva ³ , M. Cavicchioli ¹ , ¹ <i>São Paulo State University, Brazil</i> , ² <i>Departamento de Física Universidade Federal de Pernambuco, Brazil</i> , ³ <i>Programa de Pós-Graduação em Ciência de Materiais Universidade Federal de Pernambuco, Brazil</i> , ⁴ <i>Laboratório de Óptica Biomédica e Imagem Universidade Federal de Pernambuco, Brazil</i>
	SYMP. A - Biosensors
[A.3.7.1]	Electrochemical characteristic of biotinyl somatostatin-14/naion modified gold electrode in development of biosensor for determination of Hg(II) N.A. Yusof*, S.M. M.Nor, N. M.Daud, <i>Universiti Putra Malaysia, Malaysia</i>
[A.3.7.2]	Nano/micro-patterned surfaces for biomedical applications M. Medvidov*, R. Palankar, M. Delcea, <i>Ernst-Moritz-Arndt-Universität Greifswald, Germany</i>
[A.3.7.3]	Self-regulating adaptively reconfigurable polymeric systems and the application in biomolecule catch and release X. He*, A. Shastri, L. McGregor, Y. Vasquez, M. Aizenberg, J. Aizenberg, <i>Harvard University, USA</i>
[A.3.7.4]	Electrical behavior of escherichia coli cells as biological reporters on capacitive sensor activated with CNTs A. Qureshi ¹ , Y. Gurbuz ² , J.H. Niazi* ¹ , ¹ <i>Sabancı University Nanotechnology Research and Application Center, Turkey</i> , ² <i>Faculty of Engineering and Natural Sciences, Sabancı University, Turkey</i>
[A.3.7.5]	SERS-active probes for Raman-based detection of biomolecules inside living cells A. Masic* ¹ , A. Yashchenok ¹ , D. Gorin ² , B.E. Pinchasik ¹ , N. Kotov ³ , H. Möhwald ¹ , ¹ <i>Max Planck Institute of Colloids and Interfaces, Germany</i> , ² <i>Saratov State University, Russia</i> , ³ <i>University of Michigan, USA</i>
[A.3.7.6]	Fuel cell using collagen biopolymer electrolyte Y. Matsuo*, J. Hatori, H. Oyama, <i>Setsunan University, Japan</i>
[A.3.7.7]	Selective fluorescent probe system for amino acid S.H. Son*, D. Kim, G. Jang, J. Noh, J. Kim, T.S. Lee, <i>Chungnam National University, Republic of Korea</i>
[A.3.7.8]	Development of multifunctional biointerfaces for sensing and remediation J. Kirsch, B. Chin, A. Simonian*, <i>Auburn University, USA</i>
	SYMP. A - Biotemplates
[A.3.8.1]	Silica/pTMSPMA sol-gel hybrid scaffolds produced by indirect additive manufacturing

	A.L.B. Maçon*, G. Poologasundarampillai, J.R. Jones, <i>Imperial College London, UK</i>
	SYMP. A - Drug delivery
[A.3.9.1]	Theophylline release modulation using pectin-based hybrid beads A. Assifaoui ¹ , F. Bouyer* ² , P. Cayot ¹ , O. Chamblin ¹ , ¹ <i>School of Pharmacy, University of Burgundy, France</i> , ² <i>ICB Laboratory, University of Burgundy, France</i>
[A.3.9.2]	Mathematical modeling and simulation of magnetic nano-particles trajectories in a drug targeting system G. Valizadeh* ¹ , F. Fatemi ¹ , S. Hatamie ¹ , M. Shahabadi ^{1,2} , M.A. Oghabian ¹ , ¹ <i>Tehran University of Medical Science, Iran</i> , ² <i>University of Tehran, Iran</i>
[A.3.9.3]	Design and Fabrication Of An Electromagnets Array, For Magnetic Drug Targeting System Under Blood Flow F. Fatemi* ¹ , G. Valizadeh ¹ , S. Hatamie ¹ , M. Shahabadi ¹ , M.A. Oghabian ¹ , ¹ <i>Tehran University of Medical Science, Iran</i> , ² <i>University of Tehran college of engineering, Tehran, Iran</i>
[A.3.9.4]	Double edged sword –designing gold nanorods functionalized with KDR- binding peptides for effective blocking of angiogenesis and photothermal therapy N. Shoba* ¹ , K. Saravanan ¹ , C. Anju ² , ¹ <i>Indian Institute of Technology Madras, India</i> , ² <i>Indian Institute of Technology Madras, India</i>
[A.3.9.5]	Are The Polypyrrole-Indomethacin Copolymer Prodrugs Able To Decrease Cyclooxygenases Activity? J. Serra Moreno* ¹ , D. Agas ^{1,2} , F. Trivarelli ¹ , M.G. Sabbieti ² , M.A. Loreto ^{1,3} , S. Panero ¹ , ¹ <i>Sapienza University of Rome, Chemistry Department, Italy</i> , ² <i>University of Camerino, School of Biosciences and Biotechnology, Italy</i> , ³ <i>Sapienza University of Rome, Istituto di Chimica Biomolecolare, Italy</i>
[A.3.9.6]	From powder to macroporous phosphocalcic spherical granules with biological functionalization J.C. Hornez*, F. Bouchart, A. Leriche, <i>Université de Valenciennes et du Hainaut, France</i>
[A.3.9.7]	Synthesis and characterization of a nanogel-nanometal system for combined dual responsive delivery and photothermal therapy D. Subhash*, D. Bahadur, R. Srivastava, <i>Indian Institute of Technology, Bombay, India</i>
[A.3.9.8]	Multifunctional fluorescent superparamagnetic iron oxide loaded gemcitabine PLGA nanospheres for treatment of Pancreatic cancer L.R. Jaidev*, K. UmaMaheswari, S. Swaminathan, <i>SASTRA University, Thanjavur, India</i>
[A.3.9.9]	Imidazolium-based nanogels for drug delivery M. Rodrigues* ^{1,2} , A. Calpena ^{2,3} , D.B. Amabilino ⁴ , M.L. Pérez-García ^{1,2} , ¹ <i>Departament de Farmacologia i Química Terapèutica, Universitat de Barcelona, Spain</i> , ² <i>Institut de Nanociència i Nanotecnologia UB, Spain</i> , ³ <i>Departament de Farmàcia i Tecnologia Farmacèutica, Universitat de Barcelona, Spain</i> , ⁴ <i>Institut de Ciència de Materials de Barcelona, Spain</i>
[A.3.9.10]	Interactions of salicylic acid and its derivatives with calcite crystals of different morphologies M. Ukrainczyk*, M. Gredicak, I. Jeric, D. Kralj, <i>Rudjer Boskovic Institute, Zagreb, Croatia</i>
[A.3.9.11]	Ph/o₂-responsive nanovalves: The effect of different types of mesoporous silica nanoparticles and gates on the controlled release of doxorubicin in solution and in vitro G.Q. Silveira ¹ , R.S. da Silva ² , L. Franco ² , M.D. Vargas* ¹ , C.M. Ronconi ¹ , ¹ <i>Universidade Federal Fluminense, Brazil</i> , ² <i>Universidade de São Paulo, Brazil</i>
[A.3.9.12]	Magnetite/silicone nanocomposite microspheres for drug delivery applications B.A. Evans*, J.C. Ronecker, A.E. Deatsch, <i>Elon University, USA</i>
[A.3.9.13]	MCM-41 silica nanoparticles functionalized with aptamer and radiolabeled with ⁹⁰Y as new therapeutic agent for colorectal cancer C.A. Ferreira*, E.M.B. de Sousa, <i>CDTN, Brazil</i>
	SYMP. A - Green materials
[A.3.10.1]	PLA- Mg/Al hydrocalcite films for food packaging applications M. Monti*, M.R. Contardi, M.T. Scrivani, A. Casale, <i>Proplast Consortium, Italy</i>
[A.3.10.2]	Sustainable building blocks for hybrid materials D. Esposito*, S. Kirchhecker, M. Antonietti, <i>MPI of Colloids and Interfaces, Germany</i>
[A.3.10.3]	Modification of the structure and the functional properties of the biodegradable films based on starch by radiation treatment and addition of lipids/surfactants K. Ciesla*, A. Nowicki, M. Buczkowski, B. Sartowska, K. Lyczko, <i>Institute of Nuclear Chemistry and Technology, Poland</i>
[A.3.10.4]	Synthesis and application of epoxy resin modified with lignin derivatives G. Komiya* ^{1,3} , A. Happoya ¹ , T. Mizuide ¹ , H. Sagae ² , A. Takahashi ³ , ¹ <i>Toshiba Corporation, Japan</i> , ² <i>Meiko Electronics, Co. Ltd, Japan</i> , ³ <i>Yokohama National University, Japan</i>
	SYMP. A - Nanomedicine
