

# 10th Internacional Conference on Frontiers of Polymers and Advanced Materials

September 28 –October 2, 2009, Santiago de Chile

## Poster Session

Wednesday, 30th September, 16:00 hrs

- 1. Synthesis and Characterization of Novel Conjugated Polymer for Organic Optoelectronic Device.** E. Jeong, H. Y. Woo\*, Pusan National University (BK21), Korea
- 2. The Surface Defects of some Composites Based on Starch.** R. M. Coserea, F. Pop, D. Dimonie, C. Duncianu, I."P.Poni", I. Romania, I. Kelnar, Institute of Macromolecular Chemistry, Romania
- 3. Coiled Coil Heterodimers and Hydrophilic Synthetic Polymers: Synthesis, Properties and Applications.** M. Pechar, R. Pola, L. Kostka, K. Ulbrich, L. Bednárová, P. Malon, Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic
- 4. Influence of The Structural Disorder on the Charge Carrier Mobility in Triphenylene Stacking.** M.Mikolajczyk, W.Bartkowiak, P.Toman, Wrocław University of Technology, Poland
- 5. Comparison of Nonlinear Optical Response of Hbonded Chains.** A.Zawada and W.Bartkowiak, Wrocław University of Technology, Poland
- 6. Study of the Lamellae Periodicity of Ptt/Mmt and Pbt/Mmt Injected Molding Nanocomposites by SAXs.** M.M. Favaro and R.E.S. Bretas, Federal University of São Carlos, Brazil
- 7. Study of the Catalytic Activity of the Pom System  $(\text{Na})_{10.5}[(\text{H}_2\text{O})\text{V}_{12}\text{B}_{18}\text{O}_6\text{OH}_6].16\text{H}_2\text{O}$ .** K. Brown P. Aguirre, E. Spodine, V. Paredes-García, D. Venegas-Yazigi, A. Vega, E. Le Fur, University of Chile, Chile
- 8. Effect of Dynamic Vulcanization on the Morphology of Pvc/Nbr Blends.** F.R.Passador and S.M.Gheno, Federal University of São Carlos, Brazil
- 9. Effect of Functionalized Polyprylene (Pp) as Compatibilizer on The Properties Of Multiwalled Carbon Nanotubes (Mwcnt)/PP Nanocomposites.** C. Menzel , M. Yazdani-Pedram, J. Miranda, P. Toro, R. Quijada. University of Chile, Chile
- 10. Photopolymerization of TEGDMA/UDMA Dental Resin: Effect of Resin Matrix Composition on Thermal Stability and Degree of Conversion.** L.C. Santos, R. P. de Carvalho, G.Bannach, E. T. G. Cavalheiro, C. C. S. Cavalheiro, M.G. Neumann, University of São Paulo, Brazil

11. **The Influence of Using Different Montmorillonites on Processing and Rheological Characterization of Polyamide 6 Nanocomposites.** C.A.G.Beatrice, M.M. Favaro, M.C.Branciforti, C.A.G.Beatrice, M.M.Favaro, M.C.Branciforti, Federal University of São Carlos, Brazil
12. **NMR and Conductivity Study of Agar-Based Polymers Electrolytes.** R. I. Mattos, E. Raphael, A. Pawlicka, C.E. Tambelli, C.J. Magon, J. P. Donoso, IQSC, University of São Paulo, Brazil
13. **Study of the Mechanical, Electrical and Glass Transition Behavior of Copper-PMMA Nanocomposites,** V. H. Poblete, M. P. Álvarez, M. S. Díaz, University Technological Metropolitan, Chile
14. **Chitosan-Based Films for Application as Polymeric Electrolytes,** A. Pawlicka, R. I. Mattos, E. Raphael, M. Danczuk, IQSC, Universidade de São Paulo - USP São Carlos Brazil
15. **Morphological Induced Variation of Chemical Reactivity at Ultrathin Polymer Film Surfaces.** E. Meyer and H.-G. Braun, Leibniz Institute of Polymer Research, Germany
16. **Electron Paramagnetic Resonance Study of Cu(II) Intercalated in Bentonite.** O J.P. Donoso, R. Nascimento, J.P. Donoso, C.J. Magon, J.F. Lima, M. Moreno, E. Benavente, G. Gonzalez, IFSC, University of São Paulo, Brazil
17. **Chemical Interactions and Mechanical Properties of Starch/CMC/Montmorillonite Nanocomposite Films.** A. Silva-Weiss, E.G. Garrido, M.L. Mora, V. Bifani, J. Suazo, B.K. Theng, University of the Frontera, Chile
18. **Potassium Intercalation in the Lamellar Phase MnPS<sub>3</sub> Assisted by Microwave Radiation.** P. Valencia-Gálvez, D. Ruiz-Leon, M. Novak, V. Paredes-García, D. Venegas-Yazigi, E. Spodine. University of Chile, Chile
19. **The Influence of Sulphonation Degree on the Thermal Behaviour of Sulphonated Poly(Aryleneethersulfones).** L. Abate, V. Asarisi, I. Blanco, G. Cicala, G. Recca, University of Catania, Italy
20. **Catalytic Properties of a Metal Organic Frameworks (MOF) Based on 1,2,4,5-Tetracarboxylicbenzene Acid.** E. Spodine, P. Cancino, P. Aguirre, V. Paredes-García, D. Venegas-Yazigi. University of Chile, Chile
21. **Composite Polymer Electrolytes Based on Pectin and Sn Nanoparticles.** J.R.Andrade, G. G. Morbioli, A. Pawlicka, IQSC, University of São Paulo, Brazil
22. **Functionalization of Microstructures Fabricated by Two-Photon Absorption Polymerization.** D. S. Corrêa, V. Tribuzi, D. T. Balogh, C. R. Mendonça, University of São Paulo, Brazil
23. **Photoactivated Polymerization of Aniline.** C.A. Barbero, G.M. Morales, M.C. Miras, Universidad Nacional de Rio Cuarto, Argentina

