

## PROCESS SYSTEMS ENGINEERING, PROCESS SAFETY

- Kyungtae Park, Dongil Shin, 1053 **Risk based 3-dimensional and multifloor plant layout optimization for liquefied natural gas (LNG) liquefaction process**  
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## TRANSPORT PHENOMENA

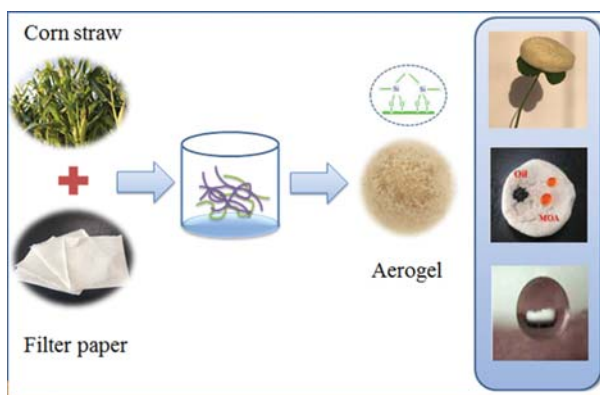
- Mukyeong Kim, Insoo Ye, 1065 **Effect of slag viscosity model on transient simulations of wall slag flow in an en-**  
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- Hung Hai Pham, Young-Il Lim, 1073 **Hydrodynamics and design of gas distributor in large-scale amine absorbers using**  
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- Junyeong Kim, Jeong Yeon Do, 1089 **Photoreduction of  $\text{CO}_2$  into  $\text{CH}_4$  using  $\text{Bi}_2\text{S}_3$ - $\text{TiO}_2$  double-layered dense films**  
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Daryoush Emadzadeh, Woei-Jye Lau,  
and Mohammad Mehdi Baneshi
- Yuan Li, Xiaodong Liu, Weijie Cai, 1119 **Preparation of corn straw based spongy aerogel for spillage oil capture**  
Yafeng Cao, Yanfeng Sun,  
and Fengzhi Tan



1. Corn straw based aerogel (MTA-CS) was prepared from agriculture residue through a simple approach.
2. Silanized modified corn straw aerogel present good hydrophobicity.
3. The resultant MTA-CS exhibit remarkable adsorption ability to crude oils and organic liquids.

- Mansour Baziar, Ramin Nabizadeh, Amir Hossein Mahvi, Mahmood Alimohammadi, Kazem Naddafi, Alireza Mesdaghinia, and Hassan Aslani 1128 **Effect of dissolved oxygen/nZVI/persulfate process on the elimination of 4-chlorophenol from aqueous solution: Modeling and optimization study**

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- Ho Won Ra, Sung Min Yoon, Tae-Young Mun, Myung Won Seo, Ji Hong Moon, Sang Jun Yoon, Jae Ho Kim, Jae Goo Lee, Min Zy Jung, and Jong Dae Lee 1219 **Influence of surfactants and experimental variables on the viscosity characteristics of coal water mixtures**
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