[A.3.12.1]	Multifunctional SiO₂-magnetic nanoparticles/P(N-IPAAm) system: Potential Applications in Magnetic Hyperthermia for cancer treatment A. Sousa ^{1,2} , K.C. Souza ¹ , E.M.B. Sousa ¹ , R.G. Sousa* ² , ¹ <i>SENAN – Centro de Desenvolvimento da Tecnologia Nuclear - CDTN/CNEN, Brazil</i> , ² <i>Departamento de Engenharia Química, Universidade Federal de Minas Gerais, Belo Horizonte, MG, Brazil</i>
[A.3.12.2]	Synthesis and characterization of silicon nanoparticles N. Licciardello* ^{1,2} , C.W. Hsu ^{1,2} , L. De Cola ^{1,2} , ¹ <i>Université de Strasbourg, France</i> , ² <i>Karlsruher Institut für Technologie, Germany</i>
[A.3.12.3]	Cell delivery and fluorescence imaging of luminescent polyoxometalate-based conjugates M. Carraro* ^{1,2} , G. Modugno ¹ , E. Fabbretti ³ , M. Bonchio ^{1,2} , ¹ <i>University of Padova, Italy</i> , ² <i>CNR, Italy</i> , ³ <i>University of Nova Gorica, Slovenia</i>
[A.3.12.4]	Application of graphene oxide and graphene for muscle tissue engineering S. Ahadian* ¹ , A. Khademhosseini ¹ , ¹ <i>Tohoku University, Japan</i> , ² <i>Harvard University, USA</i>
[A.3.12.5]	Preparation of polyion complex micelles incorporating titanium dioxide nanoparticles in the core for sonodynamic therapy A. Harada*, M. Ono, E. Yuba, K. Kono, <i>Osaka Prefecture University, Japan</i>
[A.3.12.6]	Intracellular environment-responsive stabilization of nanocapsules prepared from head-tail type polycations A. Harada*, S. Ichimura, R. Matsuki, E. Yuba, K. Kono, <i>Osaka Prefecture University, Japan</i>

[A.3.12.7]	Mitochondrial activity of mouse fibroblasts in in vitro tests dependence on length of functionalized carbon nanotubes M. Jedrzejczak ^{*1} , A. Dybus ¹ , M. Jedrzejczak ¹ , K. Cendrowski ^{1,2} , R.J. Kalenczuk ^{1,2} , E. Mijowska ^{1,2} , ¹ West Pomeranian University of Technology, Faculty of Biotechnology and Animal Science, Poland, ² West Pomeranian University of Technology, Center of Knowledge Based Nanomaterials and Technologies, Poland
[A.3.12.8]	preparation and synthesise of functionalized multiwall carbon nanotubes with folate, iron and PEG as multi targeting delivery of anticancer drug P. Ebrahimnejad, Mazandaran University of Medical Sciences, Iran
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[A.3.13.1]	Depth of cure of resin-based dental composites by raman spectroscopy and ISO 4049 method Z. Okulus*, T. Buchwald, M. Szybowicz, A. Voelkel, Poznań University of Technology, Poland
[A.3.13.2]	Neutral polyfluorene zwitterionic phospholipid complexes from solution to sol-gel matrix R. Vázquez-Guilló*, Z. Kahveci, M.J. Martínez-Tomé, C.R. Mateo, R. Mallavia, Universidad Miguel Hernandez de Elche, Spain
[A.3.13.3]	Electron-beam-derived polymeric macroporous scaffolds for biotechnological applications S. Reichelt*, C. Abe, M. Kühnert, C. Elsner, Leibniz Institute of Surface Modification, Germany
[A.3.13.4]	Multifunction ligands and their application in coordination, ionic complexes and sulfur removal N. buttrus, University of Mosul, Iraq
[A.3.13.5]	Polyaniline-siloxane composites: Synthesis and characterization K. Depa ^{*1} , A. Strachota ¹ , J. Stejskal ¹ , P. Bober ¹ , ¹ Academy of Sciences of the Czech Republic, Czech Republic, ² Charles University in Prague, Czech Republic
[A.3.13.6]	Generic method for inorganic porous hollow fiber preparation with shrinkage-controlled small radial dimensions M.W.J. Luiten-Olieman ^{*1} , M.J.T. Raaijmakers ¹ , L. Winnubst ¹ , M. Wessling ² , A. Nijmeijer ¹ , N.E. Benes ¹ , ¹ University of Twente, The Netherlands, ² RWTH Aachen University, Germany
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[A.3.14.1]	Evaluation of anti-adhesion property of chitosan-based blend nanofibers O.H. Kwon ^{*1} , S.J. Kim ¹ , J.E. Ko ¹ , W.I. Kim ^{1,2} , ¹ Kumoh National Institute of Technology, Republic of Korea, ² Wonbiogen, Ltd., Republic of Korea
[A.3.14.2]	Controlled facile green synthesis of small size starch-capped maltose-Reduced silver nanoparticles O.S. Oluwafemi*, V. Ncapayi, A. Gura, S.P. Songca, Walter Sisulu University, South Africa
[A.3.14.3]	Bespoke synthetic polymers for sol-gel hybrids for tissue engineering L.S. Connell*, J.V.M. Weaver, J.R. Jones, Imperial College London, UK
[A.3.14.4]	Hydrogen bonding interactions, morphology and nonisothermal crystallization kinetics of biodegradable cellulose/polycaprolactone blend films regenerated from an ionic liquid R. Xiong*, N. Hameed, Q. Guo, Deakin University, Australia
[A.3.14.5]	Design of chitosan-based coatings for drug release F. Cugia ^{*1} , L. Altomare ^{2,3} , L. De Nardo ² , A. Cigada ² , M.F. Casula ¹ , ¹ University of Cagliari, Italy, ² Politecnico di Milano, Italy, ³ NanoSurfaces srl, Italy
[A.3.14.6]	Templated preparation of hydroxyapatite nanoparticles from anionic polysaccharide nanogels Y. Sasaki ^{*1} , S. Yamane ² , S. Sawada ^{1,3} , K. Akiyoshi ^{1,3} , ¹ Kyoto University, Japan, ² Numazu National College of Technology, Japan, ³ Japan Science and Technology Agency, Japan
SYMP. B - Applications	
[B.3.1.1]	Triphenylene based discoidal materials: Synthesis, self-assembly and their photophysical behaviour H. Singh ^{*1} , M. Kumar ¹ , ¹ Guru Nanak Dev University, India, ² Guru Nanak Dev University, India
[B.3.1.2]	Enhancing Filtering and Potabilization Processes For Mexican City Potable Water Using Nanoscience and Nanoparticles A. Garcia-Quiroz*, E. Lopez-Chavez, R. Muñoz-Vega, L.N. Jeronimo-Guerrero, Universidad Autonoma de la Ciudad de Mexico, Mexico
[B.3.1.3]	Electrical and optical properties of n-ZnO/p-Si and n-ZnO/p-GaN heterojunctions formed by ultra-high vacuum sputter E.K. Kim ^{*1} , S.G. Cho ¹ , D.U. Lee ¹ , W.J. Choi ² , I.K. Han ² , ¹ Hanyang University, Republic of Korea, ² Korea Institute of Science and Technology, Republic of Korea
[B.3.1.4]	Study on the efficiency improvement of solar cells by using quantum dots for down conversion J.S. Park ¹ , H.D. Ko ¹ , I.K. Han ^{*1} , E.K. Kim ² , ¹ Korea Institute of Science and Technology, Republic of Korea, ² Hanyang University, Republic of Korea
[B.3.1.5]	PMMA-[Tb₂(dcpz)₂(suc)] organic inorganic hybrids M.G. Lahoud*, F.E. Maturi, R.M. Sábio, S.J.L. Ribeiro, M.R. Davolos, R.C.G. Frem, University Estadual Paulista, Brazil
[B.3.1.6]	Development of nano-DETECHIP® small molecule detection assays using dip-pen nanolithography and nanostructures S.M. Sikich*, A.E. Holmes, Doane College, USA
[B.3.1.7]	Improving non-woven polyamide networks through nanoparticles M. Brugnara ¹ , A. Dorigato ² , L. Fambri ^{*2} , G. Giacomelli ³ , A. Pegoretti ² , ¹ UFI Innovation Center s.r.l., Italy, ² University of Trento, Italy, ³ Aquafil s.p.a., Italy
[B.3.1.8]	Concentration-dependence of magnetic hyperthermia in a homogeneous magnetite-silicone nanocomposite A.E. Deatsch*, B.A. Evans, Elon University, USA
[B.3.1.9]	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems K.E. Papathanasiou*, N. Stavgianoudaki, K.D. Demadis, University of Crete, Greece