24. **Thermodynamics of Lithium Intercalation In CeO<sub>2</sub>-TiO<sub>2</sub> Thin Films.** A.Pawlicka and C.O.Avellaneda, IQSC, University of São Paulo, Brazil
25. **Preparation and Characterization of Sodium Alginate Based Gel Electrolytes.** Y.O.Iwaki and A.Pawlicka, IQSC, University of São Paulo, Brazil
26. **Thin Films of DNA:Pedot – Electrical and Optical Properties.** V. Kažukauskas, A. Arlauskas, M. Pranaitis, O. Krupka, F. Kajzar, Z. Essaidi, B. Sahraoui. Vilnius University, Lithuania
27. **Characterization of Clay-Dimethacrylate Composites Obtained by In-Situ Photopolymerization.** M.G. Neumann, I.C. Rigoli, C.C. S. Cavalheiro, T. Batista. Universidade de São Paulo, Brazil
28. **Clay/Cassava Starch/Natural Rubber Bionanocomposites.** M. M. Rippel and F. Galembeck, University of Campinas, Brazil
29. **Agar-Based Gel Electrolytes with LiClO<sub>4</sub>.** E. Raphael and A. Pawlicka. IQSC, University of São Paulo, Sao Carlos, Brazil
30. **The Effect of Low Molecular Compatibilizers on the Quality of Cellulose/Pla Blends.** J. Janicki, R. Fryczkowski, B. Fryczkowska, M. Rom, J. Fabia. University of Bielsko- Biala, Poland
31. **Self Assembled Gold Nanoparticles Wires by Discontinous Vertical Colloidal Deposition.** A. Arbaoui, M. Reeves, Z. Hesham, Y. Boughaleb, University Chouaib Doukkali, Morocco
32. **Fabrication of Surface Enhanced Raman Spectroscopy Substrates by Direct Laser Interference Patterning.** C.A. Barbero, D.F. Acevedo, J. Toledo Arana, M. Broglia, A. Lasagni, F. Mucklich, H.J. Salavagione, E. Morallon, Universidad Nacional de Rio Cuarto, Argentina
33. **Synthetic Porous Carbon as Support of Platinum Nanoparticles for Fuel Cell Electrodes.** C.A. Barbero, M.M. Bruno, J. Balach, N.G.Cotella, G. A. Planes, Universidad Nacional de Rio Cuarto, Argentina
34. **Microwave Assisted Combinatorial Synthesis of Acrylamide Monomers.** J.Tuninetti, N.Monge, M.C. Miras, C.A. Barbero, Universidad Nacional de Rio Cuarto, Argentina
35. **Controlling Drug Release from Smart Hydrogels Using Electrostatic and Hydrophobic Interactions With Probe Molecules.** C.A. Barbero, Maria A. Molina, Claudia R. Rivarola, Universidad Nacional de Rio Cuarto, Argentina
36. **Bulding Self-Assembled Multilayers of Nanoporous Carbon Microparticles.** C.A. Barbero, J.M. Balach, N. G. Cotella, D. F. Acevedo, Universidad Nacional de Rio Cuarto, Argentina

