

Iranian Polymer Journal
List of Articles (Volume 18, Numbers 1-12, 2009)

Volume 18, Number 1, 2009

- Chemical and Electrochemical Grafting of Polyaniline onto Chitosan*
Hosseini SH, Simiari J, Farhadpour B (Iran) 3
- Impact of Compaction Treatments on PET Yarns Used for Vascular Prostheses Manufacturing*
Ben Abdesslem S, Zbali I, Litim N, and Mokhtar S (Tunisia) 15
- Synthesis, Characterization, Thermal Properties and Conductivity of*
Oligo-4-[(2-methoxyphenylimino)methyl]phenol
Kaya I and Koça S (Turkey) 25
- LDPE/EPDM Blends as Electrical Insulators with Unique Surface, Electrical and*
Mechanical Properties
Ehsani M, Zeynali ME, Abtahi M, and Harati AA (Iran) 37
- Monte Carlo Technique to Simulate Amide Interchange Reactions: An Improved Model*
of PA6/PA66 Blending System
Wang C, Li M, Wang H, Wang X, and Filippini-Fantoni R (PR China & Brazil) 49
- Hydrogels in Controlled Drug Delivery Systems*
Ganji F and Vasheghani-Farahani E (Iran) 63
- Electrospinning Assisted by Gas Jet for Preparing Ultrafine Poly(vinyl alcohol) Fibres*
Liu W, Yao Y, Lin Y, Wang B, Luo Y, Li N, Zhang Q, Wu Y, and Niu A (PR China) 89

Volume 18, Number 2, 2009

- Polyethylene Cross-linking by Two-step Silane Method: A Review*
Morshedian J and Mohammad Hoseinpour P (Iran) 103
- Biocompatibility and Biodegradation of Poly(D,L-lactic-co-glycolic acid) 90/10:*
In Vitro and In Vivo Assays
Yang N, Li Y, Gong Y, Liu W, Xue H, Zhao J, Shao Q, and Li W (PR China) 129
- Effects of Different Particle Sizes of Recycled Acrylonitrile-butadiene Rubber and its Blend Ratios*
on the Mechanical and Morphological Properties and Curing Characteristics of SBR/NBRr Blends
Zulkepli NN, Ismail H, and Rashid A (Malaysia) 139
- Effects of the Filler Type and Quantity on the Flashover Voltage and Hydrophobicity of*
RTV Silicone Rubber Coatings
Farhang F, Ehsani M, and Jazayeri SH (Iran) 149
- Preparation of Epoxy Modified Polysiloxane Microemulsions*
Liu J, Wu S, Huang S, Cong P, and Mi Y (PR China) 159
- Study of Non-isothermal Crystallization Kinetics of Single-walled Carbon Nanotubes Filled*
Polypropylene Using Avrami and Mo Models
Razavi-Nouri M (Iran) 167
- Vinyl Ester Polymers Containing Ibuprofen Pendant Groups: Synthesis, Characterization, and Evaluation*
Babazadeh M and Mosanejhad T (Iran) 179

Volume 18, Number 3, 2009

- Poly(vinylpyridine) Supported Reagents: A Review*
Tamami B and Parvanak Borujeni K (Iran) 191
- Polymer-modified Bitumen from the Wastes of Petrochemical Plants*
Yousefi AA (Iran) 207
- Preparation and Characterization of Schiff Base Polythioamides Derived from [4,4'-Methylenebis(cinnamaldehyde)] by Willgerodt-Kindler Reaction*
Shah A, Khuhawar MY, and Shah AA (Pakistan) 217
- Influence of Menthol Absorption on the Mechanical Properties of PET Bottles*
Farhoodi M, Emam-Djomeh Z, Oromiehie AR, and Ehsani MR (Iran) 227
- A Simplified Approach to Fatigue Damage Modelling of Composite Laminates with Stress Concentration: Regional Elements Model*
Shokrieh MM and Haghighi Yazdi M (Iran) 233
- Study on the Water Absorption and Hardness of Phenolated Oil Palm Empty Fruit Bunches (PEFB)-base Biocomposite*
Ahmadzadeh A and Zakaria S (Malaysia) 247
- The Thermolysis Behaviours of the First Generation Dendritic Polyamidoamine*
Zheng P, Gao L, Sun X, and Mei S (PR China) 257
- Fabrication and Characterization of Polycaprolactone/Chlorophyllin Sodium Copper Salt Nanofibrous Mats from 2,2,2-Trifluoroethanol Solution by Electrospinning*
Qian Y, Li X, Su Y, Ke Q, and Mo X (PR China) 265