[B.3.1.10]	White light emitting electro-spun sheet of poly(ethylene oxide) containing hyperbranched conjugated polymer J. Kim*, T.S. Lee, Chungnam National University, Republic of Korea
[B.3.1.11]	Uptake of aromatic compounds from aqueous solution by montmorillonite modified with tetraphenylphosphonium

	T. Kameda*, S. Shimamori, T. Yoshioka, <i>Tohoku University, Japan</i>
	SYMP. B - Energy , environmental and structural hybrids
[B.3.2.1]	Adaptive and dynamic optical materials from microstructure-hydrogel hybrids: Towards energy-efficient next generation building materials P. Kim*, M. Kolle, M. Aizenberg, J. Alvarenga, M. Khan, J. Aizenberg, <i>Harvard University, USA</i>
[B.3.2.2]	Epitaxial synthesis and ultrafast carrier dynamics of CdSe/graphene hybrid composed of CdSe quantum dots Y.S. Ko*, Y.T. Kim, Y.U. Kwon, <i>Sungkyunkwan university, Republic of Korea</i>
[B.3.2.3]	Directed self-assembly of optically active organic and inorganic precursors into hybrid mesostructured photovoltaic films T. Segal-Peretz, M. Moshonov*, O. Nahor, G. Frey, <i>Technion, Israel</i>
[B.3.2.4]	Attrition-enhanced nanocomposite synthesis of high-efficiency thermoelectrics for large-scale sustainable energy conversion J. Eilertsen*, G. Saucke, M. Trottmann, S. Pokrant, A. Weidenkaff, <i>Solid State Chemistry and Catalysis, Switzerland</i>
[B.3.2.5]	Polymer mortars modified with recycled glass cullet A. Slosarczyk*, M. Mizerny, M. Osajda, <i>Poznan University of Technology, Poland</i>
[B.3.2.6]	ZnO nanostructured coatings on fabric substrates for photocatalytic applications M. Sucheai ^{1,4} , I.V. Tudose ^{1,3} , N. Vrinceanu ² , E. Koudoumas ^{1,4} , ¹ <i>Technological Educational Institute of Crete, Greece</i> , ² <i>"Al.I.Cuza" University from Iasi, Romania</i> , ³ <i>University of Bucharest, Romania</i> , ⁴ <i>Technological Educational Institute of Crete, Greece</i>
[B.3.2.7]	Functionalization of MCM-41 mesoporous silica with different amine groups for CO₂ capture T.C. dos Santos, A. Mbengue, C.M. Ronconi*, <i>Universidade Federal Fluminense, Brazil</i>
[B.3.2.8]	Syntheses of hybrid materials for biodiesel production A.L. de Lima ² , C.J.A. Mota ² , A. Mbengue ¹ , C.M. Ronconi*, ¹ <i>Universidade Federal Fluminense, Brazil</i> , ² <i>Universidade Federal do Rio de Janeiro, Brazil</i>
[B.3.2.9]	Design of nanocrystalline semiconductor-metal anisotropic heterostructures E. Conca*, M.R. Kim ² , M. Aresti ¹ , L. Manna ² , S. Bullita ¹ , A. Falqui ^{1,2} , ¹ <i>University of Cagliari, Italy</i> , ² <i>The Italian Institute of Technology, Italy</i>
[B.3.2.10]	Ship-in-a-bottle synthesis of tetrapyrrolic macrocycles in zeolites and mesoporous materials: photodegradation of model pollutants. M. Silva ^{1,2} , M.J.F. Calvete ¹ , M.E. Azenha ¹ , M.M. Pereira ¹ , H.D. Burrows ¹ , M. Sarakha ² , ¹ <i>Universidade de Coimbra, Portugal</i> , ² <i>Laboratoire de Photochimie Moléculaire et Macromoléculaire, UMR CNRS 6505, Université Blaise Pascal, France</i> , ³ <i>Instituto para a Biotecnologia e Bioengenharia, Centro para a Engenharia Biológica e Química, Instituto Superior Técnico – Universidade Técnica de Lisboa, Portugal</i>
[B.3.2.11]	Ship-in-a-bottle synthesis of tetrapyrrolic macrocycles in zeolites and mesoporous materials: Photodegradation of model pollutants M. Silva ^{1,2} , M.J.F. Calvete ¹ , H.D. Burrows ¹ , M. Sarakha ² , M.E. Azenha ¹ , M.M. Pereira ¹ , ¹ <i>Universidade de Coimbra, Portugal</i> , ² <i>Université Blaise Pascal, France</i> , ³ <i>Universidade Técnica de Lisboa, Portugal</i>
[B.3.2.12]	Exciton dissociation and charge transport enhancement in OPVs with quantum dot/N-CNT hybrid nanomaterials J.M. Lee*, H.I. Park, S.O. Kim, <i>KAIST, Republic of Korea</i>
[B.3.2.13]	Noble electrospun silica/polymer composite fibrous membrane composed of skin multicore-shell nanofibers S.M. Jo*, S.H. Lee, D.Y. Kim, <i>Korea Institute of Science and Technology, Republic of Korea</i>
[B.3.2.14]	Photocatalytic behaviors for the hybrid composites of titanium dioxide-long lasting phosphors J.S. Kim*, H.J. Sung, B.J. Kim, <i>The University of Seoul, Republic of Korea</i>
	SYMP. B - Functional hybrid nanoparticles and nanotubes
[B.3.3.1]	Enhancement of polymer mechanical properties by surfactant-assisted dispersion of nanoparticles M. Shtein*, R. Nadiv, O. Regev, <i>Ben-Gurion University of the Negev, Israel</i>
[B.3.3.2]	Multifunctional hybrid coating based on self-assembled organic-inorganic opal structures E. Emilritri*, S. Destri, L. Zulian, C. Botta, G. Scavia, <i>CNR, Italy</i>
[B.3.3.3]	Nanotube electrodes on modified ETFE films with grafted polymer layers for flexible electronics E. Emilritri*, S. Destri, G. Scavia, W. Mroz, <i>CNR, Italy</i>
[B.3.3.4]	Fabrication of highly transparent and flexible carbon nanostructures with controllable dimension at room temperature P. Ghosh*, T. Noda, Y. Hayashi, M. Tanemura, <i>Nagoya Institute of Technology, Japan</i>
[B.3.3.5]	A novel chelator of internal contamination radiostrontium Y.J. Xu ^{1,2} , X.G. Zai ¹ , B.X. Yang ¹ , ¹ <i>Medical College of Soochow University, China</i> , ² <i>Soochow University, China</i>
[B.3.3.6]	The pharmacokinetic evaluating of the novel chelator of internal contaminated radiostrontium Y.J. Xu ^{1,2} , M. Liu ^{1,2} , X.G. Zai ¹ , ¹ <i>Medical College of Soochow University, China</i> , ² <i>Soochow University, China</i>
[B.3.3.7]	2D and 3D self-assemblies of gold nanoparticles and polymers H. Tenhu*, L.T. Lee ² , ¹ <i>University of Helsinki, Finland</i> , ² <i>CEA, France</i>
[B.3.3.8]	Aerosol spray synthesis of non oxide ceramics particles V. Maurice*, M. Antonietti, C. Giordano, <i>MPIKG, Germany</i>
[B.3.3.9]	First principle study of electronics properties of Sb-doped SnO₂(110) surfaces A. Boumeddiene*, F. Bouamra ¹ , M. Rerat ² , H. Belkhir ³ , ¹ <i>Blida University, Algeria</i> , ² <i>Université de Pau et des Pays de l'Adour, France</i> , ³ <i>Badji Mokhtar University, Algeria</i>
[B.3.3.10]	Photoactive anatase TiO₂ nanocrystals shape controlled growth on SWCNTs R. Comparelli*, F. Petronella ^{1,2} , M. Striccoli ¹ , C. Mateo-Mateo ³ , R. Alvarez-Puebla ³ , M.A. Correa-Duarte ³ , ¹ <i>CNR, Italy</i> , ² <i>Università degli Studi di Bari, Italy</i> , ³ <i>Universidad de Vigo, Spain</i>
[B.3.3.11]	Mobile plasmonic photocatalyst: Synthesis, characterization and application N. Mahmed*, E. Haimi, S.P. Hannula, <i>Aalto University School of Chemical Technology, Finland</i>
[B.3.3.12]	Density functional study of structural, electronic and magnetic properties of small Rh_n (n=2 to 13) clusters F. Bouamra*, A. Boumeddiene ¹ , M. Rerat ² , H. Belkhir ³ , ¹ <i>Blida University, Algeria</i> , ² <i>Université de Pau et des Pays de l'Adour, France</i> , ³ <i>Badji</i>

	<i>Mokhtar University, Algeria</i>