37. **Gelatin-Based Electrolytes for Solar Cells.** L.P.Mota and A.Pawlicka, IQSC, University of São Paulo, Sao Carlos, Brazil
38. **Evaluating Environmental Impact Factors as Heavy Metals on Behavior of Temporary Teeth.** I. Demetrescu, D. Ionita, R. Luca, University Politehnica Bucharest, Romania
39. **The Morphology and Barrier Properties of Some LDPE Based Nanocomposites Films.** Z. Vuluga, D. Florea, M. Iorga, C. Radovici, D. M.Vuluga, M. Ionescu, I. Rau, University Politehnica Bucharest, Romania
40. **Electrochemical Stability of Polypyrrole / Ti<sub>6</sub>Al<sub>7</sub>Nb Alloy in Hank Solution for Development of New Biocompatible Surfaces.** C. Pirvu, M. Mihaela, S. Popescu, I. Demetrescu, University Politehnica Bucharest, Romania
41. **BSA/HA Coating on Titanium Alloy in Order to Activate Direct Bond Formation at the Implant Surface.** D.Ionita, M Prodana, I Demetrescu, R. Vasilescu, P.Drob. University Politehnica Bucharest, Romania
42. **Enhancing the Stability of Polypyrrole Film on Titanium Substrate by PEG Incorporation.** C. Pirvu, S. Popescu, M. Mindroiu, I. Demetrescu, University Politehnica Bucharest, Romania
43. **Evaluation of TiO<sub>2</sub> Nanotubes Changes After Ultrasonication Treatment.** I.Demetrescu, C.C. Manole, C. Pirvu, F. Miculescu. University Politehnica Bucharest, Romania
44. **In Situ Polymerization of Nanocomposites Polypropylene/Graphite.** L. S. Montagna, N. R. S. Basso, G. B. Galland. Pontifical Catholic University of Rio Grande do Sul, Brazil
45. **Polyaniline/Graphite Nanocomposites.** N.R.S. Basso, G. Gheno, R. Hübler, Pontifical Catholic University of Rio Grande do Sul, Brazil
46. **Spontaneous Adsorption of Gold Copolymer Nanoparticles on Surfaces Modified with Polyelectrolytes.** A. Leiva, M. Urzúa, X. Briones, C. Saldías, F. Espinoza, Pontifical Catholic University of Chile, Chile
47. **Synthesis and Characterization of Gold-Copolymer Nanoparticles. Influence of the Copolymers Structure.** C. Saldías, A. Leiva, L. Gargallo, D. Radic. Pontifical Catholic University of Chile, Chile
48. **Degradation of Mwcnt During Encapsulation Via Bulk Suspension Polymerization.** E.A. Zaragoza-Contreras, E.D. Lozano-Rodríguez, C.A. Hernández-Escobar, Centro de Investigación en Materiales Avanzados, Chihuahua, México

- 49. Nanostructured Block Copolymers: Order-Order and Order-Disorder Transitions in Model Poly(Butadiene-B-Dimethylsiloxane)** S. M. A. Villar, L. R. Gómez, D. A. Vega, M.D. Ninago, A. E. Ciolino, E. M. Vallés. Planta Piloto de Ingeniería Química, PLAPIQUI (UNS-CONICET), Argentina
- 50. Polyaniline Lithography Using a Combinatorially Synthesized and Screened Amphiphilic Counterion.** M.C. Miras, N. Monge, C.A. Barbero, Universidad Nacional de Rio Cuarto, Argentina
- 51. New Trends in Architecture of Azo-Polymer Materials with Applications in Optical Field.** A.M. Albu and D.S. Vasilescu. University Politehnica Bucharest, Romania
- 52. Photocatalytic Activity of Transition Metal Oxide/Silica Materials Removed From Wastewaters.** M. Mihaly, A.F. Comanescu, A.E. Rogozea, A. Marin, A. Meghea, University Politehnica Bucharest, Romania
- 53. Synthesis, Characterization and Photocatalytic Applications of Nanostructured C60 Silica Materials.** M. Mihaly, A.E. Rogozea, A.F. Comanescu, A. Meghea, University Politehnica Bucharest, Romania
- 54. Synthesis and Characterization of Some Newly Maleimide-Styrene Copolymers Containing Chromophore Units.** F. Nicolescu, V. Jerca, D. Vuluga, D.S. Vasilescu, I. Rau. University Politehnica Bucharest, Romania
- 55. Preparation of Chloromethylstyrene-2- Hydroxyethyl Methacrilate – Cloisite 30B Composite Obtained by “In Situ” Radical Copolymerization.** N. Stanciu, V. Jerca, D. Vuluga, A.M. Albu and M. Teodorescu, University Politehnica Bucharest, Romania
- 56. Influence of Amorphous Silica Into Polypropylene Composites.** L. C. Costa, J. D. Ambósio, H. Otaguro. Universidade Federal de São Carlos, Brazil
- 57. Synthesis and Characterization of Urea Inclusion compounds with Carboxylic Acids and the Interaction with Gold Nanoparticles.** N. Yutronic, E. Lang, L. Barrientos, P. Jara, R. Sierpe, M. Muñoz, University of Chile, Chile
- 58. Fe-Porphyrin Adsorbed and Single-Wall Carbon Nanotubes For Heterogeneous Catalysis.** I. Ruiz-Tagle and W. Orellana. University Andres Bello, Chile
- 59. Nanostructured Au From Polymer/Organometallic Mixtures.** C. Díaz, M. L. Valenzuela, G. A. Carriedo, University of Chile, Chile
- 60. Electrochemical Transducers Based On Polyaniline Nanowires Arrays.** J. Pavez, C. Silva M, C. Vera-Oyarce, M. Páez, J. Silva, I. De Mattos, J. Zagal, University of Santiago, Chile
- 61. Carbon Nanotube Composites: Effect of Dispersing Agent on the Electroactivity of Modified Electrodes.** S. Bollo, K. González, G.A. Rivas, University of Chile, Chile

