Volume 20, Number 1, 2011

Structure and Properties of Alkaline Lignin-filled Poly(butylene succinate) Plastics
Fan D, Chang PR, Lin N, Yu J, and Huang J (P.R. China & Canada) 3

The Effects of Carbon Black-based Interactions on the Linear and Non-linear Viscoelasticity of Uncured and Cured SBR Compounds
Karrabi M and Mohammadian-Gezaz S (Iran) 15

Effect of Conformational Parameters on Thermal Properties of Some Poly(oxadiazole-naphthylimide)s
Rusu R-D, Damaceanu M-D, Bruma M, and Ronova IA (Romania & Russia) 29

Effect of Processing Parameters on PP/EPDM/Organoclay Nanocomposites Using Taguchi Analysis Method
Khosrokhavar R, Naderi G, Bakhshandeh GR, and Ghoreishy MHR (Iran) 41

Synthesis and Characterization of Epoxidized Acrylated Natural Rubber Cross-linked by Star-shaped Polystyrene
Zhang X, Chen L, Zhang Q, Huang Y, and Li J (P.R. China) 55

Synthesis and Characterization of High Molecular Weight Polyacrylamide Nanoparticles by Inverse-emulsion Polymerization
Barari M, Abdollahi M, and Hemmati M (Iran) 65

Synthesis and Polymerization of Vinyl Saccharides "as Glycomonomers" Bearing 2,3:5,6-Di-O-isopropylidene-α-D-mannofuranose
Namazi H and Salimi F (Iran) 77

Volume 20, Number 2, 2011

Optimization of Acrylic Acid Grafting onto POSS-PCU Nanocomposite Using Response Surface Methodology
Solouk A, Solati-Hashjin M, Najarian S, Mirzadeh H, and Seifalian AM (Iran & UK) 91

Influence of Polymer Blending on Crystalline Structure of Polyvinylidene Fluoride
Yousef AA (Iran) 109

Synthesis and Characterization of Chitosan-based Schiff Base Compounds with Aromatic Substituent Groups
Jiao TF, Zhou J, Zhou JX, Gao LH, Xing YY, and Li XH (P.R. China) 123

Acrylonitrile/Styrene/Acrylate Structural Rubber Latex Particles as Impact Modifier for SAN Copolymer
Moghbeli MR and Tolue S (Iran) 137

Synthesis and Characterization of pH-Sensitive Pectin/Acrylic Acid Hydrogels for Verapamil Release Study
Ranjha NM, Mudassir J, and Zubair Sheikh Z (Pakistan) 147
DSC Analysis of Thermosetting Polyimides Based on Three Bismaleimide Resin Eutectic Mixtures
Fallahi A, Rajabi L, and Afshar Taromi F (Iran) 161

Volume 20, Number 3, 2011

Super-algogels Based on 2-Acrylamido-2-methylpropane Sulphonic Acid and Poly(ethylene glycol) Macromer
Kabiri K, Azizi A, Zohuriaan-Mehr MJ, Bagheri Marandi G, Bouhendi H, and Jamshidi A (Iran) 175

A pH/Thermo-responsive Injectable Hydrogel System Based on Poly(N-acryloylglycine) as a Drug Carrier
Deng K, Li Q, Bai L, Guo Y, Dong L, Huang C, Wang S, and Gao T (P.R. China) 185

Optimization of Reaction Conditions for Carboxymethylated Sago Starch
Yaacob B, Mohd Amin MCI, Hashim K, and Abu Bakar B (Malaysia) 195

Monte Carlo Simulation of Photo-initiated Bulk Polymerization of Furfuryl Methacrylate
Mahjub AR, Salami-Kalajahi M, Haddadi-Asl V, and Roghani-Mamaqani H (Iran) 205

Effect of Temperature on Polystyrene Tacticity Through Para Aromatic Carbon Splitting in $^{13}$C NMR Spectroscopy
Ziaee F and Salehi Mobarakhe H (Iran) 213

Temperature-structure Dependence of Poly(1-octene-co-t-butyl acrylate) Prepared by Conventional Free Radical Polymerization
Fu Z, Fan Y, and Fan Z (P.R. China) 223

l-Lactide Additive and in Vitro Degradation Performance of Poly(l-lactide) Films
Mobedi H, Mashak A, Nekoomanesh M, and Orafai H (Iran) 237

Synthesis and Characterization of Trichlorophenol-blocked Polyaryl Polyisocyanate
Lou C, Gu J, Di M, Ma L, Wang Y, and Liu X (P.R. China) 247

