

일반논문

기능화된 탄소나노튜브를 이용한 초고분자량 폴리에틸렌 복합체 필름: 열적·기계적 성질, 모폴로지, 전기적 성질 및 기체 투과도	고정호 · 김정철 · 장진해 [†]	97
탈미네랄화된 골분을 이용한 스폰지의 제조 및 특성 분석	장지옥 · 백미옥 · 김순희 · 최진희 · 양재찬 · 홍현해 · 홍희경 · 이종문 · 민병현 · 강길선 [†]	104
무채혈 혈당 측정시스템의 Patch Sensor-용 수화젤의 합성 및 생체적합성에 관한 연구	권정우 [†] · 김동철 · 윤인준 · 정윤나 · 정지영 · 황인식	111
케라틴이 첨가된 PLGA 필름에서 케라틴 함량별 SC세포의 증식 및 형태유지에 관한 연구	오아영 · 김순희 · 김윤태 · 전나리 · 양재찬 · Sang Jin Lee · James J. Yoo · Mark van Dyke · 신형식 · 이종문 · 강길선 [†]	118
구아노신일인산의 결정화에 대한 수용성 고분자의 영향	이민경 · 최혜민 · 김우식 · 홍종팔 · 이종휘 [†]	124
가교제의 화학 구조에 따른 에틸렌 비닐 아세테이트 공중합체의 가교 특성 고찰	이종록 · 최창석 · 강호종 [†]	131
Norfloxacin이 담지된 Poly(ϵ -caprolactone)/Poly(ethylene glycol) 이중블록공중합체 미셀의 제조	정영일 · 장미경 · 나재운 [†]	137
폴리{1-(콜레스테릴옥시카보닐알카노일옥시)에틸렌}들의 열 및 광학 특성	정승용 · 마영대 [†]	144
레진 기질에 포함된 희석제들이 치과용 복합 재료의 특성 변화에 미치는 영향	유선화 · 김창근 [†]	153
아미드 커플링을 통한 텐드리틱 Polystyrene- <i>block</i> -Linear Poly(<i>t</i> -butyl acrylate) 공중합체의 합성	송 겔 · 조병기 [†]	158
Poly(lactic acid)/Poly(butylene adipate- <i>co</i> -terephthalate)/CMPS 블렌드의 형태학, 열적 및 기계적 특성	강경수 · 김봉식 · 장우열 · 신부영 [†]	164
PEG를 포함한 실리콘 수화젤 렌즈의 제조 및 특성	장하나 · 정연복 · 김승수 [†]	169
폴리카보네이트 성분을 포함하는 수분산 폴리우레탄의 제조와 인공피혁 합침가공에의 응용	이경우 · 고재훈 · 심재윤 · 김영호 [†]	175
실시간 소각 및 광각 X-선 산란을 이용한 일축 변형된 공단량체 함유 폴리에틸렌의 용융 거동	조태연 · 전해진 · 유석근 · 송현훈 [†]	183
고분자과학과 기술 제 20 권 2 호 2009년 4월		205

Communications

- Ion-Conducting Hyperbranched PEG Electrolytes Derived from Poly(glycidol)
Seong-Cheol Kim, Tae Hwan Oh, Dong Wook Kim, Changjin Lee, and Yongku Kang* 141

Articles

- Pd(II) Catalyzed Copolymerization of Styrene and CO in Quaternary Ammonium Ionic Liquids
Jing Tian, Jin-Tang Guo*, Cheng-Cai Zhu, Xin Zhang, and Yong-Shen Xu 144
- Thermal Decomposition Behavior and Durability Evaluation of Thermotropic Liquid Crystalline Polymers
Sang Mi Shin, Seong Hun Kim*, and Jun Kwang Song 149
- Supramolecular Hydrogels Instantaneously Formed by Inclusion Complexation between Amphiphilic Oligomers and α -Cyclodextrins
Sanping Zhao and Jonghwi Lee* 156
- In Situ* Microfluidic Synthesis of Monodisperse PEG Microspheres
Chang-Hyung Choi, Jae-Hoon Jung, Taek-Sung Hwang, and Chang-Soo Lee* 163
- Alginate Nanohydrogels Prepared by Emulsification-Diffusion Method
So Min Lee, Eun Soo Yoo, Han Do Ghim*, and Su Jeong Lee 168
- Specific Binding of Streptavidin onto the Nonbiofouling Titanium/Titanium Oxide Surface through Surface-Initiated, Atom Transfer Radical Polymerization and Bioconjugation of Biotin
Sung Min Kang, Bong Soo Lee, Wan-Joong Kim, Insung S. Choi*, Munjae Kil, Hyuk-jun Jung, and Eugene Oh* 174
- Ordered Micropatterns by Confined Dewetting of an Imprinted Polymer Thin Film and Their Microlens Application
Geuntak Lee, Bokyung Yoon, Himadri Acharya, Cheolmin Park*, and June Huh 181
- Synthesis of Platinum Nanoparticles Using Electrostatic Stabilization and Cluster Duplication of Perfluorinated Ionomer
Pyoung-Chan Lee, Dong Ouk Kim, Tai-Hoon Han, Soo-Jung Kang, Lyong Sun Pu, Jae-Do Nam*, Byung Woo Kim, and Jun-Ho Lee 187
- Fabrication of Multicomponent Protein Microarrays with Microfluidic Devices of Poly(dimethylsiloxane)
Schoon Jeon, Ui Seong Kim, Wonjin Jeon, Chee Burm Shin*, Surin Hong, Inhee Choi, Suseung Lee, and Jongheop Yi 192
- Polymer Inkjet Printing: Construction of Three-Dimensional Structures at Micro-Scale by Repeated Lamination
Yeon Hee Yun, Jae Dong Kim, Byung Kook Lee, Yong Woo Cho*, and Hee Young Lee 197