[B.3.3.13]	Luminescent hybrids obtained by mesoporous silica doped with the new terbium complex R.M. Sábio* ¹ , M.G. Lahoud ¹ , J.M.A. Caiut ² , S.J.L. Ribeiro ¹ , M.R. Davolos ¹ , R.C.G. Frem ¹ , ¹ UNESP, Brazil, ² Universidade de São Paulo, Brazil
[B.3.3.14]	Polymer brushes on silica nanoparticles for designed interfaces in polymer nanocomposites B.C. Benicewicz, <i>University of South Carolina, USA</i>
[B.3.3.15]	The effect of surface functionalization on the photocatalytic behaviour of titanium dioxide nanoparticles and on their biological performance C. Cadman*, F. Cellesi, N. Tirelli, <i>University of Manchester, UK</i>
[B.3.3.16]	Rattle-Structured Ag@TiO₂ Nanocomposite Capsules with Bifunctional Bactericide and Photocatalysis Activities W.J. Tseng*, C.C. Cheng, <i>National Chung Hsing University, Taiwan</i>
[B.3.3.17]	Nanotransport using the kinesin motor protein A. Sikora* ¹ , J. Ramon-Azcon ¹ , D. Oliveira ¹ , K. Kim ¹ , A.L. Liao ² , W. Teizer ² , ¹ WPI-AIMR, Japan, ² Texas A&M, USA
[B.3.3.18]	Photocatalytic mixed matrix membrane for water purification K. Fischer*, M. Müller, J.W. Gerlach, R. Gläser, A. Schulze, <i>Leibniz Institute of Surface Modification, Germany</i>
[B.3.3.19]	Nanoplasmonic colloidal suspensions for the enhancement of the single walled carbon nanotubes luminescent emission M. Glaeske*, S. Reich, A. Setaro, <i>Freie Universität Berlin, Germany</i>
[B.3.3.20]	Microwave mediated growth of heterostructured ZnO@AlSi as a potential dual-function eco-catalyst P.S. Suchithra*, S. Ananthakumar, V. Linsha, K.B. Babitha, A. Peer Mohamed, <i>National Institute for Interdisciplinary Science and Technology, India</i>
[B.3.3.21]	Asymmetric hybrid nanomotor for motion-based DNA detection J. Simmchen* ¹ , B. Baeza ² , V. Magdanz ³ , D. Ruiz ¹ , S. Sanchez ³ , O. Schmidt ³ , ¹ Center of Nanoscience and Nanotechnology, Spain, ² Biomaterials and Nanomedicine, Spain, ³ NBC-group, Germany
[B.3.3.22]	Organic-inorganic hybrid dendrimer: Self-assembled liquid-crystalline gold nanoparticle with dendrimeric corona K. Kanie* ¹ , M. Matsubara ¹ , X. Zeng ² , F. Liu ² , G. Ungar ^{2,3} , A. Muramatsu ¹ , ¹ Tohoku University, Japan, ² University of Sheffield, UK, ³ Seoul National University, Republic of Korea
[B.3.3.23]	Photocatalytic performance of titanium dioxide/carbon nanotubes molecular hybrids and its antibacterial response M. Jedrzejczak* ¹ , A. Dybus ¹ , A. Markowska-Szczupak ^{1,2} , K. Cendrowski ^{1,2} , E. Mijowska ^{1,2} , ¹ West Pomeranian University of Technology, Faculty of Biotechnology and Animal Science, Poland, ² West Pomeranian University of Technology, Center of Knowledge Based Nanomaterials and Technologies, Poland
[B.3.3.24]	The effect of synthesis temperature on the size of ZIF-8 nanoparticles E.H.G. Langner*, C.W. Tsai, <i>University of the Free State, South Africa</i>
	SYMP. B - Functional nanostructures
[B.3.4.1]	N-alkylaminopyrazole Ligand Functionalized Gold Nanorod Assembly: a Strategy for Heavy Metal Detection T. Placido ^{1,2} , G. Aragay ³ , J. Pons ⁴ , R. Comparelli* ² , A. Merkoçi ^{3,5} , M.L. Curri ² , ¹ Università degli Studi di Bari, Italy, ² CNR-IPCF Istituto per i Processi Chimici e Fisici, Sez. Bari, c/o Dip. Chimica, Italy, ³ Nanobioelectronics & Biosensors Group, Institut Català de Nanotecnologia, Spain, ⁴ Department of Chemistry, Universitat Autònoma de Barcelona, Spain, ⁵ ICREA, Barcelona, Spain
[B.3.4.2]	Plasmonic nanoparticles and their assembled mesostructure towards metamaterials E. Fanizza ¹ , N. Depalo ¹ , M. Corricelli ² , L. Clary ² , M. Striccoli* ¹ , M.L. Curri ¹ , ¹ Cnr-IPCF, UOS BARI, Italy, ² Università degli Studi di Bari, Italy
[B.3.4.3]	Reversible photo-switching of magnetic layered double hydroxides intercalated with azobenzene molecules G. Abellán* ¹ , E. Coronado ¹ , H. García ² , P. Atienzar ² , J.L. Jordá ² , C. Martí-Gastaldo ¹ , ¹ Institute for Molecular Science, Spain, ² CSIC-UPV, Spain
[B.3.4.4]	Fully transparent, omniphobic surfaces based on colloidal templating N. Vogel*, R.A. Belisle, T.S. Wong, B. Hatton, J. Aizenberg, <i>School of Engineering and Applied Sciences, Harvard University, USA</i>
[B.3.4.5]	Rational design of omni-repellent liquid-infused nanostructured surfaces and their manufacturable coating methods on a wide range of materials P. Kim*, M.J. Kreder, J. Alvarenga, J. Aizenberg, <i>Harvard University, USA</i>
[B.3.4.6]	Gold nanoparticles supported on mussel inspired poly(dopamine methacrylamide)/magnetite microspheres as catalyst system M. Alvarez-Paino, G. Marcelo, A. Munoz-Bonilla*, J. Rodriguez-Hernandez, M. Fernandez-Garcia, <i>CSIC, Spain</i>
[B.3.4.7]	New composite material based on IrQ(ppy)₂-5Cl:PS layer for OLED applications I.C. Ciobotaru*, S. Polosan, <i>National Institute of Materials Physics, Romania</i>
[B.3.4.8]	Functional polystyrene beads stained with new carboxylated squaraine dyes for fluorescent sensing P.P. Soares*, D.S. Pisoni, F.S. Rodembusch, L.F. Campo, C.L. Petzhold, <i>Universidade Federal do Rio Grande do Sul, Brazil</i>
[B.3.4.9]	Fabrication of nano-cell structure on InSb surface filled with heterogeneous material K. Becchku*, K. Nakauchi, I. Osamu, N. Nitta, M. Taniwaki, <i>Kochi University of Technology, Japan</i>
[B.3.4.10]	Fabrication of Josephson junction utilising nanocell on compound semiconductor GaSb K. Shigematsu*, K. Becchaku, K. Morita, K. Yokoyama, N. Nitta, M. Taniwaki, <i>Kochi University of Technology, Japan</i>
[B.3.4.11]	Modelling hybrid nanopigments synthesis: From statistics to phenomenology E. Baena-Murillo*, B. Micó-Vicent, F. Martínez-Verdú, <i>Universidad de Alicante, Spain</i>
[B.3.4.12]	Formation and application of two-dimensional nanocell lattice by nanofabrication technique utilizing the point defects movement M. Taniwaki*, N. Nitta, <i>Kochi University of Technology, Japan</i>
[B.3.4.13]	Biocompatible piezoelectric (Na,K)NbO₃ nanofibers A. Jalalian* ^{1,2} , A.M. Grishin ² , X. Wang ¹ , S.X. Dou ¹ , R. El-Sayed ² , ¹ University of Wollongong, Australia, ² KTH Royal Institute of Technology, Sweden
[B.3.4.14]	Ionic liquid-porous hybrid nanocatalysts A.V. Perdikaki*, O.C. Vangelis, G.N. Karanikolos, N.K. Kanellopoulos, G.E. Romanos, <i>NCSR "DEMOKRITOS", Greece</i>

[B.3.4.15]	Crystallization kinetics of amorphous calcium carbonate microlens arrays K. Lee ¹ , I. Schmidt ¹ , E. Zolotoyabko ² , P. Werner ³ , P. Fratzl ¹ , W. Wagermaier* ¹ , ¹ Max Planck Institute of Colloids and Interfaces, Department of Biomaterials, 14424 Potsdam, Germany, ² Technion - Israel Institute of Technology, Department of Materials Science and Engineering, Haifa 32000, Israel, ³ Max Planck Institute of Microstructure Physics, 06120 Halle, Germany
[B.3.4.16]	Synthesis and optical properties of Cu_{2-x}Te nanocrystals of various shapes I. Kriegel* ¹ , J. Rodríguez-Fernández ¹ , A. Wisnet ² , A. Dubavik ¹ , E. Da Como ^{1,3} , J. Feldmann ¹ , ¹ Department of Physics and CeNS, Ludwig-Maximilians-Universität München, Germany, ² Department of Chemistry, Ludwig-Maximilians-Universität München, Germany, ³ University of Bath, UK
