Poster Programme

Poster Session 1- Tuesday, 21 May 2013 16:00-17:30; 19:10-21:00	
P1.1	**Novel biologically active caffeic acid-derived polymer from different species of boraginaceae family** V. Barbakadze*[1], L. Gogilashvili[1], L. Amiranashvili[1], M. Merlani[1], K. Mulkijanyan[1], *[1]Tbilisi State Medical University, Georgia*
P1.2	**Super capacitive properties of meso-porous poly(aniline) electrodes** N.H. Khdary*[1], G. El Enany[1], *[1]King Abdulaziz City for Science and Technology, Saudi Arabia*
P1.3	**Synthesis, characterization and performance study of borosilazane as UV-curable borazine-type single source precursors for SiBNC ceramic** L.X. Chen*[1], J.K. Zhang[1], W.Q. He[1], *[1]Northwestern Polytechnical University, China*
P1.4	**Covalently crosslinked albumin microspheres with well-defined forms as a protein-structured carrier for oral drug delivery** A.F. Rubira*[1], D.L.A. Sitta[1], M.R. Guilherme[1], E.C. Muniz[1], *[1]Universidade Estadual de Maringá, Brazil*
P1.5	***Cis*-stereospecific topochemical polymerizations: Alternating copolymerizations of 7,7,8,8-tetrakis(alkoxycarbonyl)quinodimethanes with 7,7,8,8-tetracyanoquinodimethane** T. Itoh*[1], T. Suzuki[1], T. Uno[1], M. Kubo[1], N. Tohnai[2], M. Miyata[2], *[1]Mie University, Japan, [2]Osaka University, Japan*
P1.6	**Transport of aromatic and aliphatic solvents through natural rubber/nitrile rubber blend nanocomposite membranes** H. J.Maria*[1], S. Thomas[1,2], A. Nzihou[3], K. Joseph[4], N. Lyczko[3], S. C.George[1], *[1]Mahatma Gandhi University, India, [2]Universiti of Teknologi MARA, Malaysia, [3]Université de Toulouse, France, [4]Indian Institute of Space Science and Technology, India*
P1.7	**Pectin microspheres with titanium dioxide and/or magnetite nanostructures for oral amoxicillin delivery for the treatment of gastric ulcers** A.F. Rubira*[1], E.P. Silva[1], M.R. Guilherme[1], M.H. Kunita[1], *[1]Universidade Estadual de Maringá, Brazil*
P1.8	**Aggregates of amphiphilic block copolymers as reducing agents in the synthesis of gold nanoparticles** E. Bossel*[1], A. Leiva[1], I. Fuentez[1], M. Pino[1], M. Schmidt[1], D. Radic[1], *[1]Pontificia Universidad Católica de Chile, Chile*
P1.9	**Chemical modification of poly(vinyl chloride) with amino acids to altering surface wettability** C. Sandoval*[1], M.D. Urzúa[1], *[1]Universidad de Chile, Chile*
P1.10	**New interest in "old" materials: Poly(dehydroalanine)s as a versatile class of polyelectrolytes** F.H. Schacher*[1], U. Freier[1], A. Boehm[1], M. Böhme[1], *[1]Friedrich-Schiller-University Jena, Germany*
P1.11	**Well-defined hybrid au-nanoparticles with a diblock copolymer shell: Preparation and crosslinking by thiol-ene chemistry** F.H. Schacher*[1], C. Hörenz[1], T. Rudolph[1], M.J. Barthel[1,2], T. Majdanski[1], U.S. Schubert[1,2], *[1]Friedrich-Schiller-University Jena, Germany, [2]Dutch Polymer Institute, The Netherlands*
P1.12	**Modifying ancillary and reactive ligands of Ni catalysts for chain-growth synthesis of conjugated polymers** S.R. Lee*[1], A.J. McNeil[1], *[1]University of Michigan, USA*
P1.13	**Carbonized glass fibre as reinforcement of polymer composites** Z. Foltynowicz*[1], W. Urbaniak[2], D. Marks[2], S. Zajchowski[2], K. Piszczek[2], *[1]Poznan University of Economics, Poland, [2]University of Technology and Life Sciences in Bydgoszcz, Poland*
P1.14	**Photopolymerization of innovative acrylic hydrogels modificated by nanogold particles** J. Ortyl*[1], K. Bialik-Was[2], B. Tyliszczak[2], A. Kupiec-Sobczak[3], Z. Czech[4], *[1]Cracow University of Technology, Department of Biotechnology and Renewable Materials, Poland, [2]Cracow University of Technology, Department of Chemistry and Technology of Polymers, Poland, [3]Cracow University of Technology, Institute of Inorganic Chemistry and Technology, Poland, [4]West Pomeranian University of Technology, Poland*

P1.15	**The newly developed iodonium photoinitiators for cationic photopolymerization of monomers** J. Ortyl*[1], R. Popielarz[1], [1]*Cow University of Technology, Poland*
P1.16	**Phase compatibility and mechanical property enhancement in PLA/PBS blends** S. Phattanarudee*[1], W. Charoenpanich[1], [1]*Chulalongkorn university, Thailand*
P1.17	**New multiarm star based on aromatic hyperbranched polyester core and poly(e-caprolactone) arms as toughness modifiers of epoxy thermosets** A. Tomuta[1], X. Fernández-Francos[1], F. Ferrando[2], A. Serra[1], X. Ramis*[3], [1]*Department of Analytical and Organic Chemistry, Universitat Rovira i Virgili, Spain,* [2]*Department of Mechanical Engineering, Universitat Rovira i Virgili, Spain,* [3]*Universitat Politècnica de Catalunya, Spain*
P1.18	**Tensile strength properties of underground support liners** D. Guner[1], H. Ozturk*[1], [1]*METU, Turkey*
P1.19	**The carbonization of aniline oligomers** Z. Moravkova*[1], M. Trchova[1], J. Stejskal[1], [1]*Academy of Sciences of the Czech Republic, Czech Republic*
P1.20	**Multi-stimuli responsibility of a novel fluorescent probes based on pyrene terminated PPDO-b-PEG diblock copolymer** G. Wu[1], C.L. Liu[1], H. Wang[1], S.C. Chen*[1], Y.Z. Wang[1], [1]*Sichuan University, China*
P1.21	**Self-assembled polycontinuous chiral networks in 3-miktoarm star terpolymer blends** J.J.K. Kirkensgaard*[1], M. Evans[2], S. Hyde[3], [1]*University of Copenhagen, Denmark,* [2]*University of Erlangen, Germany,* [3]*Australian National University, Australia*
P1.22	**Exploring the mechanism of RNA disassembly in tobacco mosaic virus using single-molecule force spectroscopy** N. Liu[1], Y. Lin[2], Q. Wang[2,3], Z. Su[2], W. Zhang*[1], J. Shen[1], [1]*Jilin University, China,* [2]*Changchun Institute of Applied Chemistry, China,* [3]*University of South Carolina, USA*
P1.23	**Detection of volatile organic compounds using MWNT-PEI/conducting polymer nanocomposites** M. Kim[1], Y. Kim*[1], [1]*Inje University, Republic of Korea*
P1.24	**Enhancement of the impact strength of cationically cured cycloaliphatic diepoxide by adding hyperbranched poly(glycidol) partially modified with 10-undecenoyl chains** M. Flores[1], M. Morell[1], X. Fernández-Francos*[1], F. Ferrando[1], X. Ramis[2], A. Serra[1], [1]*Universitat Rovira i Virgili, Spain,* [2]*Universitat Politècnica de Catalunya, Spain*
P1.25	**Microwave enhanced synthesis of nanofibrillar polyanilines for sensor applications** M. Gizdavic-Nikolaidis*[1,2], M. Jevremovic[3], C. Goncalves[4], J.L. Wojkiewicz[5,6], S. Ray[1], D. Stanisavljev[2], [1]*The University of Auckland, New Zealand,* [2]*Faculty of Physical Chemistry, Serbia,* [3]*Nuclear Facilities of Serbia, Serbia,* [4]*Université Paris Sud 11, France,* [5]*Université Lille Nord de France, France,* [6]*Ecole Nationale Supérieure des Mines de Douai, France,* [7]*Institute of General and Physical Chemistry, Serbia*
P1.26	**Blend electrospinning of polycaprolactone/chitosan nanofibres** I. Steyaert*[1,2], L. Van der Schueren[1], H. Rahier[2], K. De Clerck[1], [1]*Ghent University, Belgium,* [2]*Vrije Universiteit Brussel, Belgium*
P1.27	**Silica/polymer hybrid nanotubes by surface-graft precipitation polymerization** G.L. Li*[1], H. Möhwald[1], D.G. Shchukin[1], [1]*Max-Planck Institute of Colloids and Interfaces, Germany*
P1.28	**Unexpected differences between thermal and photoinitiated cationic curing of a DGEBA modified with a multiarm star poly(styrene)-b-poly(ε-caprolactone) polymer** J.M. Morancho[1], A. Cadenato[1], X. Ramis*[1], M. Morell[2], X. Fernández-Francos[2], A. Serra[2], [1]*Universitat Politècnica de Catalunya, Spain,* [2]*Universitat Rovira i Virgili, Spain*
P1.29	**Luminescent polymer coatings with "clicked" platinum porphyrin for oxygen sensor application** T. Hyakutake*[1], I. Nishizaki[1], T. Michinobu[2], [1]*Public Works Research Institute, Japan,* [2]*Tokyo Institute of Technology, Japan*

