

일반논문

- 조직공학적인 연골재생을 위한 *In Vitro* 환경에서의 탈미네랄화 골분용액을 함유한 PLGA 지지체의 효과
인우영 · 김혜린 · 송정은 · 이동원[†] · 강길선[†] 499
- 이핵 CGC의 구조적인 특성과 에틸렌/1-헥센의 공중합 거동과의 관계
까오환투이미 · 웅티레닝 · 웅티레탄 · 노석균[†] 505
- 침투성 구형 모델에 관한 분자 전산 연구: II. 충돌 특성
김춘호 · 서승혁[†] 513
- Eudragit으로 코팅된 초다공성 하이드로젤의 제조 및 pH 의존형 팽윤거동
김보아 · 백은정 · 허강무[†] 520
- Biomass 유래 푸란계 단량체를 이용한 폴리에스터의 중합 및 특성 연구
서강진 · 김명준 · 정지혜 · 이영철[†] · 노시태 · 정용석 526
- 폴리스티렌-폴리(메틸 메타크릴레이트) 이중 블록 공중합체 내의 단일중합체 분포
홍성호 · 이은지 · 송권빈 · 이광희[†] 531
- 폴리카보네이트/폴리에스터카보네이트 블렌드의 파괴 거동
이용범 · 이춘수 · 김대식 · 김중현 · 조재영 · 이상수[†] 537
- 용액 캐스팅으로 제조한 PANI-DBSA/HIPS 블렌드에서 분산성 및 모폴로지가 기계적 특성과 전기전도도에 미치는 영향
이종혁 · 최선웅 · 김은욱[†] 543
- 알킬화가 다중벽탄소나노튜브로 강인화된 에폭시수지의 계면 및 열전도도에 미치는 영향
허건영 · 이경엽 · 박수진[†] 548
- 전기방사법을 이용한 폴리(비닐 알코올)/수분산 폴리우레탄/몬모릴로나이트 나노복합섬유의 제조 및 특성분석
김인교 · 염정현[†] 553
- 아미노산 겔사를 치환 폴리아스팔트산계 생분해성 고흡수성 젤의 제조와 물성
손창모 · 전영실 · 김지흥[†] 558
- 산소 플라즈마 처리된 그래핀 산화물이 PMMA/수산화알루미늄 컴포지트의 기계적 물성에 미치는 영향
김효철 · 전소녀 · 김형일[†] · 최호석 · 홍민혁 · 최기섭 565
- 자동차 선도장을 위한 몰코팅 공정에서 고분자 도료의 동적 거동 및 불안정성
김진호 · 이인준 · 노승만 · 강충열 · 남준현 · 정현욱[†] · 박종명 574
- 생분해성 PBAST와 변형 열가소성 전분 블렌드의 특성
신부영[†] 580
- 전바나듐계 레독스-흐름 전지용 Vinylbenzyl Chloride-*co*-Styrene-*co*-Hydroxyethyl Acrylate (VBC-*co*-St-*co*-HEA) 음이온교환막의 합성 및 특성
백영민 · 광노석 · 황택성[†] 586
- 전바나듐계 레독스-흐름 전지용 IPA-*co*-HDO-*co*- (TPA/MA) 음이온교환막의 합성 및 특성
정재철 · 광노석 · 황택성[†] 593
- 폴리(에틸렌 테레프탈레이트)/폴리(에틸렌 나프탈레이트) 공중합체의 유연기관 특성
염주선 · 김재현 · 강호중[†] 599
- 열처리 온도에 따른 PVDF-SiO₂ 복합나노섬유의 특성 변화
김영진[†] 605
- 전조사법에 의한 PVBC-*g*-ETFE 필름 제조 시 용매의 영향 평가
이선영 · 송주명 · 손준용 · 노영창 · 신준희[†] 610