[B.3.4.17]	Magnetic carbon nanotubes and graphene based membranes and nanoparticles G.N. Karanikolos, G.E. Romanos, E.C. Vermisoglou, A.V. Perdikaki*, G. Pilatos, N.K. Kanellopoulos, NCSR, Greece
[B.3.4.18]	Liquid phase epitaxial growth of highly oriented MOF thin films and their postsynthetic modification using click chemistry Z. Wang*, H. Gliemann, S. Bräse, C. Wöll, Karlsruhe Institute of Technology, Germany
[B.3.4.19]	Multifunctional hybrid magnetoactive elastomer G.V. Stepanov, A. Bakhtiarov*, State Scientific Research, Russia
[B.3.4.20]	One shot fabrication and self-assembly of nanoparticles into metal rings for sensing applications M. Khanafer* ^{1,2} , S. Jradi ¹ , S. Akil-Jradi ¹ , P.M. Adam ¹ , J. Plain ¹ , T. Hamieh ² , R. Bachelot ¹ , ¹ Université de Technologie de Troyes, France, ² Université Libanaise, Lebanon
[B.3.4.21]	New pyrrolopyrimidine-based fluorophores: Synthesis, characterization and aggregation-induced emission enhancement J. Dodonova ¹ , L. Skardziute ² , K. Kazlauskas ² , S. Jursenas ² , S. Tumkevicius* ¹ , ¹ Vilnius University, Department of Organic Chemistry, Lithuania, ² Vilnius University, Institute of Applied Research, Lithuania
[B.3.4.22]	Cellulose surface grafted with amino acids and its catalytic oxidation by gold nanoparticles M. Hernández*, E. Lima, Universidad Nacional Autónoma de México, Mexico
[B.3.4.23]	Hybrid organic-inorganic microstructures fabricated by two-photon polymerization using microchip lasers P. Prabhakaran* ¹ , M. Bouriau ¹ , J.P. Malval ² , A. Spangenberg ² , O. Stephan ¹ , P. Baldeck ¹ , ¹ Universite Joseph Fourier, France, ² Alsace, France
[B.3.4.24]	The effect of thermal treatment on the properties of microstructure of extruded and sintered TiO₂ ceramics A. Pura*, J. Locs, K. Rubenis, L. Berzina-Cimdina, Riga Technical University, Latvia
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[B.3.5.1]	Preparation and characterization of hybrid materials based on polyaniline, chitosan and organically modified clay R.C. Silva ² , M.V. Sarmiento ² , F.A.R. Nogueira ² , J. Tonholo ² , R. Faez* ¹ , A.S. Ribeiro ² , ¹ Federal University of São Carlos, Brazil, ² Federal University of Alagoas, Brazil
[B.3.5.2]	Magneto-luminescent particles. [Eu(tta)₃(Bpy-Si)] modified Fe₂O₃@SiO₂ particles S.J.L. Ribeiro* ¹ , R.R. Silva ¹ , A.P. Duarte ¹ , M. Gressier ² , M.J. Menu ² , J. Dexpert-Ghys ³ , ¹ Institute of Chemistry - São Paulo State University, Brazil, ² Université de Toulouse, France, ³ CNRS, France, ⁴ Department of Chemistry, University of São Paulo, Brazil, ⁵ Federal University of Goiás, Brazil
[B.3.5.3]	Preparation and characterization of chitosan/clay nanocomposites for development of bulk modified electrodes B. Tosh, Orissa Engineering College, India
[B.3.5.4]	Electroresponsive characteristics of polymer/graphene oxide smart nanocomposites W.L. Zhang, H.J. Choi*, Inha University, Republic of Korea
[B.3.5.5]	Polyvinylidene fluoride-co-hexafluoropropylene/nano-crystalline cellulose nanocomposite mats for lithium-ion batteries: Mechanical and Electrochemical properties B.S. Lalia*, R. Hashaikeh, Masdar Instititue of Science and Technology, United Arab Emirates
[B.3.5.6]	Synthesis and characterization of epoxy nanocomposites A.I. Barabanova* ¹ , E.S. Afanas`ev ¹ , A.A. Askadskii ¹ , O.E. Philippova ² , A.R. Khokhlov ² , ¹ Russian Academy of Sciences, Russia, ² Moscow State University, Russia
[B.3.5.7]	Advanced strategies for a more sustainable synthesis of metalnitrides and oxynitrides D. Ressnig*, T. Corbiere, C. Giordano, M. Antoniotti, Max Planck Institute of Colloids and Interfaces, Germany
[B.3.5.8]	Physical properties of composites derived from lamellar MnPS₃ E. Spodine* ^{1,2} , P. Fuentealba ^{1,2} , L. Seron ^{1,2} , C. Sanchez ^{1,2} , J. Manzur ^{1,2} , V. Paredes ^{2,3} , ¹ Universidad de Chile, Chile, ² CE DENNA, Chile, ³ Universidad Andres Bello, Chile, ⁴ Universidad de Santiago de Chile, Chile
[B.3.5.9]	A comparative study on microstructure evolution of 14 YWT ODS nanocomposites during mechanical alloying by electro-metallographic and X-ray profiles broadening analysis R. Mojaver*, B. Dousti, H.R. Shahverdi, Tarbiat Modares University, Iran
[B.3.5.10]	Films of plasticized PVC/copper nanocomposite with biostatic properties S. Rodríguez-Llamazares* ¹ , A. Becerra ¹ , C. Carrasco ² , M.A. Mondaca ² , ¹ Centro de Investigación de Polímeros Avanzados, Chile, ² Universidad de Concepción, Chile
[B.3.5.11]	BiFeO₃@α-Fe₂O₃ core/shell nanocomposites with strong selectivity in organic dye adsorption and magnetic recycle capability W.J. Tseng*, R.D. Lin, National Chung Hsing University, Taiwan
[B.3.5.12]	Hydrogenation properties of a metal-polymer composite for solid state hydrogen storage E. Santecchia* ¹ , R. Checchetto ² , G. Carotenuto ³ , G. Barucca ¹ , P. Mengucci ¹ , ¹ Università Politecnica delle Marche, Italy, ² Università di Trento, Italy, ³ National Research Council, Italy
[B.3.5.13]	Nanocomposite copper oxide supported mesoporous zirconia: Physicochemical properties T. Ali* ¹ , E. Alsharaeh ² , H. Mahmoud ³ , S. Basahel ¹ , M. Mokhtar ¹ , ¹ King Abdulaziz University, Saudi Arabia, ² Alfaisal University, Saudi Arabia,

	³ University of Hail, Saudi Arabia
[B.3.5.14]	Hydrophobic nanoreactor templating for nanostructured metal NP – Metal oxide nanocomposite electrodes A. Guiet, N. Heidary, A. Fischer*, <i>Technical University Berlin, Germany</i>
[B.3.5.15]	Effect of different nanofillers on polyamide 6 L. Fambri* ¹ , A. Pegoretti ¹ , D. Lorenzi ¹ , A. Dorigato ¹ , G. Giacomelli ² , M. Brugnara ³ , ¹ University of Trento, Italy, ² Aquafil s.p.a, Italy, ³ UFI Innovation Center s.r.l., Italy
[B.3.5.16]	Electrical and mechanical properties of injection moulded carbon nanotube filled polymer parts J. Tiusanen* ^{1,5} , B. Kiss-Pataki ² , M. Wegrzyn ³ , A. Matveeva ⁴ , D. Vlasveld ¹ , J. Vuorinen ⁵ , ¹ Promolding B.V., The Netherlands, ² MFA, Hungary, ³ AIMPLAS, Spain, ⁴ University of Minho, Portugal, ⁵ Tampere University of Technology, Finland
[B.3.5.17]	Organic-inorganic nanohybrid compound of precursor of antiparkinsonian active agent, levodopa with controlled release property M.Z. Hussein, A.H. Abdullah*, S. Abdul Ghani, <i>Universiti Putra Malaysia, Malaysia</i>
[B.3.5.18]	Microstructure and electrical properties of CNT filled PC/PS blend M.H. Al-Saleh*, H.K. Al-Anid, Y.A. Hussain, <i>Jordan University of Science and Technology, Jordan</i>
[B.3.5.19]	Damage and wear resistance of Al₂O₃-CNT nanocomposites B.K. Jang* ¹ , K.S. Lee ² , Y. Sakka ¹ , ¹ National Institute for Materials Science, Japan, ² Kookmin University, Republic of Korea
[B.3.5.20]	Ag/PDDA-diatomite nanocomposite as a potential material for a microbial water treatment A. Panacek* ¹ , A. Balzerova ¹ , R. Prucek ¹ , R. Vecerova ² , V. Husickova ² , J. Pechousek ³ , ¹ Faculty of Science, Palacký University in Olomouc, Czech Republic, ² Faculty of Medicine and Dentistry, Palacký University in Olomouc, Czech Republic, ³ Faculty of Science, Palacký University in Olomouc, Czech Republic