- 62. Dynamics of Topological Defects in Block Copolymer Membranes.** A. D. Pezzutti, D.A. Vega, M. A. Villar, Universidad Nacional del Sur, Argentina
- 63. Comparative Study of the Reduction of Molecular Oxygen Catalyzed by Fe and Co Macrocyclic Complexes Confined on Gold Modified with Self- Assembled Monolayers of Thiols.** I. Ponce, J. Pavez, M. Paez, J.F. Silva, J.H. Zagal. University of Santiago, Chile
- 64. Preparation of Nickel-Based Electrodes with Activity for Alcohol Oxidation.** M.S. Ureta-Zañartu, T. González, F. Fernández, University of Santiago, Chile
- 65. The Thermal Characterization of Some Novel Random Copolyethersulfones at Various Chain Rigidities.** I. Blanco, L. Abate, G. Cicala, A. Mamo, G. Recca, A. Scamporrino, University of Catania, Italy
- 66. Preparation of Polyethylene/Alpo Nanocomposite Membranes and Their Gas Permeation Properties.** C. Covarrubias and R. Quijada. University of Chile, Chile
- 67. Sulfonated Poly(Urethanes) Containing Silarylene or Germarlyene Moieties. Synthesis and Characterization.** C.A.Terraza, L.H. Tagle, A. Leiva, Pontifical Catholic University of Chile, Chile
- 68. Synthesis and Characterization of Bis(p-(Carboxymethyl) Phenyl) (R)Phenylsilanes as Precursors of Monomers For Preparing Condensation Polymers.** L.H. Tagle, C.A.Terraza, H. Lembach, Pontifical Catholic University of Chile, Chile
- 69. Synthesis and Characterization of BaTiO<sub>3</sub> Nanoparticles in Subcritical Water.** S. Fuentes, R.A. Zarate, E. Chavez, V. Ayala. University Catholic del Norte, Chile
- 70. Molecular Electrodes Based on Vitamin B12 for the Amperometric Detection of Hydroxylamine.** I. Ponce and J. H. Zagal, University of Santiago, Chile
- 71. Molecular Sensors for L-Cysteine Based on Fe Phthalocyanines Confined on Carbon Electrodes.** C. Gutierrez, J.F. Silva, J. Pavez, J. H. Zagal, University of Santiago, Chile
- 72. Unveiling the Structure of Ni/Ni Oxide Nanoparticles System.** V. Lavayen, L. Barrientos, P. Jara, N. Yutronic, University Federico Santa Maria, Valparaiso, Chile
- 73. Vanadium Oxide Nanostructures: Historical Point of View.** V. Lavayen and C. O'Dwyer, University Federico Santa Maria, Valparaiso, Chile
- 74. Theoretical Study DFT of the Phase Change Cubic tetragonal of Barium Titanate.** E. Chavez, R.A. Zarate, S. Fuentes, L. Padilla-Campos, P. Leyton, University Catholic del Norte, Antofagasta, Chile