단신

- 양친성 그래프트 공중합체의 탄소나노튜브 분산제로의 이용
전하림 · 안성훈 · 지원석 · 김중혁[†] 615

Articles

- Preparation of a Porous Scaffold Based on Polypropylene Grafted with Monomethylitaconate as Potential Bone Graft
A. Neira-Carrillo*, M. S. Fernández, J. L. Arias, S. Navarrete G, M. Paz Díaz, and M. Yazdani-Pedram 1105
- One-Step Synthesis of Photoluminescent Core/Shell Polystyrene/Polythiophene Particles
Yeon Jae Jung, Seung Mo Lee, Subramani Sankaraiah, In Woo Cheong, Sung Wook Choi*, and Jung Hyun Kim* 1114
- Influence of Glyceryl Palmitostearate on Release Behaviors of Hydroxypropyl Cellulose Microcapsules Containing Indomethacin by W/O Emulsion
Ki-Seok Kim and Soo-Jin Park* 1121
- Hyperbranched Electroactive Azo Polyamide Based on Oligoaniline: Synthesis, Characterization, and Dielectric Properties
Xiaoteng Jia, Danming Chao, Libing He, Hongtao Liu, Tian Zheng, Chengcheng Zhang, and Ce Wang* 1127
- Nitrogen Grafting onto Polycaprolactone by a Simple Surface Modification with Atmospheric Pressure Glow Discharge (Ar-APGD) and Promoted Neonatal Human Fibroblast Growth
Inho Han, Byeong-Ju Kwon, Barbora Vagaska, Bong-Jin Kim, Jae Kyeong Kang, Mi Hee Lee, Hak Hee Kim, Jong-Chul Park*, Kang-Kyun Wang, Yong-Rok Kim, Jun-Sung An, Ji-Min Lee, Chae-Young Hyun, Jae-Hwan Jeong, and Soo-Jin Lim 1134
- Synthesis and Characterization of Well Defined Polysulfone-*g*-Poly(styrenesulfonic acid) Graft Copolymers for Proton Exchange Membrane
Sang Hun Kim and Chang Gi Cho* 1142
- The Effect of Electron Beam Irradiation on the Dispersion and Properties of Poly(ethylene-co-vinyl acetate)/Clay Nanocomposites
Tae Yong Hwang, Sangmook Lee, Phil-Hyun Kang, Ki Hyun Park, Youngjoon Ahn, and Jae Wook Lee* 1151
- Hydrogels as Template Nanoreactors for Silver Nanoparticles Formation and Their Antimicrobial Activities
Hazem El-Sherif*, Mansour El-Masry, and Amany Kansoh 1157
- Thermo-Mechanical/Thermal Properties of Photo-Cationic Polymerized Cyclo-Aliphatic Epoxy Hybrid Materials
Seung Cheol Yang, Jung Ho Jin, Seung-Yeon Kwak, and Byeong-Soo Bae* 1166
- Structural Characterization of a Polysaccharide Isolated from Lady Godiva Pumpkins (*Cucurbita pepo lady godiva*)
Yi Song, Juan Li, Xiaosong Hu, Yuanying Ni, and Quanhong Li* 1172
- Enhancing the Formation of the New Trigonal Polymorph in Isotactic Propene-1-Pentene Copolymers: Determination of the X-ray Crystallinity
Ernesto Pérez*, María L. Cerrada, Rosario Benavente, and José M. Gómez-Elvira 1179
- New Technique for the Synthesis of Polyphosphoesters
Smaranda Iliescu, Ecaterina Avram, Aurelia Visa, Nicoleta Plesu, Adriana Popa, and Gheorghe Ilia* 1186
- Molecular Dynamics Study of the Role of Friction on the Thermal Rupture of Linear Alternate Copolymers
Kiwoong Kim, Abhijit Ghosh, Kwang Soon Lee, and Won Bo Lee* 1192
- Nanocomposite Membranes Consisting of Poly(vinyl chloride) Graft Copolymer and Surface-Modified Silica Nanoparticles
Sung Hoon Ahn, Jung Tae Park, Jong Hak Kim*, Youngdeok Ko, and Seong Uk Hong* 1195
- Core/Shell Molecular Imprinting Microparticles Prepared Using RAFT Technology for Degradation of Paraoxon
Yong Guo, Ying Yang, Lei Zhang, and Tian Ying Guo* 1202
- Polymeric Nanofiber Coated Esophageal Stent for Sustained Delivery of an Anticancer Drug
Chun Gwon Park, Myung Hun Kim, Min Park, Ji Eun Lee, Seung Ho Lee, Jung-Hwan Park, Kyung-Hwan Yoon, and Young Bin Choy* 1210

