「폴리머」 목차

정기간행국문지_ 37권 6호 · 2013년 11월

일반논문

*In vivo*상에서 탈미네랄화된 골분이 함유된 PLGA 지지체를 이용한 추간판 디스크 재생
장지은 · 김혜윤 · 송정은 · 이동원 · 권순용 · 정진화† · 강길선† 669

용액 농도에 따른 항균성 알긴산 아연 필름의 제조 및 그 특성
이주현 · 서혜진 · 손태원 · 임학상† 677

초임계 이산화탄소를 이용하여 제조한 Poly(lactic acid) 발포체의 특성 분석
신지희 · 이현규 · 송권빈 · 이광희† 685

프탈이미드 유도체를 기본으로 하는 공액고분자의 합성과 특성, 그리고 태양전지의 적용
Thu Trang Do · 하예은 · 김주현† 694

방출제어를 위한 잘토프로펜이 함유된 폴리옥살레이트 미립구의 제조와 특성
김경희 · 이천중 · 조선아 · 이정환 · 장지은 · 이동원 · 권순용 · 정진화† · 강길선† 702

사슬 배향이 폴리(에틸렌 나프탈레이트) 유연기판 특성에 미치는 영향
김종화 · 강호종† 711

초음파와 동결/융해에 의한 실크/PVA 하이드로젤의 제조 및 특성 평가
이옥주 · 김정호 · 주형우 · 문보미 · 박현정 · Faheem A. Sheikh · 박찬흠† 717

보론 나이트라이드와 탄소나노튜브로 충전된 실리콘 고무의 열전도도 향상
하진욱 · 홍진호 · 김민재 · 최진규 · 박동화 · 심상은† 722

Polyamide-epichlorohydrin 지력 증강제 함유 폴리비닐알코올의 물성 연구
장윤재 · 이활종 · 강호종† 730

디페닐렌비닐렌 치환기를 가진 카바졸계 청색발광 공중합체 합성
김우연 · 윤근병† 736

광학 필름 적용을 위한 용융혼합된 PLLA/PMMA 블렌드의 상용성 연구
박은주 · 김인석 · 박상석 · 이호상 · 이무성† 744

폴리카보네이트와의 레이저 투과 용접성 개선을 위한 폴리프로필렌 개질
김대진 · 전일련 · 박해윤 · 서관호† 753

PMMA 그래프트 전분/카본블랙/NBR 복합체의 제조와 물성
김민수 · 조을룡† 764

무수 말레인산으로 그래프트된 ENR 50에 Nylon 6를 혼합한 기체 고차단성 고무 배합물
임종혁 · 조을룡† 770

실리카 나노입자 표면에 결합된 아미노기와 Glycidyl Methacrylate의 반응에 관한 분광학적 연구
이상미 · 하기룡† 777

폴리아크릴로니트릴의 가수분해와 아미드화에 의한 열감응성 폴리(*N*-이소프로필아크릴아미드)의 합성과 특성분석
이희동 · 김영호† 784

pH 감응성 NIPAM-*co*-MAA 고분자 마이크로젤의 제조 및 분석과 염 종류에 따른 부피상 변화
Mohammad Saleem Khan, Gul Tiaz Khan†, Abbas Khan, and Sabiha Sultana 794

알로인이 함유된 창상치료제용 PVA/CMC 하이드로젤의 개발
김 진 · 이창문 · 김동운 · 이기영† 802

「Macromolecular Research」 목차

정기간행영문지_ 21권 11호 · 2013년 11월

COMMUNICATIONS

Polypeptide Microgel Capsules as Drug Carriers
Jie Cheng, Minsung Park, Dong Woo Lim, and Jinho Hyun* 1163

Optical Trapping Forces Depending on Size of Dielectric Polystyrene Microspheres
Bum Jun Park* and Eric M. Furst 1167

ARTICLES

Three Dimensional Simulation Dynamics for the Dilute Colloidal Suspensions of Rod-Like Polymer Particles Flowing in the Bulk and Near Solid Boundaries
Ali Atwi*, Antoine Khater, and Abbas Hijazi 1171