P1.30	**Layer-by-layer assembled nanocomposite films based on hydrophobic inorganic nanoparticles in organic media** Y. Ko[1], Y. Kim[1], M. Yoon[1], J. Bang[1], J. Cho*[1], *[1]Korea University, Republic of Korea*
P1.31	**New hybrid materials containing in situ generated silica particles based on thiol-ene crosslinking using hyperbranched polymers as macromonomers** M. Flores[1], A. Serra*[1], X. Ramis[1], M. Sangermano[1,2], D. Foix[1,2], *[1]Universitat Politécnica de Catalunya, Spain, [2]Politecnico di Torino, Italy*
P1.32	**Phosphonoethylated polyglycidols - A platform for tunable enzymatic grafting density** J. Köhler*[1], H. Keul[1], M. Möller[1], *[1]RWTH Aachen University, Germany*
P1.33	**Carrageenan based formulations for biopolymer-electrolytes compounding** S. Ramesh*[1], R. Shanti[1], K. Ramesh[1], *[1]University of Malaya, Malaysia*
P1.34	**Epoxy-graphenje UV-cured nanocomposites** M. Sangermano*[1], M. Martin-Gallego[2], M. Verdejo[2], M.A. Lopez-Manchado[2], *[1]Politecnico di Torino, Italy, [2]Instituto de Ciencia y Tecnología de Polímeros, CSIC, Spain*
P1.35	**Nanosphere templated continuous PEDOT:PSS films with low percolation threshold for application in efficient polymer solar cells** B.J. Kim*[1], D.J. Kang[1], H.B. Kang[1], K.H. Kim[1], *[1]KAIST, Republic of Korea*
P1.36	**Highly tunable amphiphilic polymer nanocapsules for cancer treatment** P. Rocas-Alonso[1,4], F. Albericio[2,3], J. Rocas[4], *[1]Barcelone Science Park, Spain, [2]Institute for Research in Biomedicine of Barcelone, Spain, [3]University of Barcelone, Spain, [4]Ecopol Tech SL, Spain*
P1.37	**Crystallization behavior of poly(e-caprolactone)/polyhedral oligomeric silsesquioxanes nanocomposites** M.J. Fernández*[1], M.D. Fernández[1], J. Ramos[1], D. Guzmán[1], M. Cobos[1], *[1]University of the Basque Country, Spain*
P1.38	**Preparation and properties of nanocomposites based on poly(e-caprolactone) and polyhedral oligomeric silsesquioxanes** M.D. Fernández*[1], M.J. Fernández[1], J.R. Ramos[1], D.J. Guzmán[1], *[1]University of the Basque Country, Spain*
P1.39	**Analytical prediction of molecular weight variation of bioabsorbable matrix in composites due to hydrolysis** S. Kobayashi*[1], S. Yamaji[1], *[1]Tokyo Metropolitan University, Japan*
P1.40	**Polyoxometalate hybrid supramolecular polymers** Z. He[1], H. Li*[1], L. Wu[1], *[1]Jilin University, China*
P1.41	**Increased stiffness upon hydration in random copolymers with hydrophobic segments and hydrophilic blocks** F. Bedoui*[1], L.K. Widjaja[2], A. Luk[2], D. Bolikal[2], N.S. Murthy[2], J. Kohn[2], *[1]Universtsité de Technologie de Compiègne, France, [2]Rutgers University, USA*
P1.42	**Amorphous phase confinement in semi-crystalline polymerMechanical and physical quantification using combined DSC, SAXS and DMA experimentsCase of PET and PLA** T.L. Nguyen[1], F. Bedoui*[1], P.E. Mazeran[1], M. Guigon[1], *[1]Université de Technologie de Compiègne, France*
P1.43	**Inverse gas chromatography charecterization of (1,5- Naphtalenedisulfonic acid, polyaniline- PANI, NDSA) complex** A. Mekki*[1], B. Mettai[1], N. Fodil Cherif[1], Z. Ihdene[1], R. Mahmoud[1], Z. Mekhalif[2], *[1]EMP, Algeria, [2]FUNDP, Belgium*
P1.44	**Radiation synthesis of nanosilver/gelatin/PVA hydrogel for biomedical application** N. Leawhiran*[1], P. Pavasant[2], K. Soontornvipart[3], P. Supaphol[4], *[1]Faculty of Engineering, Chulalongkorn University, Thailand, [2]Faculty of Dentistry, Chulalongkorn University, Thailand, [3]Faculty of Veterinary Science, Chulalongkorn University, Thailand, [4]The Petroleum and Petrochemical College, Chulalongkorn University, Thailand*
P1.45	**Self- and cross-nucleation in isotactic poly(1-butene): Obeying and defying ostwald's rule of stages** D. Cavallo*[1], L. Gardella[2], G.C. Alfonso[2], A.J. Muller[3], *[1]Eindhoven University of Technology, The Netherlands, [2]University of Genova, Italy, [3]University of Caracas, Venezuela*

P1.46	**Plastic deformation kinetics of isotactic polypropylene polymorphs** D. Cavallo*[1], H. Caelers[1], E. Parodi[2], G.W. Peters[1], L. Govaert[1], *[1]Eindhoven University of Technology, The Netherlands, [2]University of Genova, Italy*
P1.47	**Kinetics of PVDF radiative defluorination** V.M. Morilova[1], D.A. Zherebtsov[2], S.E. Evsyukov[3], I.V. Gribov[4], N.A. Moskvina[4], L.A. Pesin*[5], *[1]Snezhinsk Physics and Technology Institute, Russia, [2]South Urals State University, Russia, [3]Evonik Industries AG, Germany, [4]RAS, Russia, [5]Chelyabinsk State Pedagogical University, Russia*
P1.48	**Nonlinear mechanical response in angle-plied carbon fiber epoxy composite laminates** S. Ogihara*[1], H. Nakatani[1], *[1]Tokyo University of Science, Japan*
P1.49	**Preparation of photoactive polymers and postmodification via nitroxide trapping under UV irradiation** A. Mardyukov*[1], A. Studer[1], *[1]University of Münster, Germany*
P1.50	**Effect of electric field strength on the dielectrophoresis force and the electrostrictive strain of thermoplastic elastomer polyurethanes** K. Petcharoen*[1], A. Sirivat[1], *[1]The Petroleum And Petrochemical College, Thailand*
P1.51	**Photo-cleavable cross-linked nanoporous templates with high aspect ratios using silicon-containing block copolymers and dual responsive photoresists** C.H. Bak*[1], G.C. Jo[1], K.O. Jung[1], S.Y. Choi[1], J.B. Kim[1], *[1]KAIST, Republic of Korea*
P1.52	**Fabrication of versatile nanoporous templates with high aspect ratiosby incorporation of Si-containing block copolymers into the lithographicbilayer system** S.M. Kim[1], S.J. Ku[1], G.C. Jo*[1], C.H. Bak[1], J.B. Kim[1], *[1]KAIST, Republic of Korea*
P1.53	**Dually patterned self-assembled monolayers via silicon-containing block copolymer lithography on gold substrates and their applications** S.A. Woo[1], S.Y. Choi*[1], C.H. Bak[1], G.C. Jo[1], J.B. kim[1], *[1]KAIST, Republic of Korea*
P1.54	**Competitive adsorption of heavy-metal ions from aqueous solution by aminatated polyacrylonitrile nanofiber mats** P. Kampalanonwat*[1], P. Supaphol[1], *[1]Chulalongkorn University, Thailand*
P1.55	**Synthesis of nano-particulate core-shell polyelectrolyte by surfactant-assisted precipitation polymerization** D.J. Lin*[1], Y.C. Chang[1], L.P. Cheng[1], C.L. Lin[1], *[1]Tamkang University, Taiwan*
P1.56	**The morphology and properties of wood-polymer-inorganic hybrid nanocomposite (WPINC) prepared by in-situ incorporation of nano-SiO_2 into polymer formed from monomers within wood porous structure** Y. F. Li*[1,2], Q. L. Fu[1], X. Y. Dong[1,2], Y. X. Liu[1], Z. Sun[3], *[1]Northeast Forestry University, China, [2]Shandong Agricultural University, China, [3]Harbin University of Science and Technology, China*
P1.57	**Synthesis and characterizations of poly(o-toluidine) as electrochromic material** J. Pinit*[1], A. Sirivat[1], *[1]The Petroleum and Petrochemical College, Bangkok, Thailand*
P1.58	**Silk fibroin/polycarbazole composite as artificial muscle** T. Srisawasdi*[1], A. Sirivat[1], A.M. Jamieson[2], *[1]The Petroleum and Petrochemical College, Bangkok, Thailand, [2]Case Western Reserve University, USA*
P1.59	**Polythiophene/carrageenan hydrogel as drug release matrix under electric field** S. Pairatwachapun*[1], A. Sirivat[1], *[1]The Petroleum and Petrochemical College, Bangkok, Thailand*
P1.60	**Synthesis of hollow polymeric nanoparticles *via* inverse miniemulsion periphery RAFT polymerization** R.H. Utama*[1], P.B. Zetterlund[1], M.H. Stenzel[1], *[1]University of New South Wales, Australia*
P1.61	**Sulfonated poly(2,6-dimethyl-1,4-phenylene oxide) composite membranes filled by zeolite for direct methanol fuel cell** P. Kotaphan*[1], A. Sirivat[1], J. Schwank[2], *[1]The Petroleum and Petrochemical College, Bangkok, Thailand, [2]University of Michigan, USA*

P1.62	**Poly(3-hydroxybutyrate)/magnetite composite nanofibers via combining electrospinning technique with the ammonia gas-enhancing *in situ* co-precipitation method: Preparation and their potential use in biomedical application** P. Sangsanoh*[1], P. Supaphol[1], [1]*The Petroleum and Petrochemical College, Thailand*
P1.63	**Brush like polymer-encapsulated ceramics nanoparticles produced by living radical polymerizations with sequential addition of monomers** T. Arita*[1], [1]*Tohoku University, Japan*
P1.64	**Development of poly(para-phenylene)/poly(ε-caprolactone) as electroactive shape memory composite** N. Charoonrak*[1], A. Sirivat[1], [1]*The Petroleum and Petrochemical College, Bangkok, Thailand*
P1.65	**Polymer based nanocomposites for aerospace industry** P. Latko*[1], R. Kozera[1], A. Boczkowska[1], [1]*Warsaw University of Technology, Poland*
P1.66	**Cyclocarbonates, building blocks for non isocyanate polyurethans** C. Loubat*[1], G. Boutevin[1], [1]*Specific Polymers, France*
P1.67	**Supramolecular epoxy thermosets based on cyclodextrin complexes** G. González-Gaitano*[1], G. Tardajos[3], J.C. Flores[2], J. González-Benito[2], [1]*Universidad de Navarra, Spain,* [2]*Universidad Carlos III, Spain,* [3]*Universidad Complutense, Spain*
P1.68	**CVD-based surface modification strategies for the generation of multifunctional surfaces via "click" chemistry** A.M. Ross*[1,2], H. Durmaz[2], K. Cheng[2], C. Friedmann[1], X. Deng[2], J. Lahann[1,2], [1]*Karlsruhe Institute of Technology, Germany,* [2]*University of Michigan Ann Arbor, USA*
P1.69	**Bio-polymer performance in automotive and industrial composite structures** M. Linde[1], T. Omonov[1], J. Curtis[1], P. Mertiny*[1], [1]*University of Alberta, Canada*
P1.70	**A novel soap-free miniemulsion polymerization system constructed by reverse atom transfer radical polymerization** G.H. Zhu[1], J. Cao[1], L.F. Zhang[1], Z.P. Cheng*[1], X.L. Zhu[1], [1]*Soochow University, China*
P1.71	**Tuning of heavy metal removal efficiency from water via micro algae/hydrogel composites** N. Nugay[1], T. Nugay[1], S. Sen[1], E. Helvacioglu[1], D. Aydinoglu[1], [1]*Bogazici University, Turkey*
P1.72	**Structure and properties of short carbon fiber reinforced UHMWPE-matrix composites** D.I. Chukov*[1], A.A. Stepashkin[1], V.V. Tcherdyntsev[1], S.D. Kaloshkin[1], [1]*National University of Science and Technology, Russia*
P1.73	**Towards a molecular level understanding of the diffusion mechanism of methanol in polyimides: An FTIR study aided by first principles (DFT) calculations** P. Musto*[1], M. Pannico[1], M. Galizia[2], G. Mensitieri[2], [1]*National Research Council of Italy, Italy,* [2]*University of Naples "Federico II", Italy*
P1.74	**Nanocomposites PMMA-MWCNT and PMMA-MWCNT-HA obtained by ultrasonic radiation** C. Albano*[1], G. Gonzalez[1], A. Karam[1], M. Perez[1], [1]*universidad Central de Venezuela, Venezuela*
P1.75	**Spontaneous polymerization mechanism of 7,7-dicyanoquinone methide with various monomers** H. Kawakita*[1], U. Thran Thi[1], T. Uno[1], T. Itoh[1], K. Hirai[1], A. Kajiwara[2], [1]*Mie University, Japan,* [2]*Nara University of Education, Japan*
P1.76	**Processing, characterization and modelling of recycled polymer-matrix composites** M.A. AlMaadeed*[1], Y.M. Shabana[2], N. Khanam[1], [1]*Qatar University, Qatar,* [2]*Helwan University, Egypt*
P1.77	**Study of the reaction, stability, thermodynamic and kinetic parameters of a lipase immobilized onto pectin from *Solanum lycocarpum* replacing Arabic gum in the lipase assay** K.A. Batista[1], G.L. Alves[1], L.L.A. Purcena[1], K.F. Fernandes*[1], [1]*Universidade Federal de Goiás, Goiânia-GO, Brazil*