Notes

- Conjugated Dendrimers with Electrical Bistability for Organic Memory Application
Chae Kyu Kim, Hyung Joo Kim, Eun Seok Song, Chiyoung Park, Kwang Hyun Kim, Chulhee Kim*, and Won-Jae Joo 203

Review

Preparation, Properties and Application of Polyamide/Carbon Nanotube Nanocomposites

Peng Chen, Hun-Sik Kim, and Hyoung-Joon Jin*

207

Communications

Alkoxy Bipyridine Ligands for ATRP of Styrene and Methyl Methacrylate

Young-Je Kwark

218

Articles

Thermally Induced Cationic Polymerization of Glycidyl Phenyl Ether Using Novel Xanthenyl Phosphonium Salts

Mukesh Kumar Gupta and Raj Pal Singh*

221

Polymeric Humidity Sensor Using Polyelectrolyte Derived from Poly (amide-sulfone)s

Young-Min Jeon and Myoung-Seon Gong*

227

Nanopatterning of Proteins Using Composite Nanomold and Self-Assembled Polyelectrolyte Multilayers

Sung-Kyu Kim, Byung-Gee Kim, Ji-Hye Lee, and Chang-Soo Lee*

232

Synthesis of High Molecular Weight 3-Arm Star PMMA by ARGET ATRP

Hyun Jeong Jeon, Ji Ho Youk*, Sung Hee Ahn, Jin Hwan Choi, and Kwang Soo Cho

240

Highly Fluorescing Solid DNA-Cationic Polyelectrolyte Complexes Prepared from a Natural DNA and a Poly (fluorenevinylene-alt-phenylene) Bearing Quaternary Ammonium Pendants

Young-Jun Yu, Young-Wan Kwon, Kyu-Nam Kim, Eui-Doo Do, Dong-Hoon Choi, Jung-Il Jin*, Hee-Won Shin, Yong-Rok Kim, Ik Joong Kang, and John A. Mikroyannidis

245

Effect of Crosslinking Agents on the Morphology of Polymer Particles Produced by One-Step Seeded Polymerization

Donghee Kim, Do Yang Lee, Kangseok Lee, and Soonja Choe*

250

Bioconjugation of Poly (poly (ethylene glycol) methacrylate) -Coated Iron Oxide Magnetic Nanoparticles for Magnetic Capture of Target Proteins

Sung Min Kang, Insung S. Choi*, Kyung-Bok Lee, and Yongseong Kim*

259

Synthesis and Characterization of Thermosensitive Nanoparticles Based on PNIPAAm Core and Chitosan Shell Structure

Hyun Jung, Mi-Kyeong Jang, Jae-woon Nah*, and Yang-Bae Kim

265

High Out-of-Plane Alignment of Liquid Crystalline Methacrylate Copolymer Bearing Photoreactive 4-Styrylpyridine Moiety

Giseop Kwak, Jong-Yun Kong, Min-Woo Kim, Seok-Hee Hyun, and Woo-Sik Kim*

271

Notes

Methylaluminum Dichloride as a Cocatalyst for Ni(II) α -Diimine Complexes Catalyzed Ethylene Polymerization

Bijal Kottukkal Bahuleyan, Gi Wan Son, Yun Hwan Park, In Yong Ahn, Chang-Sik Ha, and Il Kim*

276

An Ordered Network Polymer of Bicontinuous Cubic Structure Resulting from Photo-Polymerization of a Coil-Rod-Coil Molecule Self-Assembly

Keli Zhong, Tie Chen, Bingzhu Yin, and Long Yi Jin*

280