Effects of Compatibilizers on the Mechanical, Morphological, and Thermal Properties of Poly(propylene carbonate)/Poly(methyl methacrylate) Blends
Seok Jae Yoo, Seung Hwan Lee, Minho Jeon, Heon Sang Lee, and Woo Nyon Kim* 1182

Effect of Association on Rheological Behaviors in the Non-Aqueous Solutions of Semi-Flexible Cellulose Derivatives
Hu Zhou, Ilho Maeng, Yong Hwan Koo, Hye Won Kim, Ji Hyun Park, Hyun Suk Kang, Byung Cheol Lee*, Longhai Piao*, and Sang-Ho Kim* 1188

Characterization of Sulfonated Poly(arylene ether sulfone) (SPAES)/Silica-Phosphate Sol-Gel Composite Membrane: Effects of the Sol-Gel Composition
Deuk Ju Kim, Hae Young Hwang, and Sang Yong Nam* 1194

Targeted Delivery of MicroRNA-145 to Metastatic Breast Cancer by Peptide Conjugated Branched PEI Gene Carrier
Hwa Jeong Lee, Ran Namgung, Won Jong Kim, Jae Il Kim, and In-Kyu Park* 1201

Effects of Maleic Anhydride Grafted Ethylene/Vinyl Acetate Copolymer (EVA) on the Properties of EVA/Silica Nanocomposites
Thai Hoang*, Nguyen Thuy Chinh, Nguyen Thi Thu Trang, To Thi Xuan Hang, Dinh Thi Mai Thanh, Dang Viet Hung, Chang-Sik Ha*, and Maëlenn Aufray 1210

Preparation of Cellulose Nanowhiskers and Their Reinforcing Effect in Polylactide
Joo Hyung Lee, Sang Ho Park, and Seong Hun Kim* 1218

A Study on the Physicochemical Properties of a Graphite/Polybenzoxazine Composite for Bipolar Plate of Polymer Electrolyte Membrane Fuel Cells
Seon Gi Kim, Jeong-Heon Kim, and Jin-Heong Yim* 1226

Fabrication of Poly(vinyl acetate)/Polysaccharide Biocomposite Nanofibrous Membranes for Tissue Engineering
Hyo-Geun Jeong, Young-Eun Kim, and Young-Jin Kim* 1233

Preparation and Characterization of Chlorinated Cross-Linked Chitosan/Cotton Knit for Biomedical Applications
Hye Kyoung Shin, Mira Park, Yong Sik Chung, Hak-Yong Kim*, Fan-Long Jin, Heung-Soap Choi, and Soo-Jin Park* 1241

Synthesis and Characterization of Sulfonated Polyol-Based Waterborne Polyurethane-Polyacrylate Hybrid Emulsions
Dong Hyup Park, Je Kon Oh, Sang Bum Kim, and Woo Nyon Kim* 1247

Effect of Hydroiodic Acid-Reduction of Graphene Oxide on Electrical Properties of Polybenzimidazobenzophenanthroline/Graphene Oxide Nanocomposites
Arup Choudhury, Jeong-Hyun Park, and Soo-Young Park* 1254

Sprayable Powder of Hyaluronate Embedded in Mildly Cross-Linked Alginate as a Post-Surgical Tissue Adhesion Barrier
Se Heang Oh, Seung Yeon Na, Kyu Sang Song, and Jin Ho Lee* 1263

Layered Nanofiller-Reinforced Polyketone Composites
Juchul Lee, Kwang Hoon Lee, Daehum Kim, Soonho Lim, and Sang-Soo Lee* 1270

Preparation of Microporous Polymers Consisting of Tetraphenylethene and Alkyne Units
Hyunpyo Lee, Hyun Woo Park, and Ji Young Chang* 1274

Fabrication of Superabsorbent Ultrathin Nanofibers Using Mesoporous Materials for Antimicrobial Drug-Delivery Applications
Sung Yeon Hwang, Won Jae Yoon, Sung Hoon Yun, Eui Sang Yoo, Tai Hee Kim, and Seung Soon Im* 1281