P1.78	**Selective deposition of nano-materials on alternating block copolymer domains** M. Ben-Lulu[1], A.H.E. Mueller[2], R. Shenhar*[1], *[1]Hebrew University of Jerusalem, Israel, [2]University of Mainz, Germany*
P1.79	**Bio-based aliphatic polyesters from succinic acid and bicyclic D-mannitol** C. Lavilla*[1], A. Alla[1], A. Martínez de Ilarduya[1], S. Muñoz-Guerra[1], *[1]Universitat Politècnica de Catalunya, Spain*
P1.80	**Hybrid supramolecular liquid crystals from surfactant/polyoxometalate complex assembly** J. Zhang[1], W. Li*[1], S.Y. Yin[1], J.F. Li[1], L.X. Wu[1], *[1]Jilin University, China*
P1.81	**Effect of NR-g-PMMA ib mechanical properties of PLA/NR thermoplastic elastomer** V. Tanrattanakul*[1], P. Bunkaew[1], *[1]Prince of Songkla University, Thailand*
P1.82	**Molecular dynamics simulation of fiber formation and large deformation of the fiber** T.Y. Yamamoto*[1], *[1]Yamaguchi University, Japan*
P1.83	**Wall slip of polymers: Molecular effects** M.A. Ansari*[1], S.G.H. Hatzikiriakos[1], *[1]University of British Columbia, Canada*
P1.84	**Controlled self-assembly of bola-amphiphiles: From one-dimensional to diverse two-dimensional structures** G.L. Wu*[1], Z.Q. Wang[1], X. Zhang[1], *[1]Tsinghua University, China*
P1.85	**Hierarchical structuring in block copolymer nanocomposites through two phase separation processes operating on different time scales** E. Ploshnik[1], K.M. Langner[2], A. Halevi[1], M. Ben-Lulu[1], A.H.E. Mueller[3], J.G.E.M. Fraaije[2], G.J.A. Sevink[2], R. Shenhar*[1], *[1]Hebrew University of Jerusalem, Israel, [2]Leiden University, The Netherlands, [3]University of Mainz, Germany*
P1.86	**Modification of disposal screen-printed carbon electrode surfaces with conductive electrospun nanofiber for biosensor applications** P. Ekabutr*[1], P. Supaphol[1], O. Chailapakul[1], *[1]Chulalongkorn University, Thailand*
P1.87	**A novel method for studing the kinetics of formation of permselective polyamide layer in Thin Film Composite membrabnes** S. Behera*[1], A.K. Suresh[1], *[1]IIT Bombay, India*
P1.88	**Periodically ordered nano-hetero inorganic structures from self-assembled block copolymer composites** H. Wakayama*[1], H. Yonekura[1], Y. Kawai[1], *[1]Toyota Central R&D Laboratories, Inc., Japan*
P1.89	**Chain extension reactions of unsaturated polyesters with diisocyanate molecules** E. Taylan*[1], E. Oktay[1], S.H. S.H. Küsefoğlu[1], *[1]Boğaziçi University, Turkey*
P1.90	**Water and dye sorption characteristics of novel semi IPNs: Acrylamide/2-acrylamido-2-methyl-1-propansulfonic acid/CMC/clay composite hydrogels** E. Karadag*[1], A. Nalbantoglu[1], S. Kundakci[1], O.B. Üzüm[1], *[1]Adnan Menderes University, Turkey*
P1.91	**Equilibrium swelling studies of novel acrylamide/(3-acrylamidopropyl)trimethylammonium chloride/PVA semi IPN hydrogels crosslinked by EGDMA** E. Karadag*[1], G. Çetin[1], S. Kundakci[1], O.B. Üzüm[1], *[1]Adnan Menderes University, Turkey*
P1.92	**Construction of micro-/nano-structured shape memory polymer and the responsive study** X.Y. Cao*[1], J.N. Zhang[1], Y. Ma[1], H.L. Chen[1], L. Jiang[1], *[1]CAS, China*
P1.93	**Novel strategy to fabricate ordered bridged silsesquioxanes** Q.Z. Zhu*[1], R.F. Hu[1], W.K. Chen[1], *[1]Shandong University, China*
P1.94	**Study of the properties of the hydrogen bond of macromolecular solutions** S.M. Benhamou*[1], *[1]National Superior School of Public Works, Algeria*

P1.95	**Visco- and linear elastic behaviour of polypropylene-based ferroelectret films** V. Bovtun*[1,2], W. Stark[1], M. Gaal[1], M. Kreutzbruck[1], A. Erhard[1], Y. Yakymenko[3], *[1]Federal Institute for Materials Research and Testing, Berlin, Germany, [2]Institute of Physics ASCR, Prague, Czech Republic, [3]NTUU,Kyiv, Ukraine*
P1.96	**Comb-type methylsiloxane oligomers with various ester side groups** T. Tatrishvili*[1], O. Mukbaniani[1], *[1]Iv. Javakhishvili Tbilisi State University, Georgia*
P1.97	**Polymer-based nanowires of ZnO/Cds by template synthesis: From prepration to application in solar cell** M. Mujahid*[1], T.A. Hanafy[1], R. Khalil[1], N. Shahab[1], O. A. Al-Hartomy[1], *[1]University of Tabuk, Saudi Arabia*
P1.98	**polymer based Bi nanowire for energy conservation** O. A. Al-Hartomy*[1], M. Mujahid[1], R. Khalil[1], T. A. Hanafy[1], *[1]University of Tabuk, Saudi Arabia*
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P1.190	**The reactive compatibilization of polycarbonate and poly(methyl methacrylate) blends induced by the transesterification catalyst** A. Bunleechai*[1], R. Kunanuruksapong[2], H. Manuspiya[1], *[1]TChulalongkorn University, Thailand, [2]PTT Phenol Co., Ltd., Thailand*
P1.191	**Effect of surface modification routes on dielectric behaviors of composites for microwave frequency applications** S. Wongwilawan*[1], H. Ishida[2], H. Manuspiya[1], *[1]Chulalongkorn University, Thailand, [2]Case Western Reserve University, USA*
P1.192	**The influence of reactive compatibilizers on morphology and molecular weight of PC/PLA blends** S. Thissina*[1], P. Sornthummalee[2], H. Manuspiya[1], *[1]Chulalongkorn University, Thailand, [2]PTT Phenol Co., Ltd., Thailand*
P1.193	**One-pot syntheses of poly(tetrahydrofuran-*co*-ε-caprolactone)-*b*-poly(ε-caprolactone) catalyzed by lutetium triflates in the presence of propylene oxide** J. Ling*[1], L. You[1], *[1]Zhejiang University, China*
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P2.1	**The colorimetric film fabricated by mixed-dyes modified porous clay heterostructure for monitoring fruit freshness** S. Ruanpan*[1], R. Magaraphan[1,2], H. Manuspiya[1,2], *[1]Chulalongkorn University, Thailand, [2]Center of Excellence on Petrochemical and Materials Technology, Thailand*
P2.2	**Deposition processes for the protection of metallic substrates against corrosion** F. Khelifa[1], S. Ershov[1], M.E. Druart[1], Y. Habibi*[1], F. Benard[1], R. Snyders[1], M. Olivier[1], Ph. Dubois[1], *[1]University of Mons, Belgium*
P2.3	**Preparation and characterization of doxorubicin Hcl loaded chitosan nanoparticles prepared by W/O emulsion method** H. Modi*[1], M. Shrimanker[1], K. Patel[1], R. Dave[1], *[1]Saraswati Institute of pharmaceutical Sciences, India*
P2.4	**Barrier properties and overall migration of hydrogenated amorphous carbon layer coating PLA films** E. Fortunati*[1], S. Mattioli[1], M. Peltzer[3], I. Armentano[1], A. Jiménez[3], J.M. Kenny[1,2], *[1]University of Perugia, Italy, [2]CSIC, Spain, [3]University of Alicante, Spain*
P2.5	**Surfaces of temperature-responsive (co)poly(2-oxazoline)s – A way to cell sheet engineering** N. Oleszko*[1], A. Utrata-Wesolek[1], W. Walach[1], B. Trzebicka[1], A. Dworak[1], A. Sieron[2], *[1]Polish Academy of Sciences, Poland, [2]Medical University of Silesia, Poland, [3]Centre for Burn Treatment, Poland*
P2.6	**Preparation and characterization of modified cellulose as a biodegradable separator membrane application** S. Thiangtham*[1], H. Manuspiya[1], *[1]Chulalongkorn University, Thailand*
P2.7	**Admicellar polymerization of PMPS on natural rubber particles** S. Sriyapai*[1], R. Magaraphan[1], *[1]Chulalongkorn University, Thailand*