Volume 18, Number 4, 2009

- Silicone Polymers in Controlled Drug Delivery Systems: A Review*
Mashak A and Rahimi A (Iran) 279
- Tubular Scaffold Design of Poly (L-lactic acid) for Nerve Tissue Engineering: Preparation, Characterization, and In Vitro Assay*
Khorasani MT, Mirzadeh H, Talebi A, Irani S, and Daliri M (Iran) 297
- Synthesis and Characterization of Karaya Gum/Chitosan Composite Microspheres*
Zhang J, Du Z, Xu S, and Zhang S (PR China) 307
- Improving Torsional Behaviour of Reinforced Concrete Beams Strengthened with Carbon Fibre Reinforced Polymer Composite*
Mohammadzadeh MR, Fadaee MJ, and Ronagh HR (Iran & Australia) 315
- Non-isothermal Crystallization Kinetics of AB₃ Hyper-branched Polymer/Polypropylene Blend*
Liu G and Zhao M (PR China) 329
- Synthesis, Characterization, and Drug Release Behaviour of Novel Soy Protein/Poly(acrylic acid) IPN Hydrogels*
Liu Y, Cui Y, Yin G, and Ma H (PR China) 339

Volume 18, Number 5, 2009

- Efficacy of Thermosensitive Hydroxybutyl Chitosan in Prevention of Post-operative Abdominal Adhesions in a Rat Model*
Wei C, Hou C, Gu Q, Jiang L, Zhu B, and Sheng A (PR China) 355
- Synthesis of Silica/Polyolefin Nanocomposites via Two-step Method*
Cheng W, Miao W, Peng J, Zou W, and Zhang L (PR China) 365
- Crystallization Kinetics and Morphology of iso-PP/Ethylene-propylene-b-copolymer/Ethylene-propylene-r-copolymer Ternary Blends*
Cao M, Xu J-T, Dong Q, Fu Z-S, and Fan Z-Q (PR China) 373
- Synthesis and Characterization of Potential Fungicidal Silver Nano-sized Particles and Chitosan Membrane Containing Silver Particles*
Velmurugan N, Kumar GG, Han SS, Nahm KS, and Lee YS (Republic of Korea) 383
- Modification of Bioscourced Cotton Cellulose by Grafting and Hydrolysis Process*
Anand AV and Thambidurai S (India) 393
- Preparation of High-performance Damping Materials Based on Carboxylated Nitrile Rubber: Effects of Organic Fillers*
Liu Q, Zhang H, and Yan X (PR China) 401
- Effects of Different Activator Systems on Cure Characteristics and Physicomechanical Properties of a NR/SBR Blend*
Taghvaei-Ganjali S, Malekzadeh M, Abbasian A, and Khosravi M (Iran) 415

Volume 18, Number 6, 2009

- Non-isothermal Cure Kinetics of Diglycidyl Ether of Bisphenol-A with Various Aromatic Diamines*
Barghamadi M, Ghaemy M, and Alizadeh R (Iran) 431
- Thermal Properties and Flame Retardancy of Epoxy Resins Modified with Polysiloxane Containing Epoxy Groups and Redistributed Poly(2,6-dimethyl-1,4-phenylene) Chains*
Liu Y, Liu W, and Yu D (PR China) 445
- Supramolecular Structure of Poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV) Probed Using Wide-angle X-ray Diffraction and Photoluminescence*
Ou-Yang W-C, Wu T-Y, and Lin Y-C (Taiwan) 453
- Thermal Behaviour and Improved Properties of SBR and SBR/Natural Bitumen Modified Bitumens*
Zhang J, Wang J, Wu Y, Sun W, and Wang Y (PR China) 465
- Preparation and Properties of UHMWPE/SiO₂ Hybrid Hollow Fibre Membranes via Thermally Induced Phase Separation-stretching Method*
Li N and Xiao C (PR China) 479
- Physico-chemical Properties of Phosphoryl Chloride Cross-linked Wheat Starch*
Majzoobi M, Radi M, Farahnaky A, Jamalian J, and Tongdang T (Iran & Thailand) 491
- Effect of Shell Materials on Microstructure and Properties of Microencapsulated n-Octadecane*
Gong C, Zhang H, and Wang X (PR China) 501

Volume 18, Number 7, 2009

- Gas Phase Polymerization of Butadiene on Heterogenized Cobalt-containing Catalytic Dithiosystems*
Nasirov FA, Novruzova FM, Salmanov SS, Azizov AH, and Janibayov NF (Republic of Azerbaijan) 521
- Thermally Stimulated Discharge Current Spectra and UV-vis Absorption in Polymethylmethacrylate Electret*
Shukla P and Gaur MS (India) 535
- Failure Prediction of Polychloroprene in Contact with Various Solvents*
Piroozfar H and Lara J (Iran & Canada) 543
- The Influence of Carbon Fibre Content on the Tribological Properties of Thermoplastic Poly(vinylidene fluoride) Composites*
Li J and Li X (PR China) 551
- Thermoresponsive Microfiltration Membranes Prepared by Atom Transfer Radical Polymerization Directly from Poly(vinylidene fluoride)*
Lin F, Li Q, Jiang D, Yu X, and Li L (PR China) 561
- The Effect of Alternative Blowing Agents on Microstructure and Mechanical Characteristics of Rigid Polyurethane Foam*
Esmaeilnezhad E, Rezaei M, and Razavi MK (Iran) 569
- Non-isothermal Crystallization Kinetics of Cationic Vinyl Monomer with Quaternary Ammonium Group Grafted Polypropylene/Polypropylene Blends*
Liu G and Zhao M (PR China) 581
- Preparation of Ultra High Molecular Weight Polyethylene Using Bi-supported SiO₂/MgCl₂ (spherical)/TiCl₄ Catalyst: A Morphological Study*
Zohuri GH, Ahmadi Bonakdar M, Damavandi S, Eftekhari M, Askari M, and Ahmadjo S (Iran) 593

Volume 18, Number 8, 2009

- Effect of Mixing Conditions and Particle Sizes of Titanium Dioxide on Mechanical and Morphological Properties of Polypropylene/Titanium Dioxide Composites*
Wacharawichanant S, Thongyai S, Siripattanasak T, and Tipsri T (Thailand) 607
- Polypropylene Fibre Grafted Styrene-divinylbenzene Copolymers Post-cross-linked with Cyanuric Chloride*
Zhang Y and Li D (PR China) 617
- Removal of Ni(II) From Synthetic Solutions Using New Amine-containing Resins Based on Polyacrylonitrile*
Arsalani N, Rakh R, Ghasemi E, and Entezami AA (Iran) 623
- Fabrication and Evaluation of Electrical Properties of Poly(1,8-diaminonaphthalene) Based Schottky Diode*
Nateghi MR, Mehralian F, Borhani Zarandi M, and Mosslemineh MH (Iran) 633
- Finite Element Modelling of the Steady Rolling of a Radial Tyre with Detailed Tread Pattern*
Ghoreishy MHR (Iran) 641
- Synthesis, Characterizations, and Thermo-optical Properties of Poly(urethane-imide) Based on Azo-disperse Dye in Its Side Chains*
Qiu F, Yang D, and Li P (PR China) 651

- Synthesis and Grafting Efficiency of Poly(vinyl alcohol)-graft-Fibroin Peptides*
Wang Q and Qi L (PR China) 663
- Characterization of Poly(butylene Terephthalate) Electrospun Nanofibres Containing Titanium Oxide*
Saeed K, Park S-Y, and Ali N (Pakistan & South Korea) 671
- Volume 18, Number 9, 2009**
- Long-term Water Absorption Behaviour of Polypropylene/Wood Flour/Organoclay Hybrid Nanocomposite*
Ghasemi I and Kord B (Iran) 683
- Tensile Properties of Polycarbonate Coated Natural Fabric Sterculia Urens: Effect of Coupling Agent*
Jayaramudu J, Prasad Reddy DJ, Guduri BR and Varada Rajulu A (India & South Africa) 693
- Organic Montmorillonite Modified Polyacrylate Nanocomposite by Emulsion Polymerization*
Wu L, Wang M, Zhang X, Chen D, and Zhong A (PR China) 703
- The Effect of Weathering on the Flow, Microstructure and Physico-mechanical Properties of ABS*
Salari D, Olad A, Niaei A, and Ranjbar H (Iran) 713
- Synergistic Flame Retardant Effect of Lanthanum Oxide in Ethylene-vinyl acetate/Aluminium Hydroxide Composites*
Jiao C and Chen X (PR China) 723
- Triazine-based Dendrimers as Liquid Crystals: Synthesis and Characterization*
Didehban Kh, Namazi H, and Entezami AA (Iran) 731
- Synthesis of α,ω -Di((N-ethyl)amino(2-methyl)propyl) Polydimethylsiloxane and Novel Siloxane-containing Epoxy Resin*
Sun W-B and Zhang C-C (PR China) 743
- The Effect of Cobalt Naphthenate and 2-Hydroxy-4-methoxybenzophenone on Photo-oxidative Degradation of LDPE*
Eltayeb E, Barikani M, Mahdavian AR, and Honarkar H (Iran) 753
- Volume 18, Number 10, 2009**
- Direct Preparation of a Novel Membrane from Unsubstituted Cellulose in NaOH Complex Solution*
Zhang S, Fu C-F, Li F, Yu J, and Gu L (PR China) 767
- Effects of Non-solvent Type and Purification Process on Precipitation Polymerization of Acrylic Acid in Organic Media*
Bouhendi H, Haddadi-Asl V, and Rafizadeh M (Iran) 777
- Ferrous-persulphate Induced Graft Copolymerization of Monomer Mixtures onto Saccharum spontaneum-L Natural Fibre*
Kaith BS, Jindal R, Jana AK, and Maiti M (India) 789
- Self-assembling Peptide RADA16 Nanofibre Scaffold for a Cancer Cell Three-dimensional Culture*
Mi K, Feng Z, Liu Z, Wang G, Xing Z, Huang B, and Zhao X (PR China) 801
- Layer-by-layer Assembly of Acrylate Copolymers and CdTe Nanoparticles*
Jiang C, Yang N, Wang X, Chen D, and Zhong A (PR China) 811
- An Eco-friendly Synthesis of A Terpolymer Resin: Characterization and Chelation Ion-exchange Property*
Azarudeen RS, Riswan Ahamed MA, Jeyakumar D, and Burkanudeen AR (India) 821

<i>Maleic Anhydride Grafting onto HDPE by In situ Reactive Extrusion and its Effect on Intercalation and Mechanical Properties of HDPE/Clay Nanocomposites</i> Mehrabzadeh M, Kamal MR, and Quintanar G (Iran & Canada)	833
Volume 18, Number 11, 2009	
<i>Graft Copolymerization of Styrene onto Poly(vinyl alcohol) Initiated by Potassium Diperoxodisulfate(III)</i> Bai L, Wang C, Jin J, and Liu Y (PR China)	847
<i>The Accuracy of Approximation Equations in the Study of Thermal Decomposition Behaviour of Some Synthesized Optically Active Polyamides</i> Mallakpour S and Taghavi M (Iran)	857
<i>PDMS Coated Polyethersulphone Composite Membranes for Separation of Propylene and Nitrogen Gas Mixtures</i> Madaeni SS, Moradi A, and Kazemi V (Iran)	873
<i>Tribological Properties of Poly(vinyl alcohol) Hydrogel in Response to Ceramic Femoral Component</i> Li F, Wu G, Wang J, and Wang C (PR China)	881
<i>Morphology and Performance of Polyvinylidene Fluoride/Perfluorosulphonic Acid Hollow Fibre Ultrafiltration Blend Membranes</i> Yuan G-L, Xu Z-L, Wei Y-M, and Yu L-Y (PR China)	891
<i>UV-curable Polyurethane Coatings Derived from Cellulose</i> Patel MM, Patel KI, Patel HB, and Parmar JS (India)	903
<i>Physico-mechanical Properties of PF Composite Board from EFB Fibres Using Liquefaction Technique</i> Chai L-L, Zakaria S, Chia C-H, Nabihah S, and Rasid R (Malaysia)	917
Volume 18, Number 12, 2009	
<i>Effect of Silane Modified SiO₂ Particles on Poly(MMA-HEMA) Soap-free Emulsion Polymerization</i> Kang J-S, Yu C-L, and Zhang F-A (PR China)	927
<i>Development of Tramadol Microparticles by Non-solvent Addition Method and their In Vitro Characterization</i> Aamir MN and Ahmad M (Pakistan)	937
<i>NMR Study of Polyacrylamide Tacticity Synthesized by Precipitated Polymerization Method</i> Ziaee F, Bouhendi H, and Ziaie F (Iran)	947
<i>Synthesis and Applications of Cross-linked Poly(N- bromomaleimide) in Oxidation of Various Organic Compounds</i> Tamami B, Nasrolahi Shirazi A, and Ebrahimzadeh F (Iran)	957
<i>Ethylene/1-Octene Copolymerization over Ga-modified SiO₂-supported Zirconocene/MMAO Catalyst Using In Situ and Ex Situ Impregnation Methods</i> Wannaborworn M and Jongsomjit B (Thailand)	969
<i>IPJ List of Reviewers (2009)</i>	981
<i>List of Articles (Volume 18 Numbers 1-12, 2009)</i>	993