NOTES

High Gas Barrier Properties of Poly(vinyl alcohol) Nanocomposite Films with Various Equibiaxial Stretching Ratios
Miran Ham, Jeong-Cheol Kim, and Jin-Hae Chang* 1289

「Macromolecular Research」 목차

정기간행영문지_ 21권 12호 · 2013년 12월

COMMUNICATIONS

Sequential Transformation of the Crystalline Rod Domain from a Flat Ribbon to Segmented Columnar to Micellar Structure

Jeong-Kyu Lee, Seung-Hyun Kim, Sujin Choi, Jung-Guk Ha, Byoung-Ki Cho*, and Wang-Cheol Zin* 1293

ARTICLES

Photocure Kinetics and Control of LC Microdroplets for Acrylate-Based Polymer Dispersed Liquid Crystal with Different Methacrylate Contents

Jung-Dae Cho, Sang-Sub Lee, Yang-Bae Kim, and Jin-Who Hong* 1297

Cell Adhesion and Surface Chemistry of Biodegradable Aliphatic Polyesters: Discovery of Particularly Low Cell Adhesion Behavior on Poly(3-[RS]-hydroxybutyrate)

Chan Woo Lee*, Bong Keun Song, Jonggeon Jegal, and Yoshiharu Kimura 1305

Preparation of Nafion/Poly(ether(amino sulfone)) Acid-Base Blend Polymer Electrolyte Membranes and Their Application to DMFC

Seung-Eun Nam, Sunmi Park, Won Choon Choi, Jae Wook Lee, and Yongku Kang* 1314

Comparison of the Effectiveness of Polyethylenimine, Polyamidoamine and Chitosan in Transferring Plasmid Encoding Interleukin-12 Gene into Hepatocytes

Ali Dehshahri*, Samira Hossaini Alhashemi, Akram Jamshidzadeh, Zahra Sabahi, Soliman Mohammadi Samani, Hossein Sadeghpour, Erfaneh Mohazabieh, and Mahin Fadaei 1322

Tumor Targeting and pH-Responsive Polyelectrolyte Complex Nanoparticles Based on Hyaluronic Acid-Paclitaxel Conjugates and Chitosan for Oral Delivery of Paclitaxel

Jiao Li, Pingsheng Huang, Longlong Chang, Xingwen Long, Anjie Dong, Jinjian Liu, Liping Chu, Fuqiang Hu, Jianfeng Liu*, and iandong Deng* 1331

A Novel Hybrid Random Copolymer Poly(MAPOSS-*co*-NIPAM-*co*-OEGMA-*co*-2VP): Synthesis, Characterization, Self-Assembly Behaviors and Multiple Responsive Properties

Yiting Xu*, Jianjie Xie, Lingnan Chen, Conghui Yuan, Yinyin Pan, Ling Cheng, Weiang Luo, Birong Zeng, and Lizong Dai* 1338

Flexible Clay Hybrid Films with Various Poly(vinyl alcohol) Contents: Thermal Properties, Morphology, Optical Transparency, and Gas Permeability

Jieun Shin, Jeong-Cheol Kim, and Jin-Hae Chang* 1349

Pluronic Nanoparticles do not Modulate Immune Responses Mounted by Macrophages

Hyun Gyung Kim, Sang-Hyun Jo, Seung-min Yeon, Kyong Hoon Kim, Jin Woong Chung, Tae Won Park, Youngjoo Byun, Eun Hee Lee, Young In Park, and Yong Woo Jung* 1355

Pressure Coefficient of Interfacial Tension for Polymer Blends

Junhan Cho* 1360

Deformation Behavior of Polymeric Colloidal Photonic Crystals Induced by UV Irradiation

Mun Ho Kim*, Doo-Jin Byun, Si-Yong Song, Sei-Moon Shin, Su Kyoung Kwak, and Kil-Yeong Choi* 1366

NOTES

Composition-Dependent Thermochromatic Reversibility of Polymerized Diacetylene-Xylenediamine Complex Films

Chunzhi Cui, Gil Sun Lee, and Dong June Ahn* 1372