- 75. Chitosan Chemically Modified with Isophthaloyldichloride Followed by Diethylenetriamine: Synthesis, Characterization and Thermodynamic Data of Lead / Biopolymer Interactions.** E. C. N. Lopes de Lima and C. Airoidi, University of Campinas, Brazil.
- 76. Preparation, Characterization and Effect of Grafted Chitosan with Polyvinylsulfonic Acid as a Template for Crystal Growth of CaCO<sub>3</sub>.** A. Neira-Carrillo, M. Yazdani-Pedram, P. Mercadé Jaque, M. Diaz-Dosque, J. LArias, University of Chile, Chile
- 77. Chitosan Based Solid Polymer Electrolyte for Natural Dye-Sensitized Solar Cell.** A.K. Arof, M.H. Buraidah, L.P. Teo, S.R. Majid, University of Malaya, Malaysia
- 78. Structural and Magnetic Properties of Co-Doped TiO<sub>2</sub> Powders and Thin Films Prepared by a Sol-Gel Method.** L. Alexandrescu, O. Oprea, C. Covaliu, J. Neamtu, G. Georgescu, I. Jitaru, University Politehnica Bucharest, Romania
- 79. Magnetic Properties of Ordered Arrays of Pseudo-Onedimensional Nanostructures With Modulated Diameters.** J.Escrig, C. Morales, K. Pitzschel, J. M. Montero Moreno, O. Albrecht, J. Bachmann, K. Nielsch, University of Santiago, Chile
- 80. Magnetic Properties of Cobalt Nanowire Arrays.** R. Lavín, J. C. Denardin, M, Cornejo, G. González, A. Cortés, H. Gómez, University of Santiago, Chile
- 81. Surfactant-Mediated Variation of Band-Edge Emission in CdS Nanocomposites.** Z. Lopez-Cabaña, C. O'Dwyer, V. Lavayen, N. Mirabal, M.A. Santa Ana, E. Benavente, O. Schops, U. Woggon, C.M. Sotomayor Torres, G. González. University of Chile, Chile
- 82. Tungsten Oxide Nanoparticles Grown in Vapor-Phase.** D. G. Gálvez, D.E. Díaz-Droguett, V.M. Fuenzalida, University of Chile, Chile
- 83. Synthesis of Nanostructured LiMnO<sub>4</sub> Using Porous Oxide Silicon as a Template for Lithium-Ion Batteries.** H. Ahumada and J.L. Gautier, University of Santiago, Chile
- 84. Insights Into the Solid State Luminescent Mechanism of [Hg(O-C<sub>6</sub>F<sub>4</sub>)]<sub>3</sub>.** R.Arratia-Perez, A. Muñoz-Castro, D. Mac-Leod Carey, University Andres Bello, Chile
- 85. Cu Nanostructures Obtained with a Supramolecular Template.** P. Jara, N. Silva, S. Moris, B. Herrera, E. Peña, N. Yutronic, M. Kogan, University of Chile, Chile
- 86. Measurement of Void Content and Distribution in Composite Materials by Quantitative Microscopy.** T.G.Cruz, M.O.H.Cioffi, R.J.Voorwald, UNESP/DMT, Brazil

87. **Quaternary Rare Earth Thiophosphate  $K_2SmP_2S_7$ .** V. Manríquez, A. Galdámez, M.B. Veliz, F. López-Vergara, P Barahona, R. Ávila, University of Chile, Chile
88.  **$^1H$  NMR Studies of Sweet Cherry Fruits (*Prunus Avium*) Wax Components Identified Key Components that May Confers Resistance to Cracking.** J.C.Rios, E. Lang and H. Silva, University Andres Bello. Chile
89. **New Supra-Nanomolecular Systems: Synthesis and Structural Characterization of an Ordered Arrangement of Metallic Nanoparticles onto Supramolecular Complexes.** L. Barrientos, N. Yutronic, P. Jara, M. Gutiérrez, Ma L. Ferrer, F. del Monte, University of Chile, Chile
90. **Local Characterization of Multiferroic Nanoprisms.** E. Ramos-Moore, A.L. Cabrera, C. Keena, D. Lederman, V. M. Fuenzalida, E. Chávez, R.A. Zárate, Pontifical Catholic University of Chile, Chile
91. **Mechanical Properties of Poly(Ethylene Oxide)/Clay-Nanocomposite Films.** M.Moreno, R. Quijada, E. Benavente, G. González. University of Chile, Chile
92. **Block Copolymers PVP/PCL. Nanostructuring in Solution and Interfaces.** A.Leiva, N. Pérez, L. Gargallo, D. Radic, Pontifical Catholic University of Chile, Chile
93. **Synthesis and Potential Applications of Anionic Polyelectrolytes.** M.Urzúa, L. Román, C. Delgado, M. Peña, H.Ríos, University of Chile, Chile
94. **Silicon Modification with Molecules Derived from Ferrocene: Effect of the Silicon Crystallographic Orientation in Electron-Transfer Rates.** G. Riveros, C. Garín, S. Meneses, S. Escobar, University of Valparaíso, Chile
95. **Supramolecular Structure, Thermal and Spectroscopic Properties of a New Coordination Polymer: Catena- bis ( $M_2$ -4,4'-Dipyridyldisulfide- 2 N, N')-bis(Aquo)- Copper(II) Di-Trifluoromethanesulfonate.** I. Brito, J. Vallejos, A. Cárdenas, J. Albanez, D. Vargas, M. López-Rodríguez, University of Antofagasta, Chile
96. **Solvothematic Synthesis and Characterization of Copper Bismuth Oxides.** H.Lozano, C. E. Alarcón, L. C. Moreno-Aldana, J. S. Valencia, University National of Colombia, Colombia
97. **Understanding the Conformation and Morphology of Oligosaccharid Supramolecular Structures.** E.Lang, M. Muñoz, V. Lavayen, L. Barrientos, P. Jara, N. Yutronic, University of Chile, Chile
98. **Inclusion Compounds of Long Chain Amines into  $\alpha$ -Cyclodextrin.** C. Gonzalez, M. Muñoz, P. Jara, N. Yutronic, E. Lang, University of Chile, Chile
99. **Thin Films of Amphiphilic Polyelectrolytes on Aminoterminated Solid Surface.** M. Urzua, X. Briones, A. Leiva, F.Espinoza, University of Chile, Chile