Volume 20, Number 4, 2011

High Performance Polymers in Ionic Liquid: A Review on Prospects for Green Polymer Chemistry. Part II: Polyimides and Polyesters
Mallakpour S and Dinari M (Iran) 259

Effect of the Coupling Agent and Interfacial Modifiers on Mechanical Properties of Poly (Lactic Acid) and Wood Flour Biocomposites
Wang Y, Qi R, Xiong C, and Huang M (P.R. China) 281

Conductivity and Solubility of Nanostructur Poly ($\alpha$-Naphthylamine-co-Aniline) Prepared by Interfacial Polymerization
Massoumi B, Entezami AA, and Aghili H (Iran) 295
Improvement of Poly(Vinyl Alcohol) Adhesives With Cellulose Microfibre from Sugarcane Bagasse
Jonjankiat S, Wittaya T, and Sridach W (Thailand) 305

Conductive and Biodegradable Polyaniline/Starch Blends and Their Composites with Polystyrene
Nazarzadeh Zareh E, Najaﬁ Moghadam P, Azariyan E, and Sharifian I (Iran) 319

Synthesis and Properties of Photopolymerized pH-Sensitive Hydrogels of Methacrylic Acid and
Biodegradable PEG-b-PCL Macromer
Zhao S-P, Cao M-I, Li L-Y, and Xu W-L (P.R. China) 329

Volume 20, Number 5, 2011

Morphology and Mechanical Properties of an Elastomeric Poly(HIPE) Nanocomposite Foam Prepared
via an Emulsion Template
Moghbeli MR and Shahabi M (Iran) 343

Poly(vinyl alcohol)/Hydrotalcite Composite Nanofibre: Preparation and Characterization
Zhuo Q, Xu G, Wang J, Qin C, and Dai L (P.R. China) 357

Performance of Polyaniline/TiO2 Nanocomposites in Epoxy for Corrosion Resistant Coatings
Mahulikar PP, Jadhav RS, and Hundiwale DG (India) 367

Oxidized Polypropylene Wax in Polypropylene Nanocomposites: A Comparative Study on Clay Intercalation
Salimi A, Mirabedini SM, Atai M, and Mohseni M (Iran) 377

Electrospun Silk Fibroin/Cellulose Acetate Blend Nanofibres: Structure and Properties
Zhou W, He J, Du S, Cui S, and Gao W (P.R. China) 389

Numerical and Experimental Evaluations of the Flammability and Pyrolysis of a Resole-based Nanocomposite
by Cone Calorimeter
Bahramian AR and Kokabi M (Iran) 399

Nanocomposites of Cellulose/Carbonated Hydroxyapatite by Microwave-assisted Fabrication in Ionic Liquid:
Characterization and Thermal Stability
Ma M-G, Jia N, Li S-M, and Sun R-C (P.R. China) 413

Thermal Degradation of Poly(vinyl chloride): Effect of Nanoclay and Low Density Polyethylene Content
Saeedi M, Ghasemi I, and Karrabi M (Iran) 423

Nanofibrils from Nylon 6/Polypropylene-g-maleic anhydride/Polypropylene Blended Filaments
Fallahi E, Barmar M, and Haghighat Kish M (Iran) 433

Reinforcement of Chitosan Nanoparticles Obtained by an Ionic Cross-linking Process
Hasanzadeh Kafshgari M, Khorram M, Khodadoost M, and Khavari S (Iran) 445
Volume 20, Number 6, 2011

Dithioester-mediated RAFT Polymerization: A Kinetic Study by Mathematical Modelling
Salami-Kalajahi M, Haddadi-Asl V, Ganjeh-Anzabi P, and Najafi M (Iran) 459

Composite Hydrogel Beads Based on Chitosan and Laponite: Preparation, Swelling, and Drug Release Behaviour
Yang H, Hua S, Wang W, and Wang A (P.R. China) 479

Soluble and Thermally Stable New Pyridine-based Poly(Ether Imide)s Synthesized Through Conventional and Ionic Liquid Methods
Gharekhani E, Mehdipour-Ataei S, and Taghi-Ganj M (Iran) 491

Thermal Treatment Effect on Transcrystalline Interphase and Interfacial Shear Strengths of Glass Fibre/ Polypropylene Composites
Li Y, Lin Q, and Zhou X (P.R. China) 503

Molecular Weight Bimodality of Ethylene/1-Butene in A Two-step Polymerization Process: Effects of Polymerization Conditions
Moballegh L and Hakim S (Iran) 513

