

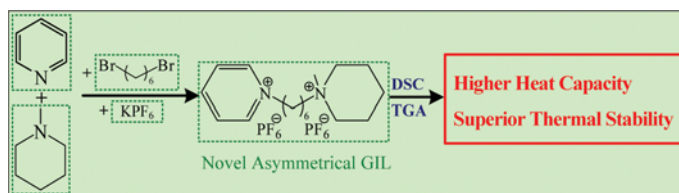
The Korean Journal of Chemical Engineering

December 2015
Volume 32, Number 12

Korean J. Chem. Eng. 32(12) 2369-2578
Print ISSN 0256-1115
Online ISSN 1975-7220

RAPID COMMUNICATION

- Xuzhao Yang, Jun Wang, 2369 **Synthesis and thermodynamic properties of a novel pyridinium-based asymmetrical gemini ionic liquid**
Wenyuan Zou, and Jinchao Wu



PROCESS SYSTEMS ENGINEERING, PROCESS SAFETY

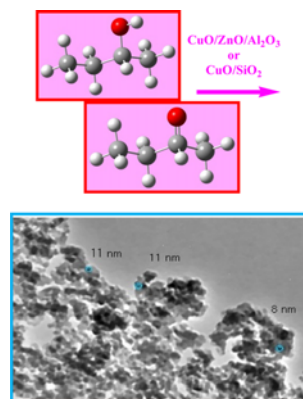
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and Saeed Sahebdehfar



The CuO/ZnO/Al₂O₃ and CuO/SiO₂ nanocatalysts were synthesized by three methods including co-precipitation, sol-gel and impregnation and characterized by XRD, BET, XRF, FE-SEM and TPR analyses. The optimum synthesis conditions were designed by Central Composite Design. Also, the nanