

ARTICLES

Preparation and Characterization of Polysilsesquioxane Particles Containing UV-Absorbing Groups Seung Soo Kim, Veronica Kim, and Young Baek Kim*	437
Alginate Hydrogel Embedding Poly(<i>D,L</i> -lactide- <i>co</i> -glycolide) Porous Scaffold Disks for Cartilage Tissue Engineering Sung-Wook Choi, Seung-Kwan Moon, Ji-Yeon Chu, Hye-Won Lee, Tae-Joon Park, and Jung-Hyun Kim*	447
Simultaneous Fabrication of an Alignment Layer and a Wall Structure for a Liquid Crystal Display by Solvent-Assisted Micromolding Jin Ho Yun, Shi-Joon Sung, and Kuk Young Cho*	453
Synthesis and Characterization of Novel Crosslinkable Poly(propylenedioxythiophene) Derivative as a Buffer Layer for Organic Light-Emitting Diode Applications Sung Kwang Ahn, Taewon Ban, Pachagounder Sakthivel, Sung-Ho Jin*, Yeong-Soon Gal, and Jun Hee Lee	459
Electrical, Thermal, and Rheological Properties of Carbon Black and Carbon Nanotube Dual Filler-Incorporated Poly(dimethylsiloxane) Nanocomposites Jinho Hong, Dong Wha Park, and Sang Eun Shim*	465
On the Use of Co(II)alamin as a Spin Trap in Radical Polymerization Yeap-Hung Ng, Fabio di Lena*, and Christina L. L. Chai	473
Ionic Aggregation Characterization of Sulfonated PEEK Ionomers Using by X-Ray and DMA Techniques Ju-Myung Song, Junhwa Shin, Joon-Yong Sohn, and Young Chang Nho*	477
Synthesis of Novel Poly(<i>N,N</i> -diethylacrylamide- <i>co</i> -acrylic acid) (P(DEA- <i>co</i> -AA)) Microgels as Carrier of Horseradish Peroxidase Immo-bilization for Pollution Treatment Yaping Zhang, Tonghuan Liu, Qiang Wang, Jihua Zhao, Jian Fang*, and Weiguo Shen	484
Biosorption Behaviors of Natural Polymer Microfibers Synthesized by Using Cellulase-Based Enzyme Reactions Do-Hoon Kim, Wooram Park, Yong-Jin Kim, Jintae Han, Seong-Geun Oh, and Jin Woong Kim*	490
Nanocomposites of Novolac Type Phenolic Resins and Organoclays: The Effects of the Resin Molecular Weight and the Amine Salt Structure on the Morphology and the Mechanical Properties of the Composites Sang Chul Roh, Hyuk Joong Kwan, and Chang Keun Kim*	496
Preparation and Characterization of Nickel-Coated Carbon Nanofibers Produced from the Electropinning of Polyamideimide Precursor Gun-young Heo, Young-taik Hong, and Soo-jin Park*	503
Synthesis of Star-Shaped Poly(<i>N</i> -isopropylacrylamide) <i>via</i> Atom Transfer Radical Polymerization and Its Photocatalytic Oxidation of Rhodamine B Zhengguo Gao, Jianying Liang, Xiangdong Tao, Yuan Cui, Toshifumi Satoh, Toyoji Kakuchi, and Qian Duan*	508
Synthesis of Poly(<i>D</i> -lactide) with Different Molecular Weight <i>via</i> Melt-Polymerization Purba Purnama, Youngmee Jung, Chae Hwan Hong, Do Suck Han, and Soo Hyun Kim*	515
Biofunctional Nanoparticle Formation and Folate-Targeted Antitumor Effect of Heparin-Retinoic Acid Conjugates In-hyeok Oh, Kwang Jae Cho, Thanh Huyen Tran, Kang Moo Huh*, and Yong-kyu Lee*	520
Arbitrary, Complex Cell Patterning <i>via</i> Inkjet Printing of a Cell Membrane-Anchoring Polymer Hwa In Yoon, Ji Suk Choi, Byung Kook Lee, Je Hoon Oh, and Yong Woo Cho*	528
Hatree Analysis of χ for a Pressure-Responsive Diblock Copolymer: Temperature-Pressure Superposition Junhan Cho*	534

NOTES

Effects of Functional Grafting on Viscoelastic and Toughness Behaviors of Multi-Walled Carbon Nanotubes-Reinforced Polypropylene Nano-Composites Young-Sun Shim, Byung-Gak Min, and Soo-Jin Park*	540
---	-----

