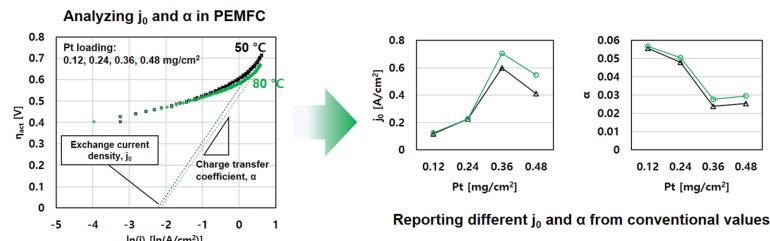


RAPID COMMUNICATION

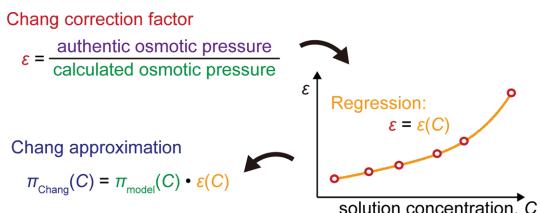
Hyungwook Lee, Changhee Han,
and Taehyun Park

577 Experimental investigation of charge transfer coefficient and exchange current density in standard fuel cell model for polymer electrolyte membrane fuel cells



Ho Nam Chang, Kyeong Rok Choi,
Sang Yup Lee, Mi-Hyang Seon,
and Yoon-Seok Chang

583 Chang approximation for the osmotic pressure of dilute to concentrated solutions



PROCESS SYSTEMS ENGINEERING, PROCESS SAFETY

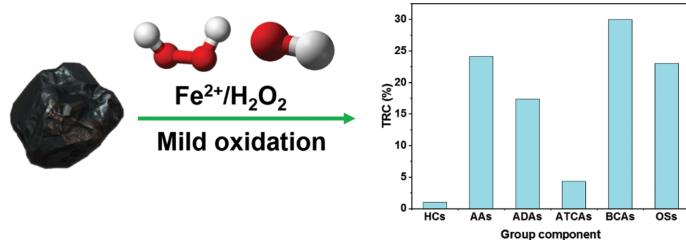
Gustavo Matheus de Almeida,
Song Won Park, Sung Chan Kim,
and Chang Jun Lee

588 A sampling-based stochastic optimization for a boiler process in a pulp industry

CATALYSIS, REACTION ENGINEERING

Shuai Chen, Wei Zhou, Mingjun Liu,
Guangbo Zhao, Qingxi Cao,
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597 Oxidation of Zhundong subbituminous coal by $\text{Fe}^{2+}/\text{H}_2\text{O}_2$ system under mild conditions



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604 Numerical analysis on the performance of an SCR monolith reactor

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and Muhammad Siddiq

614 Silver and palladium nanoparticle embedded poly(n-isopropylacrylamide-co-2-acrylamido-2-methylpropane sulfonic acid) hybrid microgel catalyst with pH and temperature dependent catalytic activity

Zhinan Yan, Yong Kang, Dan Li,
and Yu Chun Liu

623 Catalytic oxidation of sulfur dioxide over $\alpha\text{-Fe}_2\text{O}_3/\text{SiO}_2$ catalyst promoted with Co and Ce oxides

Abdullahi Abubakar, Changming Li,
Lin Huangfu, Shiqiu Gao, and Jian Yu

633 Simultaneous removal of particulates and NO by the catalytic bag filter containing $\text{V}_2\text{O}_5\text{-MoO}_3/\text{TiO}_2$

ENVIRONMENTAL ENGINEERING

- Yang Ling, Xiaokun Man,
Wenbo Zhang, Daolei Wang, Jiang Wu,
Qizhen Liu, Mingyan Gu, Yuyu Lin,
Ping He, and Tao Jia
- Norasikin Saman,
Gamal Abdulaziz Mohammed Alaghbari,
Safia Syazana Mohtar, Helen Kong,
Khairiraihanna Johari, Noorhalieza Ali,
and Hanapi Mat
- Xu Zhou, Wenbiao Jin, Lan Wang,
Lin Che, Chuan Chen, Shao-feng Li,
Xue-Ting Wang, Renjie Tu,
Song-Fang Han, Xiaoichi Feng,
and Nan-Qi Ren
- 641 **Moibdenum trioxide impregnated carbon aerogel for gaseous elemental mercury removal**
- 652 **Adsorption behavior of Ag(I) onto elemental sulfur-encapsulated silica nanocapsules for industrial applications**
- 663 **Alum sludge conditioning with ferrous iron/peroxymonosulfate oxidation: Characterization and mechanism**

BIOTECHNOLOGY

- Howaida AbdelSalam,
Heba Hassan El-Maghrbi,
Fouad Zahran, and Tamer Zaki
- Seungho Baek, Heekyung Park,
Keyao Chen, Hakyoung Park,
and Donghyun Lee
- 670 **Microwave-assisted production of biodiesel using metal-organic framework Mg₃(bdc)₃(H₂O)₂**
- 677 **Development of an implantable PCL/alginate bilayer scaffold to prevent secondary infections**

SEPARATION TECHNOLOGY, THERMODYNAMICS

- Boy Li, Yingjie Li, Wan Zhang,
Yuqi Qian, and Zeyan Wang
- Derya Unlu
- Yao Lu, Dongshu Sun, Yang Lu,
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- 688 **Simultaneous NO/SO₂ removal by coconut shell char/CaO from calcium looping in a fluidized bed reactor**
- 698 **Synthesis of inorganic doped polyvinyl alcohol/hydroxypropyl methyl cellulose mixed matrix membrane for pervaporative separation of dimethyl carbonate/methanol mixtures**
- 707 **Zwitterion imprinted composite membranes with obvious antifouling character for selective separation of Li ions**

MATERIALS (Organic, Inorganic, Electronic, Thin Films)

- Chun-Il Park, Wang-Soo Kim,
and Kee-Kahb Koo
- Hamid Heydari, Salman Ahmadipouya,
Amirhossein Shoaei Maddah,
and Mohammad-Reza Rokhforouz
- Hyunmin Jung, Youngsang Park,
Sreedevi Gedi,
Vasudeva Reddy Minnam Reddy,
Gérald Ferblantier,
and Woo Kyoung Kim
- Chaesu Kwak, Hyunsu Park,
Jun Hyuk Kim, Sehyeong Lim,
Jeewon Yang, Jieun Kim, Jieun Kim,
Jun Hyup Lee, and Joohyung Lee
- 716 **Size control of azilsartan by drowning-out crystallization with phase transformation**
- 724 **Experimental and mathematical analysis of electroformed rotating cone electrode**
- 730 **Al-doped zinc stannate films for photovoltaic applications**
- 736 **Surfactant-free fabrication of phase change material emulsions (PCMEs) using mineral oxide Pickering emulsifiers**