[B.3.5.21]	Magnetic nanocomposites of iron oxide and silver nanoparticles with high antibacterial and antifungal activities R. Prucek* ¹ , M. Kilianova ¹ , J. Tuček ² , A. Panacek ¹ , L. Kvitěk ¹ , M. Kolar ³ , ¹ Department of Physical Chemistry, Palacký University, Czech Republic, ² Department of Experimental Physics, Palacký University, Czech Republic, ³ Department of Microbiology, Palacký University, Czech Republic
[B.3.5.22]	Polymeric microgels for catalysis N. Sahiner* ¹ , T. Turhan ¹ , E. Karacan ¹ , N. Aktas ² , ¹ Canakkale Onsekiz Mart University, Turkey, ² Yuzuncu Yil University, Turkey
[B.3.5.23]	Electrical and dielectric investigations of polyaniline-sulphonated polystyrene composites M.A. Moussa*, G.M. Turkey, A. Yousef, M.A. Abdel Rehim, <i>National Research Center, Egypt</i>
[B.3.5.24]	Film formation kinetics of epoxy resin reinforced with nanofibrillated cellulose H. Al-Turaif, <i>King Abdulaziz University, Saudi Arabia</i>
[B.3.5.25]	Advanced recording, stimulation and sensing using PEDOT-CNT microelectrodes R. Gerwig* ¹ , P. Cesare ¹ , U. Kraushaar ¹ , S. Reinartz ² , M. Giugliano ³ , M. Stelzle ¹ , ¹ University of Tuebingen, Germany, ² Network Biology Research Labs, Israel, ³ University of Antwerp, Belgium
[B.3.5.26]	Preparation and Characterization of Graphene Incorporated Cellulose Acetate Nanofibers, their Structural and Mechanical Properties G. Mayakrishnan*, F. Kazushige, B.S. Kim, W. Kai, I.S. Kim, <i>Shinshu university, Japan</i>
[B.3.5.27]	From silicon-containing precursors to nanostructured organic-inorganic hybrid materials by twin polymerization - A combined study by theory and experiment P. Kitschke* 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
[B.3.5.28]	Thermal and combustion behavior of polyethersulfone-boehmite nanocomposites M. Monti* ¹ , G. Camino ¹ , ¹ Proplast Consortium, Italy, ² Politecnico di Torino, Italy
[B.3.5.29]	Application of ionic liquid for modification of cellulose and preparation of cellulose/magnetite composite I. Shcherbakov* ^{1,2} , A. Toikka ¹ , A. Kraslawski ² , ¹ Saint-Petersburg State University, Russia, ² Lappeenranta University of Technology, Finland
[B.3.5.30]	Multicomponental polyurethane elastomers, nanocomposites and films M. Špírková*, R. Poreba, M. Serkis, <i>Institute of Macromolecular Chemistry AS CR, v.v.i., Czech Republic</i>
	SYMP. B - Other
[B.3.6.1]	Conductive carbon films by solution process using nitrogen-containing oligomer K.G. Chung*, M. Antonietti, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[B.3.6.2]	Fabrication and characterization of environmentally conscionable semiconductor β-FeSi₂ N. Nishioka*, M. Okamoto, N. Nitta, M. Taniwaki, <i>Kochi University of Technology, Japan</i>
[B.3.6.3]	Optical property and crystallographical structure of metal doped TiO₂ thin films fabricated by pulsed laser deposition T. Nishiuchi*, S. Ayumi, N. Kawadu, M. Ikeuchi, K. hayashi, H. Tomozawa, <i>Kochi University of Techenology, Japan</i>
[B.3.6.4]	Nitrobenzene sensor based on electrospun luminescent nanofibers prepared from cationic polyfluorene /cellulose acetate blend R. Vázquez-Guilló*, Z. Kahveci, A. Calero, M.J. Martinez-Tomé, C.R. Mateo, R. Mallavia, <i>Universidad Miguel Hernandez de Elche, Spain</i>
[B.3.6.5]	Analysis of a double perovskite: From Fe and Mo octahedral coordinated clusters O.A. Cruz ¹ , J. Pilo ¹ , E. Carvajal* ¹ , F. Salazar ¹ , R. Oviedo-Roa ² , M. Cruz-Irisson ¹ , ¹ Instituto Politécnico Nacional, Mexico, ² Instituto Mexicano del Petróleo, Mexico, ³ Universidad Nacional Autónoma de México, Mexico
[B.3.6.6]	Coupling between grain-boundary defects segregation and oxygen diffusion in nanocrystallineYSZ R.L. González-Romero ¹ , J.J. Meléndez* ² , D. Gómez-García ¹ , F.L. Cumbera ¹ , A. Domínguez-Rodríguez ¹ , ¹ University of Sevilla, Spain, ² University of Extremadura, Spain
[B.3.6.7]	Electric properties and characterization of titanium dioxide obtained by different chemistry methods M. Pawlucha ^{1,2} , A. Wypych* ¹ , J. Grobelny ² , I. Bobowska ¹ , A. Opasinska ¹ , K. Ziarko ¹ , ¹ Lodz University of Technology, Department of Molecular Physics, Poland, ² University of Lodz, Poland, ³ Lodz University of Technology, Institute of Applied Radiation Chemistry, Poland
	SYMP. B - Selforganisation of nanoobjects

[B.3.7.1]	Steric hindrance induces cross-like self-assembly of gold nanodumbbells M. Grzelczak ^{1,3} , A. Sánchez-Iglesias ^{*1,2} , H.H. Mezerji ⁴ , S. Bals ⁴ , J. Pérez-Juste ² , L.M. Liz-Marzán ^{1,3} , ¹ CIC biomaGUNE, Spain, ² Universidade de Vigo, Spain, ³ Basque Foundation for Science, Spain, ⁴ University of Antwerp, Belgium
[B.3.7.3]	Nanostructured surfaces by associative interactions in polymers of ladder silsesquioxane backbone M. Nowacka*, A. Kowalewska, A. Tracz, T. Makowski, <i>Polish Academy of Science, Poland</i>
[B.3.7.4]	Liquid-crystalline organic-inorganic hybrid dendrimer: Photoluminescence behavior of self-organized cds nanoparticles M. Matsubara ^{*1} , K. Kanie ¹ , M. Nakaya ¹ , X. Zeng ² , G. Ungar ^{2,3} , A. Muramatsu ¹ , ¹ Tohoku University, Japan, ² University of Sheffield, UK, ³ Seoul National University, Republic of Korea
[B.3.7.5]	Graphite intercalation compounds with rotator hexagonal order in the intercalated layers M. Mauro ^{*1} , P. Longo ¹ , G. Guerra ¹ , V. Cipolletti ² , M. Galimberti ² , A. Lostritto ³ , ¹ Università di Salerno, Italy, ² Politecnico di Milano, Italy, ³ Pirella Tyre, Italy
SYMP. B - Sol-gel derived hybrids	
[B.3.8.1]	Effect of acetic acid concentration on mullite crystallization kinetics T.M.B. Campos, F.M. Marques, G.P. Thim*, <i>Instituto Tecnológico de Aeronáutica, Brazil</i>
[B.3.8.2]	Photoluminescence enhancement of CdSe/ZnS QDs embedded in GPTS-TEOS-derived organic/silica hybrid colloids during gelation kinetics L.D.S. Alencar ¹ , V. Pilla ² , D.A. Donatti ¹ , D.R. Vollet ¹ , F.S. De Vicente ^{*1} , ¹ UNESP, Brazil, ² UFU, Brazil
[B.3.8.3]	Organic-inorganic hybrid films containing conducting polymer based on PANi B.A. Archanjo ¹ , R. Faez ² , C. Molina ^{*1} , ¹ Universidade Federal de São Paulo, Brazil, ² Universidade Federal de São Carlos, Brazil
[B.3.8.4]	Thermo-stimulable core shell particles M. Depardieu ^{*1,2} , M. Nollet ² , M. Destribats ² , V. Schmitt ² , R. Backov ^{1,2} , ¹ Université de Bordeaux, France, ² CNRS, France
[B.3.8.5]	Silica-coated magnetic emulsion: Synthesis, characterization and properties A. Bitar*, H. Fessi, A. Elaissari, <i>The Université Claude Bernard Lyon 1, France</i>
[B.3.8.6]	Hybrid organosilicate materials by non-hydrolytic sol-gel synthesis J. Pinkas ^{*1} , M. Kejik ¹ , Z. Moravec ¹ , C.E. Barnes ² , ¹ Masaryk University, Czech Republic, ² University of Tennessee, USA
[B.3.8.7]	Synthesis of photo-responsive siloxane-azobenzene nanohybrid materials S. Guo*, T. Okubo, A. Shimojima, <i>The University of Tokyo, Japan</i>
