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REVIEW PAPER

- XiaoJing Hu, LiLong Yan, 1911 **Biosorption mechanism of Zn²⁺ from aqueous solution by spent substrates of pleurotus ostreatus**
Haidong Gu, TingTing Zang, Yu Jin,
and JuanJuan Qu

- Chao Chen, Jun Kim, 1919 **CO₂ capture by amine-functionalized nanoporous materials: A review**
and Wha-Seung Ahn

PROCESS SYSTEMS ENGINEERING, PROCESS SAFETY

- Qingchao Jiang and Xuefeng Yan 1935 **Improved fault detection in nonlinear chemical processes using WKPCA-SVDD**
Chunhong Lu, Shaoqing Xiao, 1943 **Hyperplane distance neighbor clustering based on local discriminant analysis for complex chemical processes monitoring**
and Xiaofeng Gu

TRANSPORT PHENOMENA

- Radhe Shyam 1954 **Low Reynolds number flow of power-law fluids over two square cylinders in tandem**
and Rajendra Prasad Chhabra
Shyam Kumar and Ashok Khanna 1964 **Experimental analysis and development of correlations for gas holdup in high pressure slurry co-current bubble columns**

CATALYSIS, REACTION ENGINEERING

- Fang Guo, Shaoqing Guo, 1973 **The effects of MCM-41's calcination temperature on the structure and hydrodenitrogenation over NiW catalysts**
Xian-Xian Wei, Xiaoxiao Wang,
Hongwei Xiang, Zegang Qiu,
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Jung Eun Park and Eun Duck Park 1985 **Optimal Ru particle size for selective CO oxidation in H₂ over Ru/κ-Al₂O₃**

ENERGY

- Mahdi Khorashadizadeh, 1994 **Reliable modeling of discharge process for adsorbed natural gas storage tanks**
Mahdi Niknam Shahrok,
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Ming-xiong He, Han Qin, Xiao-bo Yin, 2003 **Direct ethanol production from dextran industrial waste water by *Zymomonas mobilis***
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ENVIRONMENTAL ENGINEERING

- Ming Zhou, Shufa Zhu, Fang Liu, 2008 **Pulse-enhanced electrokinetic remediation of fluorine-contaminated soil**
and Dongfang Zhou
Mahdi Farzadkia, Kourosh Rahmani, 2014 **Investigation of photocatalytic degradation of clindamycin antibiotic by using nano-ZnO catalysts**
Mitra Gholami, Ali Esrafili,
Ayat Rahmani, and Hassan Rahmani

Shahrzad Arshadi, Javad Moghaddam, 2020 **LaMer diagram approach to study the nucleation and growth of Cu₂O nanoparticles using supersaturation theory**

BIOTECHNOLOGY

- Ru-ren Li, Qun-li Yu, Ling Han, 2027 **Isolation and enzymatic characterization of the first reported hyaluronidase from Yak (*Bos grunniens*) testis and Mai-rui An**
- Bipinchandra K. Salunke, Jia Shin, 2035 **Rapid biological synthesis of silver nanoparticles using *Kalopanax pictus* plant extract and their antimicrobial activity**
- Shailesh S. Sawant, Bassam Alkotaini, Shichoon Lee, and Beom Soo Kim

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- Mohammad Mohagheghian, 2041 **Gas separation properties of polyvinylchloride (PVC)-silica nanocomposite membrane**
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- Yuanyuan Du and Pengwu Zheng 2051 **Adsorption and photodegradation of methylene blue on TiO₂-halloysite adsorbents**
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- Yong Sun Won 2077 **Exploration for the potential precursors for zirconium carbide atomic layer deposition via comprehensive computational mechanistic study of the gas phase decomposition of neopentyl zirconium derivatives**

MATERIALS (Organic, Inorganic, Electronic, Thin Films)

- Sanghyun Jeong, Lae-Hyun Kim, 2081 **Effect of nafion membrane thickness on performance of vanadium redox flow battery**
- Yongchai Kwon, and Sunhoe Kim

POLYMER, INDUSTRIAL CHEMISTRY, FLUIDIZATION, PARTICLE TECHNOLOGY

- Gyeong Sook Cho, Dong-Hyun Lee, 2088 **Characterization of surface charge and zeta potential of colloidal silica prepared by various methods**
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