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## INVITED REVIEW PAPER

- 
- Dong-Woo Kim, Roshith Roshan, 1973 Catalytic applications of immobilized ionic liquids for synthesis of cyclic carbonates from carbon dioxide and epoxides  
Jose Tharun, Amal Cherian,  
and Dae-Won Park

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## RAPID COMMUNICATION

- 
- Yongjun Liu and Yu Zou 1985 Effects of aromatic cycle oils on performance of residue hydrotreating

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## PROCESS SYSTEMS ENGINEERING, PROCESS SAFETY

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- Pham Luu Trung Duong 1990 Robust PI controller design for integrator plus dead-time process with stochastic uncertainties using operational matrix  
and Moon Yong Lee

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## TRANSPORT PHENOMENA

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- Sun Hyung Kim, Myoung Do Seo, 1997 Effects of sweating time and cooling strategy on purification of N-vinyl-2-pyrrolidinone using a melt crystallizer  
Moon Seon Tak, Woo Sik Kim,  
Dae Ryuk Yang, and Jeong Won Kang

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## CATALYSIS, REACTION ENGINEERING

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- Sonali Prakashrao Chaudhari, 2001 Synthesis, characterization and photocatalytic recital of nest-like zinc oxide photocatalyst  
Anjali Babasaheb Bodade,  
and Gajanan Niranjanrao Chaudhari
- Maryam Lashanizadegan 2007 Synthesis, characterization and catalytic property of CuO and Ag/CuO nanoparticles for the epoxidation of styrene  
and Nasrin Erfaninia
- Mohammad Sadeghinia, 2012 Preparation of  $\alpha$ -MnO<sub>2</sub> nanowires and its application in low temperature CO oxidation  
Mehran Rezaei, and Ehsan Amini

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## ENERGY

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- Young Min Park and Haekyoung Kim 2017 Synthesis and applications of composite cathode based on Sm<sub>0.5</sub>Sr<sub>0.5</sub>CoO<sub>3- $\delta$</sub>  for solid oxide fuel cell

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## ENVIRONMENTAL ENGINEERING

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- Jiyuan Yang, Yu Lin, 2026 Effects of dye etching on the morphology and performance of ZnO nanorod dye-sensitized solar cells  
and Yongming Meng
- Muhammad Ajmal, 2030 Silver nanoparticles containing hybrid polymer microgels with tunable surface plasmon resonance and catalytic activity  
Zahoor Hussain Farooqi,  
and Mohammad Siddiq
- Changbo Zhou, Jiwei Wang, 2037 Treating electrolytic manganese residue with alkaline additives for stabilizing manganese and removing ammonia  
and Nanfang Wang
- Rusul Naseer Mohammed, 2043 Achieving partial nitrification in a novel six basins alternately operating activated sludge process treating domestic wastewater  
Saad Arab, and Lu Xiwu

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## BIOTECHNOLOGY

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- Hajar Jamshidian, 2052 Cometary degradation of *para*-nitrophenol and phenol by *Ralstonia eutropha* in a Kissiris-immobilized cell bioreactor  
Seyyedhadi Khatami, Azadeh Mogharei,  
Farzaneh Vahabzadeha,  
and Arvin Nickzad

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### SEPARATION TECHNOLOGY, THERMODYNAMICS

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- De Sun, Bing-Bing Li, 2059 **Preparation and characterization of poly(dimethylsiloxane)-polytetrafluoroethylene (PDMS-PTFE) composite membrane for pervaporation of chloroform from aqueous solution**  
and Zhen-Liang Xu
- Emad Ali, Inas Alnashef, 2068 **Determination of cost-effective operating condition for CO<sub>2</sub> capturing using 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid**  
Abdelhamid Ajbar, Sarwono Mulyono,  
Hanee Farzana Hizaddin,  
and Mohamed Kamel Hadj-Kali
- Kaichen He, Fengxian Qiu, Jiao Qin, 2078 **Preparation and characterization of L-phenylalanine-derivatized  $\beta$ -cyclodextrin-bonded silica and its application on chiral separation of alanine acid racemates**  
Jie Yan, and Dongya Yang

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### MATERIALS (Organic, Inorganic, Electronic, Thin Films)

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- Songyi Park, Min-Kyu Son, 2088 **The effects of electrolyte additives on the cell performances of CdS/CdSe quantum dot sensitized solar cells**  
Soo-Kyoung Kim, Myeong-Soo Jeong,  
Kandasamy Prabakar, and Hee-Je Kim

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### POLYMER, INDUSTRIAL CHEMISTRY, FLUIDIZATION, PARTICLE TECHNOLOGY

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- Fahimeh Askari, Mehdi Barikani, 2093 **Study on thermal stability of polyurethane-urea based on polysiloxane and polycaprolactone diols**  
and Mohammad Barmar
- Shaista Ali, Muhammad Akhyar Farrukh, 2100 **Photodegradation of 2,4,6-trinitrophenol catalyzed by Zn/MgO nanoparticles prepared in aqueous-organic medium**  
and Muhammad Khaleeq-ur-Rahman
- Mohammed Said Benzagouta, 2108 **Ionic liquids as novel surfactants for potential use in enhanced oil recovery**  
Inas Muen AlNashef,  
Wimpy Karnanda,  
and Khalid Al-Khidir