100. **Spontaneous Deposition Of Molybdenum Disulfide on a Gold Surface.** E. Benavente, G. Riveros, N. Casagn, P. Gómez-Romero, M.A. Santa Ana, G. González. University Technological Metropolitan, Chile
101. **Mesostructured Lamellar ZnO Nanocomposites. Optical and Photocatalytic Properties.** J. Arredondo, M. Segovia, E. Benavente, Z. Lopez-Cabaña, G. Gonzalez. University Technological Metropolitan, Chile
102. **Photocatalytic Properties of Mesostructured TiO<sub>2</sub>. Photodegradation of Methylene Blue.** E. Benavente, J. Arredondo, C. Salgado, Z. López-Cabaña, G. González. University Technological Metropolitan, Chile
103. **Hybrid Chitosane Mercaptopropyltrimethoxysilane Films. Synthesis and Properties.** S. Fuentes, V. Ayala, G. Gonzalez, P. Tuyan, E. Benavente, University Catholic del Norte, Chile
104. **Coating of Magnetic Nanowires with Biocompatible Polymer.** M. Cornejo, M.A. Santa Ana, G. Gonzalez Moraga. University of Chile, Chile
105. **Nanocomposites Organic-Inorganic Layered MoS<sub>2</sub>-Amines.** A. Aliaga, J. Poblete, N. Mirabal, E. Benavente, G. Gonzalez. University of Chile, Chile
106. **Wettability of Heat Treated Woods.** A.C. Ziglio, A. Brisolari, R. M. Oliveira, A.C. Soares, D. Gonçalves, University of São Paulo, Brazil
107. **Influence of Parameters on Synthesis of Pani/MnO<sub>2</sub> Composites.** A. J. Motheo, L.D. Bisnha, S.R. Moraes, University of São Paulo, Brazil
108. **Preparation and Properties of Balsa Wood Plastic Composites Made of Recycled Polypropylene.** M.C. Branciforti, A.L. Marinelli, M. Kobayashi, J. D. Ambrosio, M.R. Monteiro, L.C. Costa, A.D. Nobre, DEMa/UFSCar, Brazil
109. **Sugarcane Bagasse Fibers/Hips Composites.** D. R. Mulinari, K. C. C. Carvalho, M. O. H. Cioffi, H. J. C. Voorwald, UNESP/DMT, Brazil
110. **The Mechanizm of Complex Diffraction Efficiency Dynamics of the Holographic Grating Recoring in Azo-Polymer.** A. Sobolewska, S. Bartkiewicz, E. Schab-Balcerzak, Wroclaw University of Technology, Poland
111. **Miscibility and Properties of PVC/ABS Blends in Presence of Maleic Anhydride Functionality.** J.P. Mohammad Hosseinpour, Morshedian, M. Barikani, H. Azizi, Iran Polymer and Petrochemical Institute, Iran
112. **Photodegradation Of Poly(Alkyl Methacrylates) Containing Macroinitiators Based on Thioxanthone,** L. F. A. Pinto, B. E. Goi, M. G. Neumann, C. C. Schmitt. Universidade de São Paulo, Brazil
113. **Biodegradable Polymer Composites.** M. Kobayashi and J. A.M. Agnelli, Federal University of São Carlos, Brazil

114. **Structural Characterization by SAXS Of Blown Films of HDPE/Mmt Nanocomposites Compatibilized with Eva.** J. Marini, M.M. Favaro, M.C. Branciforti, R.E.S. Bretas, PPG-CEM, UFSCar, Brazil
115. **Plasma Polymerized Calixarene Thin Films and Their Sensing Properties to Volatile Organic Vapors.** H. Goktas, F. G. Ince, S. Sen, M. E. Ozel, Z. Ozbek, R. Capan, F. Davis, Canakkale Onsekiz Mart University, Turkey
116. **Dynamics of Structure Transformation in Block Copolymers During Shear Processing.** J.Stasiak, G.D.Moggridge, A.M. Squires, V. Castelletto, I.W. Hamley, University of Cambridge, UK
117. **Synthesis of Control Release Fertilizers with Hydrogel Matrix.** B.Tyliszczak, J. Polaczek, J. Pielichowski, K. Pielichowski, Cracow University of Technology, Poland
118. **Reversible Functionalization of Polyaniline with Azo Linkages.** D.F.Acevedo, C. Glanzmann, M.C. Miras, C.A. Barbero, Universidad Nacional de Rio Cuarto, Argentina
119. **New Catalysts Based on Poly(Aspartic Acid) for Oxidation Reaction.** E.Hebda and J. Pielichowski. Cracow University of Technology, Poland
120. **Modification of Calcium Oxalate Crystal Morphology by New Carboxylated Monomethylitaconate Grafted Polymethylsiloxane.** A. Neira-Carrillo, P. Vasquez-Quitral, M. Yazdani-Pedram, J. Arias, University of Chile, Chile
121. **PLA Membranes Modified With PANI.** R.Fryczkowski, J.Janicki, R. Fryczkowska, University of Bielsko- Biala, Poland
122. **Synthesis of Polythiophene Derivatives and their Application as Sensors for Organochloride Vapors.** V. C. Goncalves and D. T. Balogh, IFSC, University of São Paulo, Brazil
123. **Gel Polymer Electrolyte for Application in Electrochromic Windows.** A.K. Arof, L.P. Teo, M.H. Buraidah, S.R. Majid, University of Malaya, Malaysia
124. **Magnetic Properties of Polypyrrole Pellets Doped with Iron.** E.C.Pereira, L.F.Q. P. Marchesi, F. R. de Paula, A. J. A. de Oliveira, Universidade Federal de Sao Carlos, Brazil
125. **Kinetic Analysis of Polyaniline Formation from Temperature-Time Data Obtained in a Batch Reactor.** D.F. Acevedo, D. Muñoz, M.C. Miras, C.A. Barbero, Universidad Nacional de Rio Cuarto, Argentina
126. **Making a Microwave Driven Actuator by Interpenetration of a Conductive Polymer in a Thermosensitive Hydrogel.** C.A. Barbero, M.A. Molina, C.R. Rivarola, Universidad Nacional de Rio Cuarto, Argentina