[B.3.8.8]	Optical properties of high-performance liquid crystal-xerogel microcomposite electro-optical film in VIS-IR range M. Timusk ^{*1,2} , M. Järvekülg ^{1,2} , A. Salundi ^{1,2} , S. Leinberg ^{1,2} , R. Löhmus ^{1,2} , I. Kink ^{1,2} , ¹ University of Tartu, Estonia, ² Estonian Nanotechnology Competence Centre, Estonia
[B.3.8.9]	Single hybrid colloid particles studied by near edge X-ray absorption spectronanoscropy K. Henzler ^{*1,2} , P. Guttman ¹ , Y. Lu ² , F. Polzer ³ , G. Schneider ¹ , M. Ballauff ^{2,3} , ¹ Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany, ² Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany, ³ University Berlin, Germany
[B.3.8.10]	Effect of concentration of Cd on structural and optical properties of ZnO:Cd thin films prepared by sol-gel method A.I. Khudiar ^{*1} , M. Zulfequar ² , Z.H. Khan ² , ¹ Center of Applied Physics, Iraq, ² Jamia Millia Islamia, India
[B.3.8.11]	New fluorescent hybrid materials by immobilization of cyclodextrin-conjugated polymer nanoparticles within silica glasses M.J. Martínez-Tomé, Z. Kahveci*, R. Vázquez-Guilló, R. Mallavia, C.R. Mateo, <i>Universidad Miguel Hernández de Elche, Spain</i>
[B.3.8.12]	Controlled synthesis of MoS₂ in silica glass and ideal model system for fundamental studies A. Budnyk*, A. Damin, A. Zecchina, S. Bordiga, <i>Università degli Studi di Torino, Italy</i>
[B.3.8.13]	Evolution of electric properties and structure characterization of thermally treated barium titanate precursors obtained by sol-gel method A. Wypych ^{*1} , I. Bobowska ¹ , M. Pawlucha ^{1,2} , A. Opasinska ¹ , K. Ziarko ¹ , W. Maniukiewicz ³ , ¹ Lodz University of Technology, Department of Molecular Physics, Poland, ² University of Lodz, Poland, ³ Lodz University of Technology, Institute of General and Ecological Chemistry, Poland
SYMP. C - Carbon-related functional porous materials	
[C.3.1.1]	Thermoresponsive graphene nanosheets functionalized with polymer brushes J.E. Lee*, J.M. Bak, H.I. Lee, <i>University of Ulsan, Republic of Korea</i>
[C.3.1.2]	A versatile molten-salt route to group IV semiconductor nanoparticles and carbon nanostructures X.L. Liu*, C.G. Giordano, M.A. Antonietti, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[C.3.1.3]	Synthesis of macro-meso-microporous templated carbon by using polyaniline as a carbon source L. Hoyos ^{*1} , M. Mesa Cadavid ¹ , A. Ramirez Velez ¹ , E. Viguera ² , S. Hernandez ² , ¹ Universidad de Antioquia, Colombia, ² Universidad Autonoma del Estado de Mexico, Mexico
[C.3.1.4]	The influence of pore sizes on microwave absorption properties of porous carbon fiber filled composites G. Li*, J.H. Jin, S.L. Yang, J.M. Jiang, <i>Donghua University, China</i>
[C.3.1.5]	Preparation, characterization of ordered mesoporous carbons and their evaluation for heavy metal adsorption M.A. Karakassides ^{*1} , M. Baikousi ¹ , A. Bourlinos ² , C.D. Daikopoulos ³ , Y. Georgiou ³ , Y. Deligiannakis ³ , ¹ Department of Materials Science and Engineering, University of Ioannina,, Greece, ² Physics Department, University of Ioannina,, Greece, ³ University of Western Greece, Greece, ⁴ Palacky University in Olomouc, Czech Republic
[C.3.1.6]	Multi purposes carbon based material applied biodiesel chain L.N. Batista*, V.F. Silva, M.G. Fonseca, <i>Instituto Nacional de Metrologia, Qualidade e tecnologia, Brazil</i>
[C.3.1.7]	Development of nitrogen-doped ordered mesoporous carbons with KIT-6 as template for oxygen reduction reaction in alkaline fuel cells T.O. Alaje*, A.A. Dumitru, K. Scott, <i>Newcastle University, UK</i>
SYMP. C - Hierarchically structured materials	
[C.3.3.1]	Hierarchically structured silicon oxycarbide coatings B. Reznik*, M. Ströbele, H. Bockhorn, <i>Karlsruhe Institute for Technology, Germany</i>

[C.3.3.2]	Towards hierarchically structured imidazolate frameworks E. Fluegel ^{*1,2} , S. Junggeburth ^{1,2} , V. Duppel ¹ , B. Lotsch ^{1,2} , ¹ Max-Planck-Institute for Solid State Research, Germany, ² University of Munich, Germany
[C.3.3.3]	Sulphonic acid functionalized continuous flow monolithic microreactors for esters synthesis A. Koreniuk, K. Maresz, J. Mrowiec-Bialon*, <i>Polish Academy of Sciences, Poland</i>
[C.3.3.4]	Tailored semifluorinated polymer surfaces S. Hietala*, L. Valtola, M. Karesoja, H. Tenhu, <i>University of Helsinki, Finland</i>
[C.3.3.5]	Composite MOF foams: The example of UiO-66/polyurethane M.L. Pinto*, S. Dias, J. Pires, <i>University of Lisbon, Portugal</i>
[C.3.3.6]	Highly dispersed Pt nanoparticles embedded in hollow mesoporous carbon spheres as efficient and stable electrocatalyst for methanol oxidation C. Yang*, K.Y. Chan, <i>The University of Hong Kong, Hong Kong</i>
SYMP. C - Macrocellular solids	
[C.3.4.1]	Microfluidic foaming technique for the production of tissue engineering scaffolds with controllable porosity C. Colosi*, M. Costantini, A. Barbeta, M. Dentini, <i>Sapienza Università di Roma, Italy</i>
SYMP. C - Membranes	
[C.3.5.1]	Silver-PES antimicrobial ultrafiltration nanocomposite membranes: Preparation and performance studies J. Mansouri*, T. Charlton, V. Chen, <i>University of New South Wales, Australia</i>
[C.3.5.2]	A novel adsorbent for dna adsorption: Fe³⁺--attached sporopollenin particles embedded composite cryogels M. Odabasi*, S. Ceylan ¹ , M.H. Alkan ² , O. Acet ¹ , G. Yüksel ¹ , C. Öztürk ¹ , ¹ Aksaray University, Turkey, ² Dicle University, Turkey
[C.3.5.3]	Investigation of lysozyme adsorption performance of Cu²⁺-attached PHEMA beads embedded cryogel membranes S. Ceylan, O. Acet, G. Yuksel, C. Ozturk, M.T. Altay, M. Odabasi*, <i>Aksaray University, Turkey</i>
[C.3.5.4]	A novel low-cost natural adsorbent: Pumice, for protein purification with composite monolithic cryogels M.H. Alkan ¹ , F. Gurbuz ² , M. Dogru ¹ , S. Ceylan ² , M. Odabasi*, ¹ Dicle University, Turkey, ² Aksaray University, Turkey
[C.3.5.5]	Sorption of DNA by diatomite-Zn(II) embedded supermacroporous monolithic p(HEMA) cryogels K.O. Tozak, M. Erzenin*, <i>Aksaray University, Turkey</i>
SYMP. C - Mesoporous materials	
[C.3.6.1]	Optimized titanium structures for regenerative medicine applications C. Popa*, A.M. Salantiu ¹ , O. Soritau ² , S. Simon ³ , ¹ Technical University of Cluj-Napoca, Romania, ² Oncology Institute "Prof.Dr. Ion Chiricuta" Cluj-Napoca, Romania, ³ "Babes Bolyai" University of Cluj-Napoca, Romania
[C.3.6.2]	Synthesis and structural characterization of mesoporous zeolites as catalytic materials A. Garcia-Quiroz*, L.N. Jeronimo-Guerrero, E. Lopez-Chavez, R. Muñoz-Vega, <i>Universidad Autonoma de la Ciudad de Mexico, Mexico</i>
[C.3.6.3]	Multifunctional luminescent hybrid nanoparticles for imaging, specific targeting, and drug delivery system E.A. Prasetyanto*, N. Licciardello, L. De Cola, <i>Institut de Science et d'Ingénierie Supramoléculaires, France</i>
