「Macromolecular Research」목차

정기간행영문지 25권 5호 · 2017년 5월

	CON	ИМ	JNIC	CAT	ION
--	-----	----	------	-----	-----

Thermally Stable Superhydrophobic Polymethylhydrosiloxane Nanohybrids with Liquid Marble-Like Structure

Saravanan Nagappan, Nam-Ju Jo*, Won-Ki Lee, and Chang-Sik Ha* 387

ARTICLES

Effects of Processing Conditions and Crystallization on Dynamic Relaxations in Semicrystalline Poly(vinylidene Fluoride) Films

Pornpen Atorngitjawat* 391

Alkylated Sulfonated Poly(arylene sulfone)s for Proton Exchange Membranes

Won Jun Lee, Sun Hwa Lee, Mustafa K. Bayazit, Sang Ouk Kim, and Yeong Suk Choi* 400

Research of the Synthesis and Film Performance of Silica/Poly(St-BA-MPS) Core-Shell Latexes Obtained by Miniemulsion co-Polymerization

Shixin Song, Hanxiao Lv, Yuanjing Bi, Shulin Sun*, and Huixuan Zhang 408

Flexible Polymer Opal Films Prepared by Slide Coating from Alcoholic Media

Seulgi Kim, Young Gook Koh, Hyunjung Lee, and Wonmok Lee* 415

Biobased Epoxy Blends from Epoxidized Castor Oil: Effect on Mechanical, Thermal, and Morphological Properties

Sudha G. S.*, Hemjyoti Kalita, Smita Mohanty, and Sanjay Kumar Nayak 420

Mussel-Inspired Multifunctional Coating for Enhancing the UV-Resistant Property of Polypropylene Fibers

Zhengyi Liu, Juncheng Hu, Qi Sun, Li Chen, Xia Feng*, and Yiping Zhao* 431

Preparation, Characterization and Properties of Poly(lactic acid)/Poly(1,4-butylene adipate) Blends for Biodegradable Packaging Materials

Zhimeng Liu, Yuan Lei, Zeyu Hu, Weibo Kong, Changlin Zhou*, and Jingxin Lei* 439

SPION Loaded Poly(L-lysine)/Hyaluronic Acid Micelles as MR Contrast Agent and Gene Delivery Vehicle for Cancer Theranostics

Reju George Thomas, Muthunarayanan Muthiah, MyeongJu Moon, In-Kyu Park, and Yong Yeon Jeong* 446

Chemical Modification of Graphene Oxide Through Poly(ethylene oxide)-Conjugations

Abu Bakkar Siddique, Jin Wook An, Hyun Jun Kim, Hyeonjong Park, Geon Chang Lee,
Jae Yeol Lee, Sehoon Kim, Minhoo Byeon, Chong Rae Park, and Jungahn Kim* 452

Selectively Catalytic Hydrogenation of Nitrile-Butadiene Rubber Using Grubbs II Catalyst

Chunjin Ai, Guangbi Gong, Xutao Zhao, and Peng Liu* 461

Synthetic Optimization of Gelatin-Oleic Conjugate and Aqueous-Based Formation of Self-Assembled Nanoparticles without Cross-Linkers

Van Hong Nguyen and Beom-Jin Lee* 466

NOTE

Modulation of Properties of Thermal Silicone Rubbers (TSR) for Central Processing Unit (CPU) by Compositing Octavinyl-Polyhedral Oligomeric Silsesquioxane (POSS) Cubic Microcrystals below the Detection Limit

Yulun Tao, Jiafu Ruan, Jaeyeong Bae, Xinhua Huang, Jinbo Zhu, and Il Kim* 474

「Macromolecular Research」목차

- Special Issue for the 40th Anniversary of the Polymer Society of Korea

정기간행영문지_ 25권 6호·2017년 6월

REVI	EW	S
------	----	---

Chitosan-Based Composite Hydrogels for Biomedical Applications

Tepeng Wu, Yi Li, and Doo Sung Lee* 480

Organic Thin Film Transistor with Conjugated Polymers for Highly Sensitive Gas Sensors

Benjamin Nketia-Yawson and Yong-Young Noh* 489

COMMUNICATIONS

Layer-by-Layer Assembly of Graphene on Polyimide Films via Thermal Imidization and Synchronous Reduction of Graphene Oxide

Yuheng Li, Myeon-Cheon Choi, Keuk-Min Jeong, Jae Hoon Jeong,

Hyeok-Gi Lee, Gue-Hyun Kim*, and Chang-Sik Ha* 496

Cationic Comb-Type Copolymer Promotes DNA Assembly on Gold Nanoparticles While Enhancing Particle Dispersibility

Hiroki Sato, Naohiko Shimada, and Atsushi Maruyama* 500

ARTICLES

Iron and Copper Based Catalysts Containing Anionic Phenolate Ligands for Atom Transfer Radical Polymerization