P2.8	**Characterization of silver/clay nanoparticles polypropylene nanocomposite films fabricated by a cold plasma technique** S. Suyjiw*[1], R. Magaraphan[1], *[1]Chulalongkorn University, Thailand*
P2.9	**Preparation of silk-sericin/pva/clay aerogel crosslinked by glutaraldehyde for biotechnological application** S. Likitamporn*[1,2], R. Magaraphan[1], *[1]The Petroleum and Petrochemical College, Chulalongkorn University, Thailand, [2]Center of Excellence on Petrochemical and Materials Technology , Chulalongkorn University, Thailand*
P2.10	**Fabrication of polythiophene/ZnO hybrid dye-sensitized solar cell that sensitized with noni leaves and sappan wood** J. Joothamongkhon*[1], R. Magaraphan[1], *[1]Chulalongkorn University, Thailand*
P2.11	**Isothermal cure of tri-functional epoxy-clay nanocomposites: Effect of cure temperature on the nanostructure and thermal properties** F. Shiravand[1], J.M. Hutchinson*[1], Y. Calventus[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.12	**Polyketoesters from oleic acid. Synthesis and functionalization** M. Moreno[1], G. Lligadas[1], J.C. Ronda[1], M. Galià*[1], V. Cádiz[1], *[1]URV, Spain*
P2.13	**Synthesis of amphiphilic block copolymers with free thiol groups in side chains** E. Hrsic*[1], H. Keul[1], M. Möller[1], *[1]RWTH Aachen University, Germany*
P2.14	**Cationic initiation of homopolymerisation in the intra-gallery regions of tri-functional epoxy polymer layered silicate nanocomposites** F. Shiravand[1], J.M. Hutchinson*[1], Y. Calventus[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.15	**Synthesis of polyether polyols using aminophosphonate as initiator** M.M. Velencoso*[1], M.J. Ramos[1], A. Lucas[1], J.F. Rodriguez[1], *[1]University of Castilla-La Mancha, Spain*
P2.16	**Flame retardant polybenzoxazine foams based on renewable diphenolic acid and phosphorus compounds** C. Zuñiga*[1], G. Lligadas[1], J.C. Ronda[1], M. Galià[1], V. Cádiz[1], *[1]URV, Spain*
P2.17	**Biodegradable polyurethane PU(TEG-HMDI) employed as a matrix forming excipient for controlled theophylline delivery** C. Ferris Villanueva[1], M.V. De Paz Báñez*[1], M.D. Campiñez[1], I. Caraballo[1], J.A. Galbis Pérez[1], *[1]University of Seville, Spain*
P2.18	**Synthesis of hyperbranched polymers by visible light initiated radical polymerization** S. Bektas*[1], M. Ciftci[1], Y. Yagci[1], *[1]Istanbul Technical University, Turkey*
P2.19	**Novel eco-friendly poly(butylene/triethylene cyclohexandicarboxylate) random copolyesters designed as potential candidates for food packaging** M. Gigli*[1], N. Lotti[1], M. Gazzano[2], V. Siracusa[3], L. Finelli[1], A. Munari[1], *[1]University of Bologna, Italy, [2]CNR, Italy, [3]University of Catania, Italy*
P2.20	**Morphology, thermal and mechanical properties of PLA/ modified EVA blends compatibilized by reactive compatibilizer** J. Vipachon*[1], R. Magaraphan[1], *[1]The Petroleum and Petrochemical College, Thailand*
P2.21	**Acrylate and thiol based highly porous polymers by emulsion templating** M.S. Sušec*[1,2], S.C.L. Ligon[3], R.L. Liska[3], P.K. Krajnc[2,1], G.R. Russmüller[4], *[1]Centre of Excellence Polimat, Slovenia, [2]University of Maribor, Slovenia, [3]Vienna University of Technology, Austria, [4]Medical University of Vienna, Austria*
P2.22	**Poly(ester-amide)s derived from PET with *m*-xylylene adipamide units** Y. Ascanio[1], A. Martinez de Ilarduya*[1], A. Alla[1], A. Andrio[2], V. Compañ[3], S. Muñoz-Guerra[1], *[1]Universitat Politècnica de Catalunya, Spain, [2]Universitat Jaume I, Spain, [3]Universidad Politécnica de Valencia, Spain*

P2.23	**Biocompatibility of well-defined concentrated polymer brushes prepared by surface-initiated living radical polymerization** C. Yoshikawa*[1], J. Qiu[2], C. Huang[1], Y. Shimizu[1], S. Hattori[1], H. Kobayashi[1], *[1]National Institute for Materials Science, Japan, [2]DSM, The Netherlands*
P2.24	**Preparation and characterization of polylactide and epoxidized natural rubber compounding** S. Pairote*[1], R. Magaraphan[1], *[1]The Petroleum and Petrochemical College, Thailand*
P2.25	**Biodegradable polyurethanes derived from alditols with potential use as drug delivering systems** B. Begines*[1], F. Zamora[1], M.V. De Paz[1], J.A. Galbis[1], *[1]University of Seville, Spain*
P2.26	**3, 4-dihydroxyphenylalanine (DOPA) containing polymers synthesized from different precursors** J. Yang*[1], M. Kamperman[1], M.A. CohenStuart[1], *[1]Wageningen University, The Netherlands*
P2.27	**Improvement of polyolefine processing combing high-shear processing and γ-irradiation:"New route for polyolefine recycling"** E. Fel*[1], V. Massardier[1], F. Melis[1,2], P. Cassagnau[1,2], *[1]IMP@INSA, France, [2]IMP@Lyon1, France*
P2.28	**Biodegradable nanoparticles from sugar-based polyurethanes for drug delivery** B. Begines*[1], M.V. De Paz[1], C. Ferris[1], J.A. Galbis[1], *[1]University of Seville, Spain*
P2.29	**Novel biodegradable and biocompatible poly(butylene cyclohexandicarboxylate/diglycolate) random copolyesters with adjustable properties for controlled drug release** M. Gigli*[1], M. Vercellino[2], N. Lotti[1], L. Visai[2,3], A. Munari[1], *[1]University of Bologna, Italy, [2]University of Pavia, Italy, [3]Salvatore Maugeri Foundation, Italy*
P2.30	**High shear processing and γ-irradiation open new routes for polymer recycling.** E. Fel*[1], V. Massardier[1], L. Molka[1], *[1]IMP@INSA, France*
P2.31	**New hydrogels based on covalently linked modified gelatin and polyacrylamide** A. Serafim*[1], D.M. Dragusin[1], D.S. Vasilescu[1], P. Dubruel[2], I.C. Stancu[1], *[1]University Politechnica of Bucharest, Romania, [2]University of Ghent, Belgium*
P2.32	**Study on the crystallization behaviour of poly(butylene succinate-co-butylene azelate) copolymers** A. Díaz*[1], M.T. Casas[1], L. Franco[1], J. Puiggalí[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.33	**Self-assembly phase diagrams of diblock copolymers of poly(dimethylsiloxane)-block-poly(2-methyl-2-oxazoline)** D.L. Wu*[1], W. Meier[1], *[1]University of Basel, Switzerland*
P2.34	**Biocompatible and biodegradable polyurea-polurethane nano-microcapsules formed via interfacial polymerization with high antioxidative properties** B. Solé[1], P. Rocas-Alonso*[1,2], J. Rocas[1], *[1]Barcelone Science Park, Spain, [2]Ecopol Tech SL, Spain*
P2.35	**Development of a generic protocol for the synthesis of conjugated polymer/nanoparticle hybrids** F. Monnaie*[1], G. Koeckelberghs[1], *[1]KU Leuven, Belgium*
P2.36	**Bending behavior of a semicrystalline polymer** C.N. Panagopoulos[1], M.F. Sapouna*[1], H.P. Kyriakopoulou[1], *[1]National Technical University of Athens, Greece*
P2.37	**Bionanocomposites from cyclodextrin-modified BaTiO3 and block copolymers of PEO and PPO** G. González-Gaitano*[1], R. Serra-Gómez[1], J. González-Benito[2], *[1]Universidad de Navarra, Spain, [2]Universidad Carlos III, Spain*
P2.38	**Influence of molecular masses of polyethylene glycol on chemical structure of amphipathic poly (aliphatic/aromatic ester-amide-ether)s** J. Gajowy[1], M. El Fray*[1], *[1]Szczecin University of Technology, Poland*
P2.39	**Multiple-channel IPN biostable polymer scaffolds for tissue engineering** L. Santos-Esteve*[1], A. Berna[1], *[1]Universitat de València, Spain*