127. **Grafting of Oxazoline- Functional Polymer Particles with Azo Dyes.** V.V.Jerca, F. A. Nicolescu, D. S. Vasilescu D. M. Vuluga, Centre for Organic Chemistry C.D. Nenitzescu, Romanian Academy, Romania
128. **Removal of Pesticide from Aqueous Solutions by Adsorption Processes Using, a Biopolymer, Chitin and Chitosan.** M. Bakasse, L. El Gaini, H. El Harmmodi, A.Tolaimate, M. Rhazi, A. Meghea, University Chouaib Doukkali, Morocco
129. **Conformational Dependence of Poly (Maleic Acid-CO- 1-Octene) on Polymer Charge and Ionic Strength. Molecular Dynamics Simulations.** B.E.Weiss-López, V. Bahamonde-Padilla, M. Urzúa, H.Ahumada, University of Chile, Chile
130. **Preparation of Polylactide by Ring-Opening Polymerization of Lactide.** K.Boua-in, N.Chaiyut, B.Ksapabutr, Silpakorn University, Thailand
131. **Biopolymer Thin Films Based on Aligned DNA.** K. Matczyszyn, P. Hanczyc, J.Olesiak, A.Chyla, A.Miniewicz, Wroclaw University of Technology, Poland
132. **Relaxation Properties of Composites Obtained from Polyurethane and Rubber Waste.** W. W. Sułkowski, G. Bartecka, A. Sułkowska, J. Borek, S. Maslanka, A. Danch and M. Moczynski, University of Silesia, Poland
133. **Synthesis and Relaxation Properties of Model Oligoester – Tetrakis(5-Hydroxyethyl)Piromelite.** S. Maslanka, W. W. Sułkowski and A. Sułkowska, University of Silesia, Poland
134. **The Influence of the Type of Catalyst on the Polymer Waste Thermo-Destruction.** W. W. Sułkowski, W. Famulska, A. Sułkowska, M. Moczynski and S. Maslanka, University of Silesia, Poland
135. **Second Order Nonlinear Optical Property of Poly(Hexa-2,4-Diynylene-1,6-Dioxy)Dibenzoate and Cinnamate Containing a Polar Chromophore, 4-N,N-Bis(2-Hydroxyethyl)Amino-3,5-Dimethyl-4'(4'') Nitrophenylazo)Azobenzene.** T.Ogawa, A.Ortega, A.L.Pérez-Martínez, Universidad Nacional Autónoma de México, México
136. **Highly Polarizable Metallic Complexes for Nonlinear Optics.** L.Alexandrescu, L. Craciun, O. Oprea, University of Bucharest, Romania
137. **Nonlinear Optical Absorption of Polyaniline.** D. S. Correa, L. De Boni, D. T. Balogh, C. R. Mendonça, Universidade de São Paulo, Brazil
138. **NLO Properties of Poled Azocarbazole-Epoxy Composites.** J. Niziol and J. Pielichowski, Cracow Technical University, Poland
139. **High-Molecular Weight Poly(Ethylene Glycol)-Cystine: Reducible Polymers for Gene Delivery.** A.Braunová, R.Laga, M.Pechar, T.Etrych, P.Chytil, K.Ulbrich, K.D.Fisher, L.W.Seymour, Institute of Macromolecular Chemistry, Czech Republic

