

REVIWS

Hollow fiber membrane contactor based carbon dioxide absorption – stripping: a review

I. M. R. Fattah · Zainab A. Farhan · Karolos J. Kontoleon · Ehsan kianfar* · Salema K. Hadrawi 299

Multifunctional hydrogel delivery system for disease therapy

Weihong Mao · Qing Ji · Ping Chen · Zhengzou Fang* · Xinyuan Li* 327

Research progress of triazine flame retardants

Jingsong Wang · Shouwu Yu* · Shujuan Xiao* 339

COMMUNICATION

FeCl₂-doped activated carbon surfaces in hexavalent uranium solution

Joon Hyuk Lee* · Ju Hui Kang · Woo Seok Cho · Sang Sun Choi 359

ARTICLES

Synergy of propylene-based copolymer in high-melt-strength polypropylene for extrusion foaming process

Yun Zhang* · Dayong Tian · Lijun Wang 365

Predictive modeling as a tool to assess polymer-polymer and polymer-drug interactions for tissue engineering applications

Lakshmi Yaneesha Sujeeun · Nowsheen Goonoo · Kaylina Marie Moutou · Shakuntala Baichoo · Archana Bhaw-Luximon* 379

Development and characterization of *Morinda tinctoria* incorporated electrospun PHBV fiber mat for wound healing application

Joshua Sharon Nissi · Srinivasakumar Vyaishnavi · Ragu Sivarajanee · Muthu Parkkavi Sekar · Dhakshinamoorthy Sundaramurthi · Vellingiri Vadivel* 393

Cosmetic delivery system for mulberry root extract emulsions

Sung-Won Kim · Hyang Mi Lee · Taekyung Yu* · Bum Jun Park* · Suk Ho Bhang* 407

REVIIEWS

Poly(2-oxazoline)s: synthesis and biomedical applications

Liuxin Yang · Faming Wang · Pengfei Ren · Tianzhu Zhang* · Qianli Zhang 413

Bioadhesives based on multifunctional biopolymers for biomedical applications

Seoyoon Yu · Chaenyung Cha* 427

ARTICLES

Isothermal crystallization of poly[3-hydroxybutyrate-*co*-4-hydroxybutyrate] mixtures

Tao Zhang · Yunjae Jang · Minho Jung · Eunhye Lee · Ho-Jong Kang* 443

Oligoetherols and polyurethane foams based on cyclotriphosphazene of reduced flammability

Jacek Lubczak* · Renata Lubczak 455

Bromelain-loaded polyvinyl alcohol-activated charcoal-based film for wound dressing applications

Yugesh Ramdhun · Monalisha Mohanta · Thirugnanam Arunachalam* · Ritvesh Gupta · Devendra Verma 469

BDT-based donor polymer for organic solar cells to achieve high efficiency over 15% for ternary organic solar cells

Jeonghyeon Kim · Jeonghyeon Park · Donghyun Song · Jesung Jee · Thavamani Gokulnath · Seung Choul Han · Sung-Ho Jin* · Jae Wook Lee* 489

Highly stretchable and conductive hybrid gel polymer electrolytes enabled by a dual cross-linking approach

Seon Min Park · U Hyeok Choi* 499

Poly(vinyl chloride) and poly(ethylene glycol) binary blend films: a study of thermal and shape memory properties

Mustafa Ersin Pekdemir* · Mediha Kök · Aybolek Cherkezova 511

REVIEW

Biomedical applications of silica-based aerogels: a comprehensive review

Fatemeh Soghra Jahed · Samin Hamidi* · Monireh Zamani-Kalajahi* · Mohammadreza Siasi-Shabdad 519

ARTICLES

Vibrational, dielectric and ion transport properties study of CMC-EDTA-PEG-based biopolymer electrolyte membranes

Pravin Kumar Ray · Devesh Chandra Bharati · J. P. Singh · A. L. Saroj* 539

Effects of addition of styrene-co-methacrylate ionomers neutralized with various monovalent cations on asphaltene dispersion in heavy oil

Ki Cheol Song · Sang-Hui Park · Joon-Seop Kim* · Young-Wun Kim 557

Effect of chemical structural properties of chitooligosaccharides on the immune activity of macrophages

Dae Young Jeong · Eung Take Lee · Jisun Lee · Dae Cheol Shin · Yong Hyun Lee · Jae Kweon Park* 569

Synthesis and characterization of aromatic poly(phosphonate)s, poly(thiophosphonate)s, and poly(selenophosphonate)s for high refractive index

Deok Ryu · Miyeon Lee · Honglae Sohn* · Nam-Ho You* 583

Synthesis and anti-fouling properties of zwitterionic poly(L-glutamic acid)

Sviatoslav Hladíš * · Jana Dvořáková · Vladimír Proks 593

Polythiourethane composite film with high transparency, high refractive index and low dispersion containing ZnS nanoparticle via thiol-ene click chemistry

Jianbo Gu · Xiang Wang* · Chengze Xu · Xiangyang Feng · Siyuan Zhang 603

Correlation between solvent composition and materials properties of organohydrogels prepared by solvent displacement

Woohyeon Shin · Kyeongwoon Chung* 615

Fast-response thermo-sensitive actuator based on asymmetric structured PNIPAM hydrogel with inorganic particles embedding

Zhuanzhuan Fan · Weizhong Xu · Ruofei Wang · Huaping Wu · Aiping Liu* 625