P2.40	**DCPD metathesis polymerization with thermally-switchable ruthenium carbene catalysts based on of 2-vinylbenzylamine** V. Afanasiev*[1], T. Yumasheva[1], D. Cheredilin[1], D. Zemtsov[1], N. Bespalova[1], *[1]LLC "RN-RD Centre", Russia*
P2.41	**Controlling cellulose derivative properties in pharmaceutical applications** S. Schantz*[1], *[1]AstraZeneca R&D, Mölndal, Sweden*
P2.42	**Thermooxidative ageing of SBR/organoclay nanocomposites stabilized by a phenolic antioxidant** R. Bellas[1], C. Ramírez*[1], J. Díez[1], M. Rico[1], J. López[1], *[1]Universidade da Coruña, Spain*
P2.43	**Flame retardancy and thermal properties of HDPE/POSS composites** R. Bouza[1], C. Ramírez*[1], R. Bellas[1], B. Montero[1], L. Barral[1], *[1]Universidade da Coruña, Spain*
P2.44	**Preparation of polystyrene grafted silica nanoparticles via reversible chain transfer catalyzed polymerization (RTCP)** H. Afsharian-Moghaddam*[1], V. Haddadi-Asl[1], *[1]Amirkabir University of Technology, Iran*
P2.45	**Preparation and characterization of transparent nanocomposite films of bacterial cellulose/acrylic resin** K. O-Rak*[1], S. Ummartyotin[2], M. Sain[2], H. Manuspiya[1], *[1]Chulalongkorn University, Thailand, [2]University of Toronto, Canada*
P2.46	**Study on the hydrolytic degradation of a segmented copolymers constituted by polyglycolide hard segments and a middle poly(glycolide-*co*-trimethylene carbonate-*co*-caprolactone) soft segment (Monosyn®)** Y. Márquez*[1], L. Franco[1], A. Rodríguez-Galán[1], J. Puiggalí[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.47	**Gold nanoparticles-in-polymersome nanovehicles for controlled drug delivery** T.M. Popescu[1], C. Tsitsilianis*[1,2], *[1]University of Patras, Greece, [2]ICEHT, Greece*
P2.48	**Study on the crystallization of segmented copolymers constituted by polyglycolide hard segments and poly(glycolide-*co*-trimethylene carbonate-*co*-caprolactone) soft segments** Y. Márquez*[1], L. Franco[1], J. Puiggalí[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.49	**Tuning the morphology of glycidyl methacrylate polyHIPEs** S.H. Huš*[1], M.K. Kolar[1], A.P. Podgornik[2,3], P.K. Krajnc[1], *[1]University of Maribor, Faculty of Chemistry and Chemical Engineering, PolyOrgLab, Slovenia, [2]Centre of Excellence COBIK, Slovenia, [3]BIA Separations d.o.o, Slovenia*
P2.50	**Synthesis of biobased polymeric microcapsules based on renewable resource for encapsulation of bio pesticide and its release behaviour** R.K. Hedaoo*[1], S.D. Rajput[1], P.P. Mahulikar[1], V.V. Gite[1], *[1]North Maharashtra University, India*
P2.51	**Analysis of the influence of plasma treatment on polyimidic polymers for gas separation membranes** E. Pérez[1], A. Tena*[1,2], P. Pradanos[1], M. Pérez-Perrino[1], L. Palacio[1], A. Marcos-Fernández[1,2], *[1]UVA,CSIC, Spain, [2]ICTP, CSIC, Spain*
P2.52	**Reduction-sensitive functionalized copolyurethanes for biomedical applications** C. Ferris Villanueva[1], M.V. De Paz Báñez*[1], B. Begines Ruiz[1], A. Aguilar-de-Leyva[1], I. Caraballo[1], J.A. Galbis Pérez[1], *[1]University of Seville, Spain*
P2.53	**Highly fluorescent poly(thienylene vinylene) with twisted bis(trifluoromethyl)biphenyl as ICT prohibiter** C.J. Chiang[1], H.Y. Tsao[1], J.C. Chen*[1], *[1]National Taiwan University of Science and Technology, Taiwan*
P2.54	**Block copolymers for gas separation: Looking for the ideal structure** A. Gil[1], A. Tena*[1,2], A. Marcos-Fernández[1,2], M.R. De la Viuda[1], A.E. Lozano[1,2], P. Pradanos[1], *[1]UVA,CSIC, Spain, [2]ICTP, CSIC, Spain*
P2.55	**A new generation of materials produced by partial pyrolisis applied to gas separation processes** M.R. De la Viuda*[1], A.E. Lozano[1,2], A. Tena[1,2], P. Pradanos[1], A. Marcos-Fernández[1,2], L. Palacio[1], *[1]UVA,CSIC, Spain, [2]ICTP, CSIC, Spain*

P2.56	**Carboxyl terminated (butadiene-co-acrylonitrile) liquid rubber modified epoxy/clay nanocomposite: Liquid rubber–clay interaction, liquid rubber assisted dispersion and orientation of nanoclay** P. Vijayan*[1], D. Puglia[2], J.M. Kenny[2], S. Thomas[1], *[1]Mahatma Gandhi University, India, [2]University of Perugia, Italy*
P2.57	**Magnetite-polypeptide hybrid materials decorated with gold nanoparticles: Basic study of their catalytic activity** G. Marcelo*[1], A. Muñoz-Bonilla[1], M. Fernámdez-garcía[1], *[1]Instituto de Ciencie y tecnología de Polímeros, Spain*
P2.58	**pH responsive PEG-*b*-PMCL-*b*-PDMAEMA triblock copolymers for protein therapy** D. Vasquez*[1], Y. Matter[1], P. Baumann[1], C. Palivan[1], W. Meier[1], *[1]Basel University, Switzerland*
P2.59	**Thermomechanical and thermal properties of functionalized multiwalled carbon nanotube/epoxy composites** U. Pongsa[1], C. Samthong[1], A. Somwangthanaroj*[1], *[1]Chulalongkorn University, Thailand*
P2.60	**Poly(β-malic acid)/doxorubicin ionic complex for controlled drug delivery** A. Lanz-Landazuri*[1], A. Martínez de Ilarduya[1], M. García-Alvarez[1], S. Muñoz-Guerra[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.61	**Synthesis of comb-like alkyl polymalates via thiol-ene click chemistry: Nanoparticles formation and drug encapsulation** A. Lanz-Landazuri*[1], A. Martínez de Ilarduya[1], M. García-Alvarez[1], S. Muñoz-Guerra[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.62	**Controlled chain-growth polymerization and characterization of poly(3-alkylthiophene)s with different degrees of regioregularity** P. Willot*[1], J. Steverlynck[1], D. Moerman[2], R. Lazzaroni[2], G. Koeckelberghs[1], *[1]KU Leuven, Belgium, [2]University of Mons, Belgium*
P2.63	**Poly (N-isopropylacrylamide-*co*-tris-nitrilotriacetic acid acrylamide) for molecular recognition** J. Liu*[1], C. G. Palivan[1], W. Meier[1], *[1]University of Basel, Switzerland*
P2.64	**Synthesis and characterization of novel carboxylic acid-containing PEG-monomers and their hydrogels** S. Agopcan*[1], B. Oktay[2], N. Kayaman-Apohan[2], S. Erdem-Kuruca[3], D. Avci[1], *[1]Bogazici University, Turkey, [2]Marmara University, Turkey, [3]Istanbul University, Turkey*
P2.65	**Renewable source based highly transparent polyurethanes films and coatings** S.D. Rajput[1], R.K. Hedaoo*[1], P.P. Mahulikar[1], V.V. Gite[1], *[1]North Maharashtra University, India*
P2.66	**Synthesis, characterization and potential applications of lactic acid based telechelic prepolymers prepared by polycondensation** A. Józwiak*[1], Z. Florjanczyk[1], A. Plichta[1], A. Kundys[1], P. Lisowska[1], A. Zychewicz[1], *[1]Warsaw University of Technology, Poland*
P2.67	**Passive microrheology : Non contact measurement of viscoelastic properties of biopolymers** C. Tisserand*[1], M. Fleury[1], R. Ramsch[1], P. Bru[1], G. Meunier[1], *[1]Formulaction, France*
P2.68	**Passive microrheology thanks to MS-DWS** G. Brambilla*[1], C. Tisserand[1], M. Fleury[1], G. Meunier[1], *[1]Formulaction, France*
P2.69	**Nancomposites poly(ethylene/1-Octadecene, LLDPE)-TiO_2 nanoparticles prepared by "*in situ*" polymerization** P.A. Zapata R*[1], L.S. Cruz[2], H. Palza C[2], F.M. Rabagliati[1], *[1]Universidad Santiago de Chile, Chile, [2]Universidad de Chile, Chile*
P2.70	**Stimuli-responsive nanocapsules with polymer brushes synthesized by atom transfer radical precipitation polymerization** G.S. Pappas*[1], P. Bilalis[1], L.A. Tziveleka[1], G. Kordas[1], *[1]NCSR, Greece*
P2.71	**Complexes of poly(γ-glutamic acid) abd fatty acid choline** A. Tolentino[1], S. León[2], A. Alla*[1], A. Martínez de Ilarduya[1], S. Muñoz-Guerra[1], *[1]Universitat Politècnica de Catalunya, Spain, [2]Universidad Politécnica de Madrid, Spain*

P2.72	**A snapshot of thermo-oxidative degradation products in poly(bisphenol A carbonate) by ESI and MALDI mass spectrometry** S. Carroccio[1], P. Rizzarelli[1], D. Zampino*[1], *[1]Consiglio Nazionale delle Ricerche, Italy*
P2.73	**Enzymatic treatment of lignin for bonding of lignocellulosic materials** J. Batog*[1], R. Wojcik[1], *[1]Institute of Natural Fibres & Medicinal Plants, Poland*
P2.74	**Effect of the presence of $BaTiO_3$ submicrometric particles on the morphology and crystallization of polydivinylidene fluoride** F.A. Sanchez[1], M. Redondo[1], J. González-Benito*[1], *[1]University Carlos III of Madrid, Spain*
P2.75	**Biocompatible magnetic nanomedicines for cancer treatment** J.L. Arias*[1], J.C. Prados[2], C. Melguizo[2], L. Cabeza[2], R. Ortiz[3], P. Couvreur[4], *[1]Department of Pharmacy and Pharmaceutical Technology, University of Granada, Spain, [2]Department of Anatomy and Human Embryology, University of Granada, Spain, [3]University of Jaén, Spain, [4]Université Paris-Sud XI, France*
P2.76	**Hyperthermia against advanced colon cancer mediated by biocompatible magnetic nanocomposites** J.L. Arias*[1], C. Melguizo[2], J.C. Prados[2], R. Ortiz[3], L. Cabeza[2], M.A. Ruiz[1], *[1]Department of Pharmacy and Pharmaceutical Technology, University of Granada, Spain, [2]Department of Anatomy and Human Embryology, University of Granada, Spain, [3]University of Jaén, Spain*
P2.77	**The studies on (poly)reactions of macrodiols with lactide, polylactide and epoxides** P. Lisowska*[1], A. Kundys[1], A. Zychewicz[1], A. Józwiak[1], Z. Florjanczyk[1], A. Plichta[1], *[1]Warsaw University of Technology, Poland*
P2.78	**Electrospun hybrid scaffolds composed of PLA/PEG mixtures for tissue engineering and drug delivery** E. Llorens*[1], R. Ferran[1], L. Franco[1,2], A. Rodriguez-Galán[1,2], J. Puiggalí[1,2], L.J. del Valle[1], *[1]Universitat Politècnica de Catalunya, Spain, [2]Center for Research in Nano-Engineering, Spain*
P2.79	**Ring opening polymerization of lactide conducted in the presence of aliphatic-aromatic polyesterocarbonatediol** A. Zychewicz*[1], A. Kundys[1], P. Lisowska[1], A. Józwiak[1], Z. Florjanczyk[1], A. Plichta[1], *[1]Warsaw University of Technology, Poland*
P2.80	**Antibacterial activity of polyhexamethylene biguanide loaded in PLA electrospun microfibers** E. Llorens*[1], S. Calderón[1], J. Puiggalí[1,2], L.J. del Valle[1], *[1]Universitat Politècnica de Catalunya, Spain, [2]Center for Research in Nano-Engineering, Spain*
P2.81	**Dynamic vulcanization of NR in PS/NR melt blending: Morphological, mechanical and thermal study** P. Promcharoen*[1], S. Sujeerakulkrai[1], S. Paengsri[1], C. Thongpin[1], *[1]Silpakorn University, Thailand*
P2.82	**Auxetic behaviour of alpha-polypropylene with crosshatch structure** M. Neumann*[1], R. Magerle[1], *[1]Chemnitz University of Technology, Germany*
P2.83	**Preparation of binary metallocene iso and syndiospecific systems for the synthesis of polypropylene with tailored properties** E. lópez-Moya*[1], R. Van Grieken[1], A. Carrero[2], B. Paredes[1], *[1]Department of chemical and enviromental Technology,Universidad Rey Juan Carlos, Spain, [2]Department of chemical and Energy technology,Universidad Rey Juan Carlos, Spain*
P2.84	**Control of feed parameters on PHB obtained from Ralstonia eutropha** C. Soldado[1], M.J. Lis[1], J.J. Bou*[1], *[1]Universitat Politècnica de Catalunya, Spain*
P2.85	**Application of nano-structured lignin as UV blocker for textiles** J. Batog*[1], M. Zimniewska[1], *[1]Institute of Natural Fibres & Medicinal Plants, Poland*
P2.86	**Use of lignocellulosic materials for the production of Li-ion paper-batteries** L. Jabbour[1], M. Destro[2], C. Gerbaldi*[2,3], D. Chaussy[1], N. Penazzi[2], D. Beneventi[1], *[1]CNRS, France, [2]Politecnico di Torino, Italy, [3]Italian Institute of Technology, Italy*