Communications

- Preparation of High-Refractive-Index Trimethoxybenzene Novolac-Titania Hybrid
Young Chul An and Gen-ichi Konishi* 1217
- Peculiar Spherulitic Morphologies and Melting Behavior of Block Copolymer Containing Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and Poly(ϵ -caprolactone) Units
Qingsheng Liu, Tien-Wei Shyr*, Chia-Hsin Tung, Meifang Zhu*, and Bingyao Deng 1220
- Low Molecular Weight Protamine/Insulin Formulation with Potential to Attenuate Protamine-Masqueraded Insulin Allergy
Huining He, Allan E. David, Jian Zhang, Yoon Shin Park, Jianxin Wang, Yongzhuo Huang, Jingkang Wang, and Victor C. Yang* 1224

Articles

- Synthesis and Characterization of Biocidal Poly(oxyethylene)s Having *N*-Halamine Side Groups
Kwonyong Choi, Moon-Ja Nam, Jee Yeon Kim, Jeyong Yoon, and Jong-Chan Lee* 1227
- Synthesis, Phase Behavior, and Simulated *In vitro* Degradation of Novel HTPB-*b*-PEG Polyurethane Copolymers
Yan-Ling Luo*, Yan Miao, and Feng Xu* 1233
- Reduced Inflammatory Responses to Poly(lactic-co-glycolic acid) by the Incorporation of Hydroxybenzyl Alcohol Releasing Polyoxalate
Sujin Kim, Yujung Lee, Hyunjin Park, Donghyun Hong, Gilson Khang, and Dongwon Lee* 1242
- Morphological Property and *In vitro* Enzymatic Degradation of Modified Chitosan as a Scaffold
In-Ho Bae, Won Gu Jang, Hyun-Pil Lim, Sang-Won Park, Kwang-Min Lee, Yeong-Joon Park, In-Kyu Park, Myung Ho Jeong, and Jeong-Tae Koh* 1250
- Amphiphilic Gradient Copolymer of [Poly(ethylene glycol) methyl ether] Methacrylate and Styrene *via* Atom Transfer Radical Polymerization
Bong-Soo Kim, Hyo-Kyoung Lee, Somi Jeong, Jang-Oo Lee, and Hyun-jong Paik* 1257
- Mechanical Characterization of Polysaccharide/Polyaminoacid Hydrogels as Potential Scaffolds for Tissue Regeneration
Pietro Matricardi, Giovanna Pitarresi*, Fabio Salvatore Palumbo, Chiara Di Meo, Antonella Albanese, Tommasina Coviello, Claudia Cencetti, Calogero Fiorica, and Gaetano Giammona 1264
- Nanoporous Thin Films of Fully Alicyclic Polyimides
Hwan-Chul Yu, S. Vijay Kumar, Young-Kyu Song, Jiyoung Choi, Kazuaki Kudo, Joong-Gon Kim, Se-Young Oh, and Chan-Moon Chung* 1272
- Synthesis and Characterization of Branched Bisphenol-A Polycarbonates Functionalized with Siloxane
Md. Monirul Islam, Dong-Wan Seo, Ho-Hyoun Jang, Young-Don Lim, Kyung Moo Shin, and Whan-Gi Kim* 1278
- Synthesis and Micellization of Thermosensitive PNIPAAm-*b*-PLA Amphiphilic Block Copolymers Based on a Bifunctional Initiator
Feng Xu*, Ting-Ting Yan, and Yan-Ling Luo* 1287
- Macromolecular Prodrugs of Aspirin with HPMC: A Nano Particulate Drug Design, Characterization, and Pharmacokinetic Studies
Muhammad Ajaz Hussain*, Khawar Abbas, Muhammad Sher, Muhammad Nawaz Tahir, Wolfgang Tremel, Mohammad Saeed Iqbal, Muhammad Amin, and Munair Badshah 1296
- Induction and Biological Evaluations of Self Cross-Linking Chondroitin Sulfate-Poly(ethylene oxide) Hydrogel
Seongyeon Jo, Sumi Kim, Yunjae Hwang, and Insup Noh* 1303
- Electrospun Poly(*L*-lactide) Membranes Containing a Single Drug or Multiple Drug System for Antimicrobial Wound Dressings
Antoniya Toncheva, Dilyana Paneva, Nevena Manolova, and Iliya Rashkov* 1310
- Functional Clustering of Pancreatic Islet Cells Using Concave Microwell Array
Jin Wook Hwang, Bo Ram Lee, Min Jin Jung, Hae Song Jung, Yong Hwa Hwang, Min Jun Kim, Sang Hoon Lee*, and Dong Yun Lee* 1320