COMMUNICATIONS

- Stereocomplex-Nanocomposite Formation of Polylactide/Fluorinated-Clay with Superior Thermal Property Using Supercritical Fluid
Purba Purnama, Soon Ho Lim, Youngmee Jung, and Soo Hyun Kim* 545
- Synthesis of Heterogeneous Shape-Controllable Nano-Hyperbranched Polymer/Pt(0) Catalyst with High Catalytic Activity in Hydrosilylation
Daohong Zhang*, Jing Wang, Xinjian Cheng, Tingcheng Li*, and Aiqing Zhang 549

ARTICLES

- Atom Transfer Radical Polymerization (ATRP) of Methyl Methacrylate Mediated by Iron(II) Chloride in the Presence of Polyethers as Both Solvents and Ligands
Yeap-Hung Ng, Fabio di Lena*, and Christina L. L. Chai 552
- Reactive Extrusion of Polypropylene/Polystyrene Blends with Supercritical Carbon Dioxide
Tae Yong Hwang, Sangmook Lee, Youngjae Yoo, Kwangho Jang, and Jae Wook Lee* 559
- Poly(vinyl alcohol)/Nano-Sized Layered Double Hydroxides Nanocomposite Hydrogels Prepared by Cyclic Freezing and Thawing
Shu Huang, Zhe Yang, Hong Zhu, Lulu Ren, Weng Weei Tjiu, and Tianxi Liu* 568
- Synthesis of Thermoresponsive Hyperbranched Polyamidoamine and the Molecular Weight, pH, and Anion Sensitive Thermoresponsive Properties Thereof
Yi Liu, Xun-Yong Liu, Hua-Ji Liu*, Fa Cheng, and Yu Chen* 578
- Analysis of Residual Monomers in Poly(acrylonitrile-*co*-butadiene-*co*-styrene)
Sung-Seen Choi* and Yun-Ki Kim 585
- Preparation of Superparamagnetic Polystyrene-Based Nanoparticles Functionalized by Acrylic Acid
Lalida Charoenmark, Duangporn Polpanich*, Raweewan Thiramanas, and Pramuan Tangboriboonrat 590
- Synthesis of Star-Shaped PCL-Based Copolymers *via* One-Pot ATRP and Their Self-Assembly Behavior in Aqueous Solution
Xiujuan Huang, Yan Xiao*, and Meidong Lang* 597
- An Effective Method for Manufacturing Hollow Carbon Nanofibers and Microstructural Analysis
Byoung-Sun Lee, Kyu-Min Park, Woong-Ryeol Yu*, and Ji Ho Youk 605
- Synthesis and Characterization of Novel Photoactive, Thermally Stable, and Organosoluble Polymers Based on Carbazole and Imidazole Derivatives in the Main-Chain
Mousa Ghaemy*, Farzaneh Hashemi Nasr, Raouf Alizadeh, and Mehdi Taghavi 614
- Robust Interpenetrating Network Photopolymer Containing Hyper-Branched Photoreactive Nanoparticle for Holographic Data Storage
Yong-Cheol Jeong, Bokyung Jung, and Jung-Ki Park* 623
- Evaluation of GENESIS-BCPTM Scaffold Composed of Hydroxyapatite and β -Tricalcium Phosphate on Bone Formation
Dae Hyeok Yang, Ha Na Park, Min Soo Bae, Jung Bok Lee, Dong Nyoung Heo, Won Jun Lee, Young Min Park, Young Hwan Cho, Duck-Su Kim, and Il Keun Kwon* 627
- Effect of Phosphate-Containing Acrylic Dispersants on Rheological and Dielectric Properties of Carbon Black-Filled Epoxy System
Bui Thanh Son*, Nguyen Ngoc Trung, Eun Sung Lee*, and Jin-Young Bae 634
- The Antihydrolytic Effect and Properties of Crosslinked Polyurethane Containing Natural Dimer Fatty Acids Building Blocks
Xin Liu, Kai Xu*, Huan Liu, Hualun Cai, Zien Fu, Ying Guo, and Mingcai Chen 642
- Influences of Tensile Drawing on Structures, Mechanical, and Electrical Properties of Wet-Spun Multi-Walled Carbon Nanotube Composite Fiber
Min Ho Jee, Jin Uk Choi, Sung Ho Park, Young Gyu Jeong, and Doo Hyun Baik* 650