P2.87	**Cell interactions with azo-polysiloxanic flat and nano-patterned surfaces** C.M. Paius*[1], N. Nichita[2], L. Rocha[3], N. Hurduc[1], *[1]Gheorghe Asachi Technical University, Romania, [2]Institute of Biochemistry of the Romanian Academy, Romania, [3]Commissariat à l'énergie atomique, France*
P2.88	**Investigations of nano-scale organization in PTT-block-PTMO copolymer/graphite oxide nanocomposites during melting and crystllization** A. Szymczyk*[1], S. Paszkiewicz[2], Z. Spitalsky[3], J. Mosnacek[3], Z. Roslaniec[2], *[1]Institute of Physics, West Pomeranian University of Technology, Szczecin, Poland, [2]Institute of Material Science and Engineering, West Pomeranian University of Technology, Szczecin, Poland, [3]Slovak Academy of Sciences, Slovakia*
P2.89	**pH-sensitive nitroxides of imidazoline series with multiple ionisable groups as a novel mediators for Nitroxide Mediating Polymerization** D.A. Parkhomenko*[1,2], M.V. Edeleva[2], I.F. Kirilyuk[3], V.G. Kiselev[4], I.F. Zhurko[3], E.G. Bagryanskaya[2,3], *[1]Novosibirsk State University, Russia, [2]International Tomography Center SB RAS, Russia, [3]Novosibirsk Institute of Organic Chemistry SB RAS, Russia, [4]Institute of Chemical Kinetics and Combustion SB RAS, Russia*
P2.90	**Development of multipurpose ethylene oxide based polymer electrolytes for smart and energy efficient devices** J.R. Nair[1], F. Bella[1], C. Gerbaldi*[1], *[1]Politecnico di Torino, Italy*
P2.91	**Novel multiphase electrode/electrolyte composites for next generation of flexible polymeric Li-ion cells** M. Destro*[1], J.R. Nair[1], C. Gerbaldi[1], R. Bongiovanni[1], N. Penazzi[1], *[1]Politecnico di Torino, Italy*
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P2.184	**Multifunctional biodegradable PLA-PHB based films reinforced with cellulose nanocrystals** M.P. Arrieta*[1], E. Fortunati[2], F. Dominici[2], E. Rayón[3], J. López[1], J.M. Kenny[2,4], *[1]Universitat Politècnica de Valencia, Spain, [2]University of Perugia, Italy, [3]Universitat Politècnica de Valencia, Spain, [4]CSIC, Spain*
P2.185	**A study on ZnO nanoparticle catalyzed one Step synthesis of PLA/ZnO nanocomposites** H. Kaur*[1], *[1]Gujarat University, India*
P2.186	**Fluorescence technique for studying the molecular weight effect on the dissolution behavior of thin PS latex films** S. Ugur*[1], *[1]Istanbul Technical University, Turkey*
P2.187	**Syntesis and characterization of polyaniline/activated-carbon nanocomposites by oxidative polymerization** A.B. Reguig*[1], A. Benyoucef[1], A. Zehhaf[1], A. Yahiaoui[1], M. Belbachir[1,2], *[1]University of Mascara, Algeria, [2]University of Oran, Algeria*
P2.188	**Synthesis and properties of multicleavable amphiphilic dendritic comblike and toothbrushlike copolymers comprising alternating PEG and PCL grafts** Y.L. Zhao*[1], M.J. Zhang[1], H.H. Liu[1], W. Shao[1], K. Miao[1], *[1]Soochow University, China*
P2.189	**Amphiphilic copolymers based on PLA polyester and PEO/PPO polyether blocks** L.M.D. Loiola*[1], M.I. Felisberti[1], *[1]Unicamp, Brazil*
P2.190	**Low temperature preparation of highly porous copolymers of ε-caprolactone: New scaffolds for tissue engineering** M. Tang*[1], C.K. Williams[1], M. Purcell[2], S. Howdle[2], J.A.M. Steele[1], A. Bismarck[1], *[1]Imperial College London, UK, [2]Nottingham University, UK*
P2.191	**Candle light-style organic light-emitting diodes** J.H. Jou*[1], C.Y. Hsiesh[1], *[1]National Tsing Hua Univ, Taiwan*
P2.192	**Synthesis and characterization of poly(2-aminobenzene sulfonic acid)/activated-carbon conductive nanocomposites by oxidative polymerization** I. Toumi[1], A. Benyoucef*[1], A. Zehhaf[1], A. Yahiaoui[1], M. Belbachir[1], *[1]University of Mascara, Algeria, [2]University of Oran, Algeria*
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P3.1	**One-pot radical polymerization of one inimer to form one-dimensional polymeric nanomaterials** P. Ma[1], H. Nie[1], H. Liu[1], H. Liu*[1], *[1]University of Science and Technology of China, China*
P3.2	**Bio-polymers and bio-nanocomposites with shape memory effects** L. Peponi*[1], I. Navarro-Baena[2], J.M. Kenny[1,2], *[1]C.S.I.C., Spain, [2]University of Perugia, Italy*

P3.3	**Preparation of photoactive polymers and postmodification via nitroxide trapping under UV irradiation** A. Mardyukov*[1], A. Studer[1], [1]*University of Münster, Germany*
P3.4	**Formation of cage-like sulfonated polystyrene microspheres via swelling-osmosis process** X.F. Huang[1], M.Z. Wang*[1], X. Ji[1], X.W. Ge[1], [1]*University of Science and Technology of China, China*
P3.5	**Synthesis and morphology of sulfonated crosslinked polystyrene particles with grooved surfaces: From plum-like to walnut-like** B.X. Li[1], M.Z. Wang[1], X.W. Ge*[1], [1]*University of Science and Technology of China, China*
P3.6	**Development of functional green materials based on bio-based glyceric acid from raw glycerol** T. Fukuoka*[1], H. Habe[1], S. Sato[1], D. Kitamoto[1], K. Sakaki[1], [1]*National Institute of Advanced Industrial Science and Technology, Japan*
P3.7	**pH responsiveness of two-layer composite membrane with ultrathin cylindrical nanoporous PS-b-P4VP film** S. Liu[1,2], L.H. Wang*[1], B.Q. Liu[1], Y.L. Song[1], [1]*Institute of Chemistry,CAS, China,* [2]*University of Chinese Academy of Sciences, China*
P3.8	**Synthesis of polymeric hydrogels containing tetra ethylene glycol dimethacrylate** A. Fasla*[1], [1]*Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, Algeria*
P3.9	**C-C bond scission of cylindrical polymer brushes on surfaces** Z. Zheng*[1], J. Ling[1], A.H.E. Müller[1], [1]*Universität Bayreuth, Germany*
P3.10	**Shape-anisotropic interpolyelectrolyte complexes in multicompartment micelles of triblock terpolymers** T.I. Löbling*[3], A.H. Gröschel[1], C. Synatschke[3], F.H. Schacher[2], A.H.E. Müller[3], [1]*Aalto University, Finland,* [2]*Friedrich-Schiller-University, Jena, Germany,* [3]*University of Bayreuth, Germany*
P3.11	**Articulating polymers by a topological bond** A. Van Quaethem[1], G. De Bo[1], P. Lussis[2], A.S. Duwez[2], C.A. Fustin*[1], [1]*Université catholique de Louvain, Belgium,* [2]*Université de Liège, Belgium*
P3.12	**Photocleavable block copolymers: From synthesis to applications in thin films and solutions** C.A. Fustin*[1], O. Bertrand[1], J.M. Schumers[1], J.F. Gohy[1], [1]*Université catholique de Louvain, Belgium*
P3.13	**Chemical synthesis and characterization of conducting poly(m-aminophenol)/Montmorillonite nanocomposite** M. Khaldi[1], A. Zehhaf*[1], A. Benyoucef[1], A. Yahiaoui[1], A. Belbachir[2], [1]*University of Mascara, Algeria,* [2]*University of Oran, Algeria*
P3.14	**Synthesis and characterization of conjugated polymers containing 4,4´-diaryl-2,2´-bipyrroles** G. Anguera*[1], J.I. Borrell[1], D. Sánchez-García[1], R. Teixidó[2], S. Borrós[2], [1]*Institut Químic de Sarrià, Universitat Ramon Llull, Spain,* [2]*Institut Químic de Sarrià, Universitat Ramon Llull, Spain*
P3.15	**Dual hydrogel nanocomposite networks for rapid and selective metal ion absorption** N. Sahiner*[1], D. Alpaslan[2], F. Seven[1], A. Caglar[1], N. Aktas[2], [1]*Canakkale Onsekiz Mart University, Turkey,* [2]*Yuzuncu Yil University, Turkey*
P3.16	**Study of polymeric metallomacrocycles synthesized from a 2,6-bidentate ligand and disodium phthalocyanine** E.A. Loza*[1], C.O. Pérez[1], R.A. Torres[1], M.E. Sánchez[1], [1]*Universidad Anáhuac México Norte, Mexico*
P3.17	**Formation of polymeric-metallomacrocycle thin films from M2Pc (M=Li, Na): Effects of bidentate amines on the optical properties** C.O. Pérez*[1], E.A. Loza[1], R.A. Torres[1], M.E. Sánchez[1], [1]*Universidad Anahuac México Norte, Mexico*
P3.18	**Selective cell-death induced by proteinase-mediated self-assembly of a supramolecular gelator** A. Tanaka*[1], Y. Fukuoka[1], T. Honjo[1], M. Goto[2], T. Maruyama[1], [1]*Kobe university, Japan,* [2]*Kyushu university, Japan*
P3.19	**Tensile stress effect on the macromolecular orientation and erosion mechanism of an atomic oxygen irradiated polyimide** R. Verker*[1], N. Atar[1], F. Quero[2], S. J. Eichhorn[3], E. Grossman[1], [1]*Soreq NRC, Israel,* [2]*University of Manchester, UK,* [3]*University of Exeter, UK*

