

TRANSPORT PHENOMENA

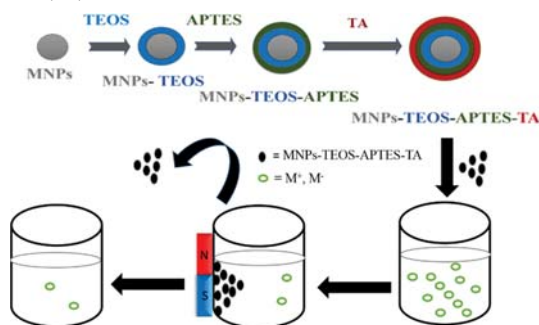
- Dong Young Kim and Ju Min Kim 837 Vortex generation by viscoelastic sheath flow in flow-focusing microchannel

CATALYSIS, REACTION ENGINEERING

- Jongha Park and Young-Woong Suh 843 Characteristics of exfoliated HfNb_3O_8 nanosheet derived from amorphous niobic acid and its application to dehydration of 2-heptanol
- Jia Li, Wei Liu, Yongxin Ding, Likui Liu, Fang Li, and Qiming Li 851 Composition modulation of $\text{Cu}/\text{Cu}_2\text{O}/\text{CuO}$ nanoparticles supported on carbon for *p*-nitrophenol reduction

ENVIRONMENTAL ENGINEERING

- Tehreema Nawaz, Mudassir Iqbal, Sonia Zulfiqar, and Muhammad Ilyas Sarwar 860 Trimellitic acid functionalized magnetite nanoparticles for the efficient removal of Pb(II) and Cr(VI) from wastewater streams



Preparation and Application of Trimellitic acid functionalized Fe_3O_4 nanoparticles

- Mingyao Song, Zhengyang Duan, Ronggao Qin, Xiaojun Xu, Shuli Liu, Shumin Song, Mengjiao Zhang, Yue Li, and Jiemei Shi 869 Simultaneous adsorption of Cd^{2+} and methylene blue from aqueous solution using xanthate-modified baker's yeast
- Xu Zhou, Wenbiao Jin, Song-fang Han, Xiaoye Li, Shu-Hong Gao, Chuan Chen, Guo-jun Xie, Renjie Tu, Qing Wang, and Qilin Wang 880 The mutation of *Scenedesmus obliquus* grown in municipal wastewater by laser combined with ultraviolet
- Rouzhan Feizi, Mehdi Ahmadi, Sahand Jorfi, and Farshid Ghanbari 886 Sunset yellow degradation by ultrasound/peroxymonosulfate/ CuFe_2O_4 : Influential factors and degradation processes
- Farnaz Tahmasebi, Mahmood Alimohammadi, Ramin Nabizadeh, Mehdi Khoobi, Kamaledin Karimian, and Ahmad Zarei 894 Performance evaluation of graphene oxide coated on cotton fibers in removal of humic acid from aquatic solutions

BIOTECHNOLOGY

- Kyungsoo Lee, Yong Jae Lee, Ho Nam Chang, and Ki Jun Jeong 903 Engineering *Trichosporon oleaginosus* for enhanced production of lipid from volatile fatty acids as carbon source
- Russel Navarro Menchavez and Sung Ho Ha 909 Fed-batch acetone-butanol-ethanol fermentation using immobilized *Clostridium acetobutylicum* in calcium alginate beads

SEPARATION TECHNOLOGY, THERMODYNAMICS

Seyed Jalil Poormohammadian, Parviz Darvishi, and Abdol Mohammad Ghalambor Dezfuli	914	Enhancing natural gas dehydration performance using electrospun nanofibrous sol-gel coated mixed matrix membranes
Seenivasan Venkatesh, Murukesan Sakthivel, Muthukumar Avinasilingam, Subramanian Gopalsamy, Eswaran Arulkumar, and Hari Prasanth Devarajan	929	Optimization and experimental investigation in bottom inlet cyclone separator for performance analysis
Yachan Rong and Runping Han	942	Adsorption of <i>p</i>-chlorophenol and <i>p</i>-nitrophenol in single and binary systems from solution using magnetic activated carbon
Heecheon Lee, Wonjoon Jang, and Jae W. Lee	954	Multiple transesterifications in a reactive dividing wall column integrated with a heat pump

MATERIALS (Organic, Inorganic, Electronic, Thin Films)

Mohammad Reza Eskandarian, Mohammad Hossein Rasoulifard, Mostafa Fazli, Leila Ghalamchi, and Hyeok Choi	965	Synergistic decomposition of imidacloprid by TiO₂-Fe₃O₄ nanocomposite conjugated with persulfate in a photovoltaic-powered UV-LED photoreactor
Raekyung Kim, Seohyeon Jee, Unjin Ryu, Hyeon Shin Lee, Se Yun Kim, and Kyung Min Choi	975	Surface-enhanced infrared detection of benzene in air using a porous metal-organic-frameworks film
Anna Lee, Myung Jun Kim, Seunghoe Choe, and Jae Jeong Kim	981	High strength Cu foil without self-annealing prepared by 2M5S-PEG-SPS
Fiaz Hussain, Samy M. Shaban, Jinhwan Kim, and Dong-Hwan Kim	988	One-pot synthesis of highly stable and concentrated silver nanoparticles with enhanced catalytic activity
John Miller, Kathy Nwe, Yongjoon Youn, Kyungjun Hwang, Chulmin Choi, Paul Waliaula Mola II, Youngjin Kim, and Sungho Jin	996	Development of a low environmental impact, porous solar absorber coating utilizing binary/ternary solvent blends for CSP systems
In-Hyun Kim, Hyo-Won Sim, Hee-Hyeon Hong, Dong-Woo Kim, Wonjoo Lee, and Dong-Koo Lee	1004	Effect of filler size on thermal properties of paraffin/silver nanoparticle composites

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