Direct Condensation of d,l- and l-Lactic acids: Effect of AlCl3 Catalyst on Microstructural Arrangements of Homopolymers and Copolymers
Nagarajan S, Tsibouklis J, and Reddy BSR (India & UK) 523

Volume 20, Number 7, 2011

Copolymer of Acrylonitrile/Acrylic Acid Film Dendrigrafted with Citric Acid: Host/Guest Properties of Dendrigraft/Dye Complexes in Relation to Acrylic Acid Content
Akbari S, Haghighat Kish M, and Entezami AA (Iran) 539

Poly(vinyl alcohol)/Oxidized Starch Fibres via Electrospinning Technique: Fabrication and Characterization

The Function of Nano-polystyrene Template and Comb Polycarboxylic Acid Surfactant in Synthesis of ZnS Nanoparticles via Hydrothermal Method
Arabi AM, Ebadzadeh T, Yousefi AA, Pishvaei M, Marzban Rad E, and Najafi F (Iran) 559

Basalt Fibres/Polyurethane Interfacial Adhesion Through Modification of Basalt Fibres by Block Copolymers
Ying S and Zhou X (P.R. China) 571

Glycidyl Methacrylate Polymers Containing Indole Groups: Synthesis and Characterization
Nasiritabarzi MH, Mohebalizadeh S, and Parchehbaf Jadid A (Iran) 579

Optimal Parameter Design by Taguchi Method for Mechanical Properties of NBR/PVC Nanocomposites
Esmizadeh E, Naderi G, Ghoreishy MHR, and Bakhshandeh GR (Iran) 587
Stereocontrol in Radical Polymerization of Acrylamides with Combined Lewis Acids of AlCl3-FeCl2
Zhang J, Yue G, Li Z, Feng Y, Sang Q, Zhao J, and Feng Y (P.R. China)

Poly(n-butyl acrylate)/Poly(vinyl acetate-co-methyl methacrylate) Structural Rubber Latex Particles as Impact Modifier for Unsaturated Polyester Resin: Preparation and Characterization
Mohgbeli MR, Bakhshandeh F, and Ahmadi M (Iran)

Volume 20, Number 8, 2011

Highly Enhanced Electrical Conductivity and Thermal Stability of Polythiophene/Single-walled Carbon Nanotubes Nanocomposite
Kiani GR, Sheikhloie H, and Rostami A (Iran)

Synthesis, Characterization and Optical Properties of Poly(4,4’-dioctyloxy-3,3’-biphenylene vinylene) Copolymers
Sannasi V, Gnana Sundararaj B, Meenakshi S, and Jeyakumar D (India)

Fabrication of Poly(urethane urea)-based Scaffolds for Bone Tissue Engineering by a Combined Strategy of Using Compression Moulding and Particulate Leaching Methods
Shokrolahi F, Mirzadeh H, Yeganeh H, and Daliri M (Iran)

Damping Properties of A Novel Soft Core and Hard Shell PBA/PMMA Composite Hydrosol Based on Interpenetrating Polymer Networks
Wan L-Y, Chen L-P, Xie X-L, Li Z-P, and Fan H-Q (P.R. China)

A Novel Topical Biocompatible Tissue Adhesive Based on Chitosan-modified Urethane Pre-polymer
Nayeb-Habib F, Salahshoor-Kordestani S, Afshar-Taromi F, and Shariatinia Z (Iran)

Covalently Bonded PE/SiO2 Nanocomposites Synthesized by Reactive Extrusion
Cheng W, Miao W, Zhang LQ, and Peng J (P.R. China)

Mathematical Modelling and Phase Separation Kinetics of Polystyrene/Polyvinylmethylether Blend
 Parsa MA, Ghiass M, and Mohgbeli MR (Iran)

Volume 20, Number 9, 2011

Synthesis and Applications of Poly(N-vinylimidazole) Grafted Silica-containing Palladium Nanoparticles as a New Re-cyclable Catalyst for Heck, Sonogashira and Suzuki Coupling Reactions
Tamami B, Allahyari H, Farjadian F, and Ghasemi S (Iran)

Structure and Mechanical Properties of Electrospun Tussah Silk Fibroin Nanofibres: Variations in Processing Parameters
He J, Guo N, and Cui S (P.R. China)

Hybrid Polyvinylidene Fluoride/Nanoclay/MWCNT Nanocomposites: PVDF Crystalline Transformation
Yousefi AA (Iran)
Prediction of Fracture Toughness for Open Cell Polyurethane Foams By Finite-element Micromechanical Analysis
Linul E and Marsavina L (Romania) 735