140. **Processing and Characterization of Nano Biocomposites Based on Plasticized PHBV With Organomodified Montmorillonites.** M. C. S. Corrêa, E. Pollet, P. A. P. Nascente, J. A. M. Agnelli, L. Averous. University of Strasbourg, France
141. **Modification of SWY-1 Montmorillonite Surfaces Using Cationic Surfactants: Particles Size Analyzed by Dynamic Light Scattering.** A.L.P.Leves, C.E. Sakoda, F. Gessner, M.G. Neumann, C.C. Schmitt, Universidade de São Paulo, Brazil
142. **Study of the Ibuprofen/Phospholipid Interactions With Langmuir Monolayers.** V. P. N. Geraldo, A. Pavinatto, F. J. Pavinatto, O. N. Oliveira Jr., IFSC, University of São Paulo, Brazil
143. **In Vitro Biocompatibility of Human Endothelial Cells with Collagen-Doxycycline Matrices.** M.G.Albu, I.Titorencu, V.Jinga, M.Simionescu, V. Trandafir, M. Giurginca, I.Antoniac, C.Cotrut, F.Miculescu. Leather and Footwear Research Institute, Romania
144. **Development of Polymeric Nanoparticle of Alginateaot Containing Local Anesthetic Bupivacaine.** L.F.Fraceto, R. Grillo, N.F.S. Melo, D.S. Cocenza, M.S. Silva, L. Sottovia, A.H. Rosa, E. de Paula, State University Julio de Mesquita Filho, Brazil
145. **Characterization of Atrazine Loaded Biodegradable Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Microspheres.** L.F.Fraceto, R.Grillo, N.F.S. de Melo, D.S. Cocenza, M.S. Silva, R.W. Lourenço, A.H.Rosa, State University Julio de Mesquita Filho, Brazil
146. **Therapeutic Effect of Flavonoids Derived from Plantago Sp.** I. Rau, N.Radu, I.Ghita, O.Coman, University Politehnica Bucharest, Romania
147. **Polypyrrole Biosensors Based on Immobilization of Purified Urease and Crude Extract for Urea Detection in Milk Samples.** J.C.Soares, A. Brisolari, V.C.Rodrigues, E. A. Sanches, D. Gonçalves, University of São Paulo, Brazil
148. **Enzymatic Activity of Biosensors Based on Polypyrrole Matrices with Immobilized Tyrosinase for the Analysis of Phenolic Compounds.** A.Brisolari, V.C.Rodrigues, J.C.Soares, D. Gonçalves, University of São Paulo, Brazil
149. **Controlled Drug Delivery Systems Based on Collagen-Doxycycline Crosslinked With Tannic Acid.** M.G. Albu, V.Trandafir, M.Ghica, L.Popa, M.Leca, C.Borlescu, E.Cremenescu, University of Medicine and Pharmacy"Carol Davila", România
150. **Local Anesthetic Tetracaine Loaded PLGA Nanospheres: Physico-Chemical Characterization.** L. F. Fraceto, L. Sottovia, N. F.S. de Melo, R.Grillo, A. H. Rosa, UNESP, Brasil
151. **Characterization of the Antibacterial Process of TiO<sub>2</sub>-B Nanostructures.** A. Zárate, S. León, E. Chávez, S. Fuentes, C. Demergasso, A. Echeverría, D. Díaz, R. Espinoza, University Catholic del Norte, Chile

- 152. Poly(Lactic Acid) Preparation by Polycondensation Method. N.Chaiyu,**  
P.Laonud, B.Ksapabutr, Chulalongkorn University, Thailand
- 153. Use of Crosslinked Chitosans to Make Biocompatible Gold Nanoparticles for a Potential Therapy of Alzheimer's Disease. M. Kogan,** C.Molina, J. Mena, M. Yazdani, A. Neira, E. Araya, Universidad de Chile, Chile
- 154. Biocompatibility: In Vitro Tests of The BR3G – Biovitroceramic. K.R.Pereira,**  
F. H.S. Nunes, E. Neves, C.A. Fortulan, J.M.A. Rollo, University of São Paulo, Brazil
- 155. Biopigments, Obtaining and Properties. I. Rau,** N.Radu, C.Corobea, I. Ghita, O. Coman. University Politehnica Bucharest, Romania
- 156. Synthesis Of Hydrophobic Azopolymers and the Study of their Langmuir and Langmuir-Blodgett (Lb) Films. R.C.Sanfelize,** F.J. Pavinatto, D.T. Balogh, O.N.Oliveira Jr, Instituto de Física de São Carlos, USP - São Carlos- SP - Brazil
- 157. Gelation Process Analysis by Ultrasound Method of a Rigid PVC Compound. H. Finocchio,** E.Hage Jr, R.V. Laurini, A. Rodolfo Jr., Braskem S.A, C. Bertolo and R. Goncalves. PPG-CEM/ UFSCar- Federal University of Sao Carlos, Sao Carlos, Sp, Brazil