

REVIEW

Structural evolution of anodized TiO₂ nanotubes and their solar energy applications

Heesu Kim · Jeongin Lim · Young Un Jeon · Minji Park · Yuhyeon Yang · Seulki Song* 607

ARTICLES

Mechanical properties of melt-fabricated, drawn films of A-B-A triblock copolymers of poly(L-lactide) (A) and two types of polyethers (B)

Kazunari Masutani* · Yasunori Yoshioka · Yoshiharu Kimura · Chan Woo Lee* 631

High-stability flexible body motion monitoring sensor based on waterborne polyurethane-coated conductive warp-knitted fabric

Xinyan Yue · Xiaohu Wang · Xiao Han* · Jianhan Hong 641

Modification of rice hull powder by in situ generation of silver nanoparticles for antibacterial composite filler applications

A. Ganesh Babu · S. S. Saravanakumar · B. Balavairavan · P. Senthamaikannan* 653

Comparison of mechanical and tribological properties of glass-fiber-reinforced polyketone and polyketone/polyamide 6 blend composites

Irem Nehir Uysal · Mehmet Atilla Tasdelen* 663

Preparation and characterization of a chitosan/TiO₂ nanocomposite hydrogel intended for the photocatalytic degradation of pollutants

Hafida Sehil* · Mohamed Badaoui · Abdelkader Chougui · Larbi Bouhadjar · Wissame Aoun · Lamia Belkhier 673

Bilayered porous composite scaffolds for enhanced treatment of bone cancer through chemo-photothermal combination therapy

Jae Woo Kim · Jung Hun Kwon · Ki Hong Kim · Young-Jin Kim* 685

Preparation of hydrogel using catechin-grafted chitosan and carboxymethyl cellulose

Sachiko Nitta* · Sakura Taniguchi · Hiroyuki Iwamoto* 703

A multi-dimensional culture system model for hippocampal NSCs on PLLA microwell pattern

Donghuo Zhong* · Wenxu Wang · Sizhe Tang · Tao Ling · Shikai Qi · Xingnuan Li · Zhongping Wang 717

Characterization of mechanical, thermal and rheological properties of silica-based nanocomposite filled thermoplastic polyurethane film

Sanghee Kim* 727

COMMUNICATION

Thermal conductivity of polyaniline reinforced epoxy resin

Youngwoo Cha · Munju Goh* 745

Amine detection via PDMS swelling in CNT/PDMS strain sensors

Youjin Song · Donghyeon Lee · Hyunjoo Seo · Jeewoo Lim* · Byungjin Koo* 751

ARTICLES

Heat-resistant luminescent films: a thermal study of fluorene/thiophene copolymer-elastomer blends

Agnaldo G. N. de Souza · Yasmin B. da Silva · Rebeca R. Rodrigues* · Alessandra S. Menandro · Laura O. Péres 757

Star-shaped PEDOT:PSS conductive polymers with reduced graphene oxide for high performance supercapacitor

Long Shen · Yunhee Ahn · Yoon Kim · Suyeon Kim · Sunghee Choi · Tae-Dong Kim* · Dongju Lee* 767

Injectable hyaluronic acid-cyclodextrin-based hydrogels for localized and sustained release of anticancer drugs

Dinh Trung Nguyen · Le Hang Dang · Hai Khoa Le · Lien Tuyet Ngan · Ngoc Quyen Tran · Ki Dong Park · Phuong Le Thi* 777

Preparation of hollow TiO₂ nanospheres with highly porous surface for effective nucleating agents in supercritical carbon dioxide foaming of thermoplastic polyurethanes

Jung Seob Shim · Hyejin Kim · Taio Chang · Yong Hwan Yoo · Seung Joon Lee · Kyu Hwan Park · Ho-jong Kang · Dong Hyun Lee* 789

Synthesis and characterization of the hyperbranched polymers based on nanoparticles for removal of pollutant from water

S. Mojtaba Amininasab* · Nadiye Fallahi · Parisa Mohammadi · Zahed Shami 799

Effective photo-crosslinking behavior of cinnamate-terminated star-shaped polylactides

Kazunari Masutani* · Hiroko Nakayama · Yoshiharu Kimura · Chan Woo Lee* 811