[C.3.6.4]	Zeta potential as a tool for characterization of mesoporous peptide delivery system M. Kaasalainen*, E. Mäkilä ¹ , K. Järvinen ² , V.P. Lehto ² , J. Salonen ¹ , ¹ University of Turku, Finland, ² University of Eastern Finland, Finland
[C.3.6.5]	Multifunctional material obtained by mesoporous silica coated upon luminescent nanoparticles of YVO₄ L.G. Justino ¹ , L.A. Rocha ² , S.J.L. Ribeiro ³ , J.M.A. Caiut*, ¹ University of São Paulo, Brazil, ² Franca University, Brazil, ³ São Paulo State University, Brazil
[C.3.6.6]	A new class of silica-titania catalysts by chitin biotemplating A. Sachse*, E. Belamie ¹ , N. Marcotte ¹ , K. Kostov ² , V. Hulea ¹ , B. Alonso ¹ , ¹ Institut Charles Gerhardt, Montpellier, France, ² Bulgarian Academy of Sciences, Bulgaria
[C.3.6.7]	Porous silicon based biosensors and nanopowders L. De Stefano*, I. Rea ¹ , A. Lamberti ² , ¹ CNR, Italy, ² DBBM-Unina, Italy
[C.3.6.8]	Poly(ionic liquid) complex with spontaneous micro-/mesoporosity: Template-free synthesis and application as catalyst support Q. Zhao*, P.F. Zhang, M. Antonietti, J.Y. Yuan, <i>Max Planck Institute of Colloids and Interfaces, Germany</i>
[C.3.6.9]	On the use of liquid/lyophobic mesoporous particles systems in vibration damping M. Michelin-Jamois*, E. Charlaix ² , G. Vigier ¹ , ¹ INSA de Lyon, France, ² Université Joseph Fourier Grenoble, France
[C.3.6.10]	Efficient removal of MC-LR by functional mesoporous materials W. Teng*, D. Feng, Z.X. Wu, J.W. Fan, H. Chen, D.Y. Zhao, <i>Fudan university, China</i>
[C.3.6.11]	Helical pmo tartrate based materials. Application as catalyst in asymmetric mannich reactions R.A. García, V. Morales*, M. Linares, B. Rico, <i>Rey Juan Carlos University, Spain</i>
[C.3.6.12]	Bright and stable fluorescent mesoporous silicon nanoparticles W.J. Xu*, J. Riikonen, V.P. Lehto, <i>University of Eastern Finland, Finland</i>
[C.3.6.13]	Theoretical study of the effects of oxygen and hydroxyl on the surface passivation of ordered mesoporous silicon carbide M. Calvino, A. Trejo, E. Carvajal*, F. Salazar, M. Cruz-Irisson, <i>Instituto Politécnico Nacional, Mexico</i>
[C.3.6.14]	Controlling particle size and structural properties of mesoporous silica nanoparticles using the taguchi method Y.D. Chiang*, C.W. Wu, <i>National Taiwan University, Taiwan</i>
[C.3.6.15]	Study on tubular and spherical mesoporous silica-titania molecular hybrids - synthesis and cytotoxicity K. Cendrowski ¹ , M. Peruzynska ^{1,2} , M. Kurzawski ^{1,2} , R.J. Kalenczuk ¹ , M. Drozdziak ^{1,2} , E. Mijowska*, ¹ West Pomeranian University of Technology, Poland, ² Pomeranian Medical University, Poland
[C.3.6.16]	Luminescent hybrid materials based on the mesoporous silica host MCM-41 incorporated with europium complexes

	H. Eckert ¹ , A.S.S. de Camargo ^{1,2} , R.M. Ilibi ¹ , J. Ren ¹ , T. B. de Queiroz ² , ¹ WWU Münster, Germany, ² Universidade de São Paulo, Brazil
	SYMP. C - MOFs
[C.3.7.1]	Hybridization of aluminum-based porous coordination polymers (PCPs) with gold nanorods for light-induced guest release K. Khaletskaya* ² , J. Reboul ¹ , R.A. Fischer ² , S. Kitagawa ¹ , S. Furukawa ¹ , ¹ Kyoto University, Japan, ² Ruhr-University-Bochum, Germany
[C.3.7.2]	Nanoparticle enrichment at crystal defect sites in metal-loaded UMCM-1 C. Wiktor* ^{1,2} , S. Turner ² , M. Müller ³ , R.A. Fischer ¹ , G. van Tendeloo ² , ¹ Ruhr-University Bochum, Germany, ² University of Antwerp, Belgium, ³ Universidad Politécnica de Valencia, Spain
[C.3.7.3]	Charge transport properties of surface mounted metal organic frameworks (SURMOFs) loaded with electroactive molecules V. Mugnaini* ¹ , M. Buck ^{1,2} , C. Wöll ¹ , ¹ KIT, Germany, ² University of St Andrews, UK
[C.3.7.4]	Surface-directed step-by-step growth of homochiral metal-organic framework thin film for enantioselective adsorption Z. Gu*, H. Gliemann, C. Wöll, KIT, Germany
[C.3.7.5]	Electronic properties of hydroxyacetophenone based coordination polymer films M. Günthel ¹ , J. Hübscher ² , R. Dittrich ³ , Y. Joseph ³ , E. Weber ² , F. Mertens* ¹ , ¹ Instut für Physikalische Chemie, TU Bergakademie Freiberg, Germany, ² Institut für Organische Chemie, TU Bergakademie Freiberg, Germany, ³ Institut für Elektronik- und Sensormaterialien, TU Bergakademie Freiberg, Germany
[C.3.7.6]	Multifunctional luminescent and proton-conducting lanthanide carboxyphosphonate open-framework hybrids exhibiting crystalline-to-amorphous-to-crystalline transformations K.E. Papatthanasiou*, N. Stavgianoudaki, R.M.P. Colodrero, A. Cabeza, K.D. Demadis, University of Crete, Greece
[C.3.7.7]	One-dimensional polymer complexes of molybdenum(II) carboxylates and N,N'-bidentate ligands M. Mikuriya* ¹ , N. Kaihara ¹ , S. Takada ¹ , D. Yoshioka ¹ , H. Tanaka ² , M. Handa ² , ¹ Kwansei Gakuin University, Japan, ² Shimane University, Japan
[C.3.7.8]	Template synthesis of nanoscale porous materials - nanoscale metal-organic frameworks (MOFs) B. Sartowska* ¹ , W. Starosta ¹ , A. Pieniazek ¹ , O. Orelovitch ² , P. Apel ² , ¹ Institute of Nuclear Chemistry and Technology, Poland, ² Flerov Laboratory for Nuclear Research, Russia
	SYMP. C - Other
[C.3.8.1]	Epitaxial growth of mesoporous and nanostructured α-Quartz thin films by Sol-Gel method A. Carretero-Genevriev* ¹ , M. Gich ² , L. Picas ³ , J. Gazquez ² , C. Boissière ¹ , J. Rodriguez-Carvajal ⁴ , ¹ UMR7574 Collège de France, France, ² ICMAB-CSIC, Spain, ³ Inserm U1006, France, ⁴ ILL, France
[C.3.8.2]	Dynamic response and energy absorption of foam-filled tubes under axial loadings Y. An*, P. Hodgson, C. Yang, Deakin University, Australia
[C.3.8.3]	Electrochemical fabrication of Cu₂S, Ag₂S and CdS porous foams P. Shahbazi Saif Abadi*, A. Kiani, University of Isfahan, Iran
[C.3.8.4]	Experimental study of gaseous elemental mercury removal with Co/FA Y.L. Xu*, L.L. Xing, Q. Zhong, Nanjing University of Science and Technology, China
	SYMP. C - Zeolites
[C.3.9.1]	Catalytic properties of zeolites functionalized with the [V₁₈O₄₂(H₂O)]¹²⁻ polyoxometalate D. Venegas-Yazigi* ^{1,2} , M. Gutierrez ^{1,2} , D. Altbir ^{2,3} , M.T. Garland ⁴ , V. Paredes-García ^{2,5} , E. Spodine ^{2,6} , ¹ Facultad de Química y Biología, Universidad de Santiago de Chile, Chile, ² CEENNA, Chile, ³ Facultad de Ciencia, Universidad de Santiago de Chile, Chile, ⁴ Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, Chile, ⁵ Universidad Andres Bello, Chile, ⁶ Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Chile
[C.3.9.2]	Zeolitic imidazolate framework - Ionic liquid hybrids for enhanced CO₂ capture and separation G.N. Karanikolos, A. Labropoulos, G.E. Romanos, O.I. Tziaila, C. Vezyri, X.L. Papatryfon*, NCSR, Greece
[C.3.9.3]	Synthesis of natural Zeolite clinoptilolite-encapsulated Pb and PbSe J.L. Almaral-Sanchez* ¹ , J. Flores-Valenzuela ¹ , M. Flores-Acosta ² , S.P. Arredondo Rea ¹ , R. Corral-Higuera ¹ , A. Cruz-Enriquez ¹ , J.J. Campos-Gaxiola ¹ , ¹ Universidad Autónoma de Sinaloa, Mexico, ² Universidad de Sonora, Mexico