Copolymerization of Pyrrole with N-Pentyl and N-Dodecylpyrrole: The Electroactivity, Conductivity and Morphology of Nanocopolymers in Relation to Monomeric Composition
Massoumi B, Lesani H, Saraei M, and Entezami AA (Iran) 747

Surface Properties of a Reverse Osmosis Membrane Undergoing Grafting Process
Yao Y, Wu Y, and Xiang R (P.R. China) 757

Poly(vinylidene dichloride)-diethylene Triamine Supported Palladium as a New Re-cyclable Catalyst for Heck Reaction
Zhang L, Xu Y, and Cui Y (P.R. China) 769

Volume 20, Number 10, 2011

Poly(N-octadecylaniline) Synthesis and its Electrochemical Parametric Characterizations
Massoumi B, Badalkhani O, Gheybi H, and Entezami AA (Iran) 779

Multiwalled-carbon Nanotubes/Poly (butylene terephthalate) Nanofibres: Morphological, Mechanical and Thermal Properties
Saeed K and Park S-Y (Pakistan & South Korea) 795

Poly(methyl methacrylate-co-butyl acrylate)/Organophosphate-modified Montmorillonite Composites
Sirapanichart S, Monvisade P, Siriphannon P, and Nukeaw J (Thailand) 803

Production of Polypropylene-reinforced Asphalt Concrete Mixtures Based on Dry Procedure and Superpave Gyratory Compactor
Abtahi SM, Ghorban Ebrahimi M, Kunt MM, Hejazi SM, and Esfandiarpour S (Iran & North Cyprus (Turkey)) 813

Vinyl Functional Polysiloxane In Microemulsion : Preparation and Characterization
Liu J, Huang S, and Li D (P.R. China) 825

Mechanical and Electrical Properties of Epoxy/Multi-walled Carbon Nanotube/Nanoclay Nanocomposites
Ayatollahi MR, Shokrillie MM, Shadlou S, Kefayati AR, and Chitsazzadeh M (Iran) 835

A Nano-hybrid Silver Colloidal Suspension Preparation
Zhao J, Xie X, and Zhou X (P.R. China) 845

Volume 20, Number 11, 2011

Nano-attapulgite Functionalization by Silane Modification for Preparation of Covalently-integrated Epoxy/TMPTMA Nanocomposites
Duan J, Shao S, Jiang L, Li Y, Jing P, and Liu B (P.R. China) 855

Effects of Electron Beam Irradiation on Properties of ETFE Insulated Electric Wire
Park E-S (South Korea) 873
Aqueous Dispersion Polymerization of Acrylamide in Ammonium Chloride Solution with Water-soluble Chitosan as a Stabilizer
Liu J, Wang C, and Wu Y (P.R. China) 887

High Performance Bulky α-Diimine Nickel(II) Catalysts for Ethylene Polymerization
Vatankhah-Varnoosfaderani M, Pourmahdian S, and Afshar-Taromi F (Iran) 897

Kinetics of Graft Copolymerization of Acrylic Acid onto Cannabis indica Fibre
Singha AS and Rana AK (India) 913

Synthesis of Poly(n-butyl acrylate) Homopolymers by Activators Generated by Electron Transfer (AGET) ATRP Using FeCl3·6H2O/Succinic Acid Catalyst
Wang G (P.R. China) 931

Volume 20, Number 12, 2011

Erosion Rate of Random Short Carbon Fibre/Phenolic Resin Composites: Modelling and Experimental Approach
Ommati M, Fotovat Ahmadi I, Davachi SM, and Motahari S (Iran) 943

Enhancement of Ink-Receiving Properties of SiO2/PVA Composite Films by Rare Earth Modification of SiO2 Particles
Shao L, Mu C, Huang Y, Ding S, Li X, Bai Y, and Huang Y (P.R. China) 955

Preparation and Rheological Characterization of Phenolic/Glass Prepregs
Shaghaghi S, Beheshty MH, and Rahimi H (Iran) 969

Effects of Non-solvent Additives on PVDF Solution Viscosity and Membrane Performance
Liu M, Xiao CF, and Hu X (P.R. China) 979

Application of Four Ionic Liquids as Plasticizers for PVC Paste Resin
Wang S and Hou L (P.R. China) 989

List of Reviewers (2011) 999

List of Articles (Volume 20, Numbers 1-12, 2011) 1013