「Macromolecular Research」목차

정기간행영문지_ 33권 5호·2025년 5월

REVIEWS

Research roadmap for sustainable polymeric materials in Korea Jeong F. Kim · Hee Joong Kim · Jeyoung Park · Hyeonyeol Jeon · Jeung Gon Kim · Chungryong Choi · Ki-Ho Nam · Giyoung Shin · Sae Hume Park · Jihoon Shin · Dong-Ku Kang · Dongyeop X. Oh* · Dong Yun Lee* · Sung Woo Hong* · Gi-Ra Yi* 535

Advanced strategies for thermal conductivity enhancement in polymer composites for application as thermal management materials

Soo Jeong Jeong · Ho Sun Lim* 553

ARTICLES

Effect of glyoxal concentration and nanoparticles reinforcement on the functional properties of composite hydrogel for biomedical applications	
Devara Venkata Krishna \cdot Mamilla Ravi Sankar $^* \cdot$ Thopireddy Nagendra Reddy	569
Hydrogel-based wet adhesive with enhanced adhesion and stretchability Byeong Su Kang · Jin-Young Yu · Min Bae · Sei Bin Kim · Minsu Cho · Yong Min Kim* · Seong Min Kang*	593
Preparation of self-healing pHEMA hydrogels using dynamic covalent crosslinkers Jung-Hyun Choi · Byoung-Ki Cho*	601
Electrochemical sensor for the detection of mercury in seawater using carbon dots-carboxymethyl chitosan hydrogel	
S. Arundhathi · R. Gopika · P. Muhamed Ashraf [*] · P. K. Binsi	611
Unveiling novel grub-style pentacene crystals driven by hierarchical self-assembled crystallization Jungyoon Seo · Taehoon Hwang · Jisu Park · Yumin Kim · Hwa Sung Lee*	625
Synthesis of NAD-functionalized organic semiconducting polymer dots for fluorometric y-aminobutyric acid sensing	
Dong Hoon Lee \cdot Jong Woo Kim \cdot Tae Hyeon Kim \cdot Kune–Woo Lee \cdot Taek Seung Lee*	633
Effect of conjugation length on conjugated polymer-mediated intracellular protein delivery Golam Sabbir Sarker · Carlos R. Romagosa · Joong Ho Moon*	643
FGF-7 treatment accelerates wound healing in concentration-dependent manner by regulating TGF-β1 and VEGF expression Young-Sik Kim · Gun-Jae Jeong · Jung Soo Lee · Ju Woong Jang · Sae Hyun Kim · Heung Jae Chun ·	
Dae Hyeok Yang*	655
Solvent casting-salt leaching synthesis, characterization, and biocompatibility of three-dimensional porous chitosan/nano-hydroxyapatite scaffolds for bone tissue engineering	
Nguyen Kim Nga [*] · Tran Thanh Hoai · Nguyen Thi Ngoc Anh · Sujin Kim · Sihyun Kim · Hwan D. Kim [*] · Kang Moo Huh	667

고분자과학과 기술 제 36 권 3 호 2025년 6월 | 217

218 Polymer Science and Technology Vol. 36, No. 3, June 2025

「Macromolecular Research」목차

정기간행영문지_ 33권 6호·2025년 6월

REVIEWS

Electrical stimulation of bone regeneration in infected defects: biomaterial approaches Jinwoo Na · Hwan D. Kim*	683
Non-invasive wearable sensors for monitoring plant health Hyeongmin Park · Jaehee Han · Sumin Myoung · Minwoo Kim · Hyeona Lim · Daegun Kim* · Giwon Lee*	691
ARTICLES	
The interlaminar failure behavior and compression deformation characteristics of continuous carbon fiber reinforced polycarbonate-based multilayer composites	
Han Liu \cdot Xianliang Yang \cdot Mengchun You \cdot Erqiang Liu [*] \cdot Xin Hao [*] \cdot Gesheng Xiao \cdot Jinbao Lin	i 703
Adsorbing odor via antibacterial activated carbon fiber derived from waste textiles Woo Seok Cho • Joon Hyuk Lee • Sang Sun Choi*	* 715
A cornea-mimetic electrospun fiber-reinforced hydrogel platform for ocular surface applications Karen Chen* • Euisun Song • Wong-Gun Koh • David Myung	; 725
pH-triggered prodrug micelles loaded with curcumin-terminated mono, di-pyrimidine as visual antitumor agents: study of simulated sustained release in gastrointestinal tract, fluorescence imaging, and bioactivity evaluation Jiankang Feng · Shuo Wang · Tiantian Chai · Mengtong Zhang · Jingnan Hu · Xibing Feng · Junhua Shi* · Shihe Shao* · Chichong Lu* · Guofan Jin*	l
Switchable passive radiative cooling via mechanical stress for stretchable smart window Tae-Ho Kim · Sang Jun Kim · Su Hwan Lee · Sang Woo Bae · Min Ku Kim [*] · Young-Hoon Kim [*]	759
Tailoring hole transport polymers with substituent control for green perovskite LEDs with increased luminance and reduced efficiency roll-off	e
Chanbin Park · Young Seo Cho · Gwang-il Kim · Yurim Mo · Seon Joo Lee · Hyejin Na · Sungho Choi · Jaemin Lee*	* 767
Enzyme-crosslinked hyaluronic acid-based multifunctional hydrogel promotes diabetic wound healing Qiang Cheng · Jun Zhu · Su Tu · Xiaochun Fan*	* 779
Oxygen-generating gelatin-based cryogels for enhanced hemostasis and skin wound healing Sol Kim • Jeon Il Kang • Kyung Min Park*	789
Synthesis and characterization of difluorophenazine-based conjugated polymers for organic photovoltaics JinHan Lee • Hyun-Seock Yang • Chan-gi Shin • Suhee Song* • Won-Ki Lee • Jin Young Kim* • Sung Heum Park* • Youngeup Jin*	
Effect of surface morphology on the drug release in temperature responsive poly(<i>N</i> -isopropylacrylamide) hydrogel film through a high surface area patterned film	

Ambedkar Gandamalla \cdot Priyanka Kulshrestha \cdot Bo Kyoung Shin \cdot Komal Prajapati \cdot Do Sung Huh* 815