P3.20	**A liquid crystal polysiloxane as a matrix for magnetic materials** O. Riou[1,2], B. Lonetti*[1], K. Soulantica[2], A.F. Mingotaud[1], L. Zadoina[1], M. Mauzac[1], *[1]Laboratoire Interactions Moleculaires et Reactivite Chimique et Photochimique, Universite de Toulouse, France, [2]Laboratoire de Physique et Chimie de Nano-Objets, Université de Toulouse, France*
P3.21	**Synthetic approach toward the maximal generation of dendronized polymers** B. Zhang*[1], H. Yu[1], A.D. Schlüter[1], *[1]ETH Zurich, Switzerland*
P3.22	**Preparation and mechanical characterization of a free-standing monolayer made by anthracene photo-dimerization at the air/water interface** P. Payamyar*[1], K. Kaja[1], A. Stemmer[1], J. Sakamoto[1], A.D. Schlüter[1], *[1]Polymer Chemistry, Switzerland*
P3.23	**Polyvinyl acetate in art: At the frontiers in polymer science** M.J. Melo*[1,2], J.L. Ferreira[1,2], A.I. Pereira[1,2], A.M. Ramos[1], *[1]New University of Lisbon, Portugal, [2]UNL, Portugal*
P3.24	**Effects of UV irradiation on the wettability of chitosan films modified with dansyl derivatives** A.J.C. Silva[1], A.P.P. Praxedes[1], R.C. Silva[1], J. Tonholo[1], I.N. Oliveira[1], A.S. Ribeiro*[1], *[1]Universidade Federal de Alagoas, Brazil*
P3.25	**Thermoplastic nanocomposites with silica/ionic liquid hybrid fillers** K.Z. Donato*[1], R.K. Donato[1], L. Matejka[2], H.S. Schrekker[1], R.S. Mauler[1], *[1]Universidade Federal do Rio Grande do Sul, Brazil, [2]Academy of Science of the Czech Republic, Czech Republic*
P3.26	**Preparation of an organic/inorganic hybrid ion transport membrane and its application in vanadium redox flow battery** S. Liu[1], L.H. Wang*[1], B.Q. Liu[1], *[1]CAS, China*
P3.27	**Synthesis of sulfonated polyimide copolymer and its application in vanadium redox flow battery** Y. Ding[1], L.H. Wang*[1], X.T. Han[1], B.Q. Liu[1], *[1]CAS, China*
P3.28	**Liquid/liquid extraction of DNA-functionalized-quantum dots using reverse micelles** T. Kato*[1], Y. Fujimoto[1], A. Shimomura[1], T. Maruyama[1], *[1]Kobe University, Japan*
P3.29	**Reactive conducting polymer supported noble metal nanoparticles: Mechanisms, morphology control and their catalytic applications** J. Han*[1], R. Guo[1], *[1]Yangzhou University, China*
P3.30	**Plasticized PLA-PHB blends for food packaging applications** M.P. Arrieta*[1], M.D. Samper[1], A. Jiménez[2], J. López[1], *[1]Universitat Politècnica de Valencia, Spain, [2]University of Alicante, Spain*
P3.31	**Thermoresponsive dynamic covalent polymers** X.C. Zhang*[1], W. Li[1], A.F. Zhang[1], *[1]Shanghai University, China*
P3.32	**Efficient synthesis of a densely packed dendronized polymer of generation 6 by a "n+2" approach** H. Yu*[1], B. Zhang[1], A.D. Schlüter[1], *[1]ETH Zürich, Switzerland*
P3.33	**Entanglement related memory effect and primary nucleation of polymers** C. Luo*[1], J.U. Sommer[1], *[1]Leibniz-Institut für Polymerforschung Dresden, Germany, [2]Technische Universität Dresden, Germany*
P3.34	**This must be the most talended block copolymer! Ten skill in its ten fingers** V. Butun*[1], *[1]Eskisehir Osmangazi University, Turkey*
P3.35	**A novel multi-responsive microgels: Synthesis and characterization studies** C. Tuncer*[1], Y. Samav[1], D. Ulker[1], S.B. Baker[1], A. Cabuk[1], V. Butun[1], *[1]Eskisehir Osmangazi University, Turkey*

P3.36	**Growth mechanisms and I_2/I^- redox catalytic behaviour of PEDOT–PSS films electropolymerized in aqueous medium** E. Tamburri[1], V. Guglielmotti[1,2], S. Orlanducci[1], D. Passeri[3], G. Reina*[1,2], M.L. Terranova[1], *[1]Dip.to Scienze e Tecnologie Chimiche - MinimaLab, Università di Roma "Tor Vergata", Roma, Italy, [2]NanoShare Srl, Roma, Italy, [3]Dip.to. di Scienze di Base e Applicate per l'Ingegneria, Università di Roma "La Sapienza", Roma, Italy*
P3.37	**Nanodiamonds - PSS^{n-} covalent compound as novel dopant for the synthesis of PEDOT based nanocomposites** G. Reina*[1,2], T. Lavecchia[1,2], E. Tamburri[1], V. Guglielmotti[1,2], S. Orlanducci[1], M.L. Terranova[1], *[1]Dip.to Scienze e Tecnologie Chimiche - MinimaLab, Università di Roma "Tor Vergata", Roma, Italy, [2]NanoShare Srl, Roma, Italy, [3]Dip.to. di Scienze di Base e Applicate per l'Ingegneria, Università di Roma "La Sapienza", Roma, Italy*
P3.38	**Ambient temperature polymerisation of oxiranes initiated by the novel $MSbF_6/H_2O$ co-initiator system** L.M. Broomfield[1], R.M. Sebastian[1], J. Marquet*[1], R. Schonfeld[2], *[1]Universitat Autonoma de Barcelona, Spain, [2]Henkel AG & Co. KGaA, Germany*
P3.39	**Catalyst effects on the ring-opening polymerization of 1,3-benzoxazine and on the polymer inner structure** C. Liu[1], D. Shen[1], R.M. Sebastián*[1], J. Marquet[1], R. Schönfeld[2], *[1]Universitat Autònoma de Barcelona, Spain, [2]Henkel AG & Co. KGaA, Germany*
P3.40	**Equilibrium studies for the sorption of reactive dye from effluents using a new material chitosan foam** F.N. Allouche*[1], N. Mameri[1], *[1]Centre Renewable Energy Development, Algeria*
P3.41	**Use of more sustainable cross-linkers for gelatine-cmc microcapsules as an alternative to formaldehyde** M.A. Perez-limiñana*[1], F. Aran-Ais[1], C. Orgiles-barcelo[1], *[1]INESCOP, Spain*
P3.42	**Remarkable structures effects on chiroptical properties of polyisocyanides carrying proline pendants** A.Q. Xu*[1], S. Li[1], Y.L. Hu[1], G.X. Hu[1], G.C. Kuang[1], A.F. Zhang[1], *[1]Shanghai University, China*
P3.43	**Oligoethylene glycol-based themoresponsive supramolecules** J.T. Yan*[1], X.Q. Zhang[1], W. Li[1], K. Liu[1], X.Q. Zhang[1], A.F. Zhang[1], *[1]Shanghai University, China*
P3.44	**Influence of pH on the cross-linking efficiency of glutaraldehyde in the microcapsules obtained by complex coacervation** M.A. Perez-limiñana*[1], F. Aran-Ais[1], C. Orgiles Barcelo[1], *[1]INESCOP, Spain*
P3.45	**A facile one-step synthesis of compatibilizer for graphene-based polymer composites** X.Z. Tong[1], F. Song[1], X.L. Wang*[1], Y.Z. Wang[1], *[1]Sichuan University, China*
P3.46	**Mechanical properties of poly-L-lysine (PLL) / hyaluronic acid (HA) multilayer films investigated by CP-AFM** J. Hellwig*[1], C. Üzüm[1], R. von Klitzing[1], *[1]TU Berlin, Germany*
P3.47	**Synthesis and characterization of poly(vinylidene fluoride-co-chlorotrifluoroehtylene)-grafted-poly(methylmethacrylate) via single electron transfer-living radial polymeriztion process** X. Hu*[1], J.J. Li[1], Z.C. Zhang[1], *[1]Xi'an Jiaotong University, China*
P3.48	**Supramolecular polymers from columnar assembly of C_3 peptidic molecules** Y.T. Dai*[1], X.Y. Su[1], G.C. Kuang[1], *[1]Shanghai University, China*
P3.49	**Temperature-triggered switching of helical conformation of polyprolines** X.Q. Zhang*[1], W. Li[1], A.F. Zhang[1], *[1]Shanghai, China*
P3.50	**New concepts for copper-free antifouling coatings for marine applications** A. Movahedi*[1], N. Kann[1], K. Moth-Poulsen[1], M. Nyden[1,2], *[1]Chalmers University of Technology, Sweden, [2]University of Southern Ausrtalia, Australia*
P3.51	**Conjugated polyelectrolytes as fluorescent probes for bioimaging and biosensing: Interaction with lipid vesicles** Z. Kahveci*[1], M.J. Martínez-Tomé[1], R. Vázquez[1], R. Mallavia[1], C.R. Mateo[1], *[1]Universidad Miguel Hernandez de Elche, Spain*