Chiaki Nishiura, Valerie Williams, and Krzysztof Matyjaszewski* 5

504

513

Stimuli-Responsive Polymers: Fundamental Considerations and Applications

Yongfeng Gao, Menglian Wei, Xue Li, Wenwen Xu, Andrews Ahiabu,

Juliana Perdiz, Zining Liu, and Michael J. Serpe*

Fabrication and Characterization of Aligned Fibrin Nanofiber Hydrogel Loaded with PLGA Microspheres

Shenglian Yao, Yongdong Yang, Xiumei Wang*, and Luning Wang* 528

Effects of Switching Frequency on Polymer Structure and Properties

Yaobin Liu, Biao Zhang, Zhisheng Fu, and Zhiqiang Fan* 534

pH-Induced Reversible Formation of Core-Crosslinked Star Polymers

Min Su Um and Hyung-il Lee* 542

Synthesis and Characterization of Novel Tröger's Base Containing Polymers from Commercial Available Diamines

Synthesis of Polyethylene/Poly(ethylene-co-propylene) In-Reactor Alloys by Periodic Switching Polymerization Process:

Zhixiu Wu and Jianyong Jin* 546

An Ionic Conjugated Polymer from the Catalyst-Free Polymerization of 2-Ethynylpyridine Using 3,4,5-Trimethoxybenzoyl Chloride

Yeong-Soon Gal*, Sung-Ho Jin, Jongwook Park, and Kwon Taek Lim 552

Enhanced Thermal Conductivity of Epoxy/Cu-Plated Carbon Fiber Fabric Composites

Seunggun Yu, Kyusup Park, Jang-Woo Lee, Soon Man Hong, Cheolmin Park*, Tae Hee Han*, and Chong Min Koo* 559

Polymerization and Their Viscous Response Under an Electric Field	
Tae Hong Min and Hyoung Jin Choi*	565
Synthesis of Conjugated Polymer Nanoparticles with Core-Shell Structure for Cell Imaging and Photodynamic Cancer Therapy	
Choongho Kim, Sun-Young Kim, Yong Taik Lim, and Taek Seung Lee*	572
Synthesis and Properties of Polyimines Containing 2,2,4,4-Tetramethyl-1,3-Cyclobutadiimine Moiety	
Yeong-Beom Lee, Woo-Hyung Lee, James J. Worman, Annick Anctil, Brian Landi, and Chulsung Bae*	578
Water Repellency of Large-Scale Imprinting-Assisted Polymer Films	
Harim Choi, Seulyi Lee, Sang Hee Park, Joong Se Ko, and Hoichang Yang*	584
Synthesis, Characterization and Photophysical Behavior of Heteroleptic Ruthenium-Complexed Ladder-Like Structured Polysilsesquioxanes	
Anil Reddy Marri, Kie Yong Cho, Albert S. Lee, Hyun-Ji Kim, Do Xuan Huy, Seung Sang Hwang, and Kyung-Youl Baek*	591
Synthesis and Post-Polymerisation Ligations of PEG-Based Hyperbranched Polymers for RNA Conjugation <i>via</i> Reversible Disulfide Linkage	
Aditya Ardana, Andrew K. Whittaker, and Kristofer J. Thurecht*	599
Self-Assembly Behavior of Inconvertible Star Poly(acrylic acid) Conformers Based on <i>p-tert</i> -Butylthiacalix[4]arene	
Ji-Hye Jung, Inhye Kim, Yeong-Gweon Lim, Eunji Lee, and Hyun-jong Paik st	615
Negligible Effect of Processing Additive in Polymer Bulk Heterojunction Photovoltaic Cells with Unmodified Fullerene	
Kazuya Tada*	624
A Hierarchically Porous Polyimide Composite Prepared by One-Step Condensation Reaction inside a Sponge for Heterogeneous Catalysis	
Jong Gil Kim, Jeongmin Lee, Jieun Lee, Seong In Jo, and Ji Young Chang*	629
CO ₂ -Responsive Bowl-Shaped Polymersomes	
Hailong Che and Jinying Yuan*	635
Enhancement of Self-Healing Property by Introducing Ethylene Glycol Group into Thermally Reversible Diels-Alder Reaction Based Self-Healable Materials	
Ha-Young Lee and Sang-Ho Cha*	640
Cytotoxicity and In vivo Biosafety of the Polylactide Based Bone Composite Materials	
Joon Woo Chon, In Kyu Jang, Jin Woo Bae, Seung Woo Suh, In Kwon Chung, Yoon Ju Song, Jin Hwan Kim, and Dong June Chung*	648
Phase Transition of Block Copolymer/Homopolymer Binary Blends under 2D Confinement	

Youngkeol Kim, Jaewan Mun, Guiduk Yu, and Kookheon Char*

656

Synthesis of Poly(methyl methacrylate)/Graphene Oxide Nanocomposite Particles via Pickering Emulsion