P3.52	**Complex self-assembly morphologies of multicomponent miktoarm star copolymers** J.J.K. Kirkensgaard*[1], [1]*University of Copenhagen, Denmark*
P3.53	**Chemical synthesis of nanocomposites via intercalative polymerisation of thiophene and aniline using clay as dopant** A. Yahiaoui*[1], W. Saiah[1], A. Hachemaoui[1], A. Benyoucef[1], [1]*Mascara University, Algeria*
P3.54	**Synthesis and characterization of poly(amino benzyl amine) and the copolymers with aniline by Montmorillonite-Cr(III)** A. Hachemaoui*[1], F.Z. Zaggai[1], A. Yahiaoui[1], [1]*Mascara University, Algeria*
P3.55	**On the stereoselectivity of PPL-catalyzed formation of polyesters from mono-substituted epoxides and cyclic acid anhydrides** H. Debbeche*[1], M. Toffano[1], L. Zouioueche[1], J.C. Fiaud[1], [1]*Université Paris-Sud, France*
P3.56	**Design of outer-surface morphology of hollow fiber membranes using dip-coating and vapor-induced phase separation** Y. Hao*[1], R. Sano[1], H. Matsuyama[1], T. Maruyama[1], [1]*Kobe University, Japan*
P3.57	**Graphene oxide/phenolic resin nanocomposites with high thermal resistance** S. JIngjing*[1], H. Wei[1], W. Shujuan[1], L. Yu[1], L. Jian[2], J. Xinli[1], [1]*Xi'an Jiaotong University, China,* [2]*Xi'an aerospace composite materials research institute, China*
P3.58	**Toughening of epoxies by covalently anchoring triazole-functionalized carbon nanofibers** W.S. Liu*[1], J.H. Kong[1], R. Zhou[1], G.Q. Ding[1], X.H. Lu[1], [1]*Nanyang Technological University, Singapore*
P3.59	**Azulene-based copolymers as a complementary layer to poly(4-styrene sulfonic acid)-doped poly(3,4-ethylenedioxythiophene) for black-to-transmissive electrochromism** G. Ding*[1], J. Xu[2], X. Lu[1], [1]*Nanyang Technological University, Singapore,* [2]*Institute of Materials Research and Engineering, Singapore*
P3.60	**Effect of polymer solution properties on the efficiency of electrospinning polycaprolactone-montmorillonite nanofibers** K.G. Arano*[1], M.L.L. dela Cruz[1], E.M.B. dela Pena[1], L.J.L. Diaz[1], [1]*University of the Philippines, The Philippines*
P3.61	**High performance OTFTs with photolithographically patterned polymer as electrodes** L.W. Wang*[1], Z.Y.J. Ji[1], C.Y.L. Lu[1], J.W.G. Guo[1], M.L. Liu[1], [1]*Chinese Academy of Sciences, China*
P3.62	**Blends of post-consumer PP-HDPE in composites reinforced with wood flour: Physical and rheological properties** L.S. Montagna*[1], A. Catto[1], R.M.C. Santana[1], [1]*Federal University of Rio Grande do Sul, Brazil*
P3.63	**Nonionic block copolymers assemble on the surface of protein bionanoparticle** Z. Liu[1], J. Gu[1], M. Wu[1], Y. Tian*[1], Z. Niu[1], Y. Huang[1], [1]*Chinese Academy of Sciences, China*
P3.64	**Macroporous thin films for tissue engineering** C.M. Antolinos-Turpín*[1], R.M. Morales Román[1], J.A. Gómez-Tejedor[1], J.L. Gómez Ribelles[1,2], [1]*Universidad Politecnica de Valencia, Spain,* [2]*BBN, Spain*
P3.65	**How can we effectively display a hydrophilic moiety (NH2-) by simple dip-coating of a functional polymer on a substrate?** T. Maruyama*[1], A. Shimomura[1], T. Nishino[1], [1]*Kobe University, Japan*
P3.66	**Nonisothermal crystallization of poly(L-lactide) in poly(L-lactide)/olive stone flour composites** S. Perinovic[1], B. Andricic*[1], [1]*Faculty of Chemistry and Technology, Croatia*
P3.67	**A thermodynamic description of reversible shape memory effect in semicrystalline crosslinked polymers** O. Dolynchuk*[1], I. Kolesov[1], H-J. Radusch[1], [1]*Martin Luther University Halle-Wittenberg, Germany*

P3.68	**Polymeric hydrogel thin films as multifunctional reservoir for biomedical applications** U. Jonas[1,2], V. Schwartz*[1], A. Mateescu[2], U. Ritz[3], A. Brunsen[4], *[1]University of Siegen, Germany, [2]FORTH, Greece, [3]Johannes Gutenberg University Mainz, Germany, [4]TU, Germany*
P3.69	**Double-derivatized dendrimer as P-glycoprotein inhibitor and tight junction modulator for oral drug delivery** Y. Liu*[1], N.C.G. Chiu[1], *[1]National University of Singapore, Singapore*
P3.70	**Improved thermal and photochemical stability of polyfluorenes in a thermoplastic polymeric matrices** F.J. Payá-Nohales[1], R. Vázquez-Guilló*[2], R. Mallavia[2], F. Arán-Ais[1], *[1]INESCOP, Spain, [2]Universidad Miguel Hernández, Spain*
P3.71	**The influence of cadmium chloride over the morphology and properties of polyaniline obtained through a direct synthesis path** V. Musat[1], M. Popa*[1], C.S. Stan[1], *[1]"Gheorghe Asachi" Technical University of Iasi, Romania*
P3.72	**Synthesis and characterization of monolithic columns for high performance liquid chromatography** M. Maciejewska*[1], M. Grochowicz[1], J. Osypiuk-Tomasik[1], *[1]Maria Curie Sklodowska University, Poland*
P3.73	**Surface modification of reactive polymers with functional metal nanoparticles** J. Bastos-Arrieta*[1], D. Muraviev[1], M. Muñoz[1], P. Ruiz[2], *[1]Universitat Autònoma de Barcelona, Spain, [2]MATGAS Research Center, Spain*
P3.74	**An "in vitro" experimental model to assess long-term performance of macroporous scaffolds implanted in soft or hard tissues** L. Vikingsson*[1], C.M. Antolinos-Turpín[1], J.A. Panadero[1,2], V. Sencadas[2], S. Lanceros-Méndez[2,3], G. Gallego Ferrer[1,4], *[1]Universitat Politècnica de València, Spain, [2]Campus de Gualtar, Portugal, [3]INL, Portugal, [4]Ciber en Bioingeniería, Portugal*
P3.75	**Preparation, characterization and study of asphalt ligand modified with thermoplastic polymers** L. Horst[1], R.G. Sousa[1], M.E.S.R. Silva[1], R.F.S. Freitas*[1], *[1]Federal University of Minas Gerais, Brazil*
P3.76	**Study of syntheses parameters of poly(n-isopropylacrylamide) temperature sensitive polymer gel** J.F.S. Filho[1], R.G. Sousa[1], M.E.S.R. Silva[1], R.F.S. Freitas*[1], *[1]Federal University of Minas Gerais, Brazil*
P3.77	**Tannic acid crosslinked chitosan/poly(vynil alcohol) hydrogels for entrapping drug loaded liposomes** B.C. Ciobanu[1,2], A.N. Cadinoiu (Jatariu)[1], C.A. Peptu[1], J. Desbrières[1,2], M. Popa*[1], *[1]"Gheorghe Asachi" Technical University of Iasi, Romania, [2]Université de Pau et des Pays de l'Adour, France*
P3.78	**Chitosan based in situ gel forming azithromycin loaded nanocomposite** D. Manikandan*[1], M.J. Nanjan[1], *[1]JSS, India*
P3.79	**The topographically changes in polyelectrolyte multilayer during swelling** M. Zerball*[1], R. von Klitzing[1], *[1]TU Berlin, Germany*
P3.80	**Correlating the thermophysical and molecular properties of 19th century chrome yellow oil paints** A.M. Ramos*[1], D. Sanches[1], M.J. Melo[1], L. Carlyle[1], J.F.J. Coelho[2], C.S.M.F. Costa[2], *[1]Universidade Nova de Lisboa, Portugal, [2]Universidade de Coimbra, Portugal*
P3.81	**Surface modification of hydroxyapatite with thermo-responsive polymer brushes via ATRP** B. Wlodarczyk*[1], J. Pietrasik[1], M. Zaborski[1], *[1]Lodz University of Technology, Poland*
P3.82	**Toughening of wheat gluten biopolymer with epoxidized natural rubber** S. Hemsri*[1], C. Tongpin[1], P. Somkid[1], A. Playkaew[1], S. Saearma[1], *[1]Silpakorn University, Thailand*
P3.83	**Self-standing protein-polymer functional hybrid films showing unusual spreading behavior** K.P. Sharma*[1], A.W. Perriman[1], S. Mann[1], *[1]University of Bristol, UK*
P3.84	**Multipurpose backbone for the synthesis of antifouling polymers** A.S. Serrano*[1,2], S.Z. Zürcher[1,2], S.T. Tosatti[1,2], N.D.S. Spencer[1], *[1]ETH Zürich, Switzerland, [2]SuSoS AG, Switzerland*

P3.85	**Composite polymer particles 4VP-TRIM with different morphologies** M. Grochowicz*[1], L. Szajnecki[1], P. Paczkowski[1], M. Maciejewska[1], B. Gawdzik[1], *[1]Maria Curie Sklodowska University, Poland*
P3.86	**Dynamic mechanical analysis of UV irradiated multilayer polymer films** T. Haramina*[1], J. Macan[2], L. Fulanovic[1], *[1]University of Zagreb Faculty of Mechanical Engineering and Naval Architecture, Croatia, [2]University of Zagreb Faculty of Chemical Engineering and Technology, Croatia*
P3.87	**Preparation of ZnO and ZnO/PMMA for UV-VIS absorbers** Z.C.O. Crnjak Orel*[1], D.J. Japic[1], I.D. Djerdj[1], M.M. Marinšek[1], *[1]Centre of excellence Polimat, Slovenia, [2]National Institute of Chemistry Slovenia, Slovenia*
P3.88	**Well-synthesized polyaniline on silane-modified multiwall carbon nanotubes as flexible pseudocapacitors** Y.J. Qian*[1], J.E. Yang[1], Y.S. Kim[1], S.E. Shim[1], *[1]Inha University, Republic of Korea*
P3.89	**Wrinkle-assisted nanoparticle assembly: Fundamentals and applications** M.B. Müller[1], M. Tebbe[1], C. Hanske[1], N. Pazos-Perez[1], M. Karg[1], A. Fery*[1], *[1]University of Bayreuth, Germany*
P3.90	**Effect of structure on thermal behaviour of benzoxazine/imide terminated monomers** N.K. Sini*[1], J. Bijwe[1], I.K. Varma[1], *[1]Indian Institute of Technology Delhi, India*
P3.91	**A novel polymeric resistive humidity sensor with anti-aging and temperature compensation effects** G.H. Ershadi-Oskoi*[1], P. Vadgama[1], *[1]Queen Mary University London, UK*
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P3.107	**Synthesis, characterization and catalytic application of a hybrid network based on MxOy- poly [(4-vinylbenzyl)trimethylammonium chloride]** C.H. Campos[1], B.F. Urbano*[2], B.L. Rivas[2], C.C. Torres[2], P.A. Reyes[2], *[1]Advance Polymers Research Center, Chile,[2]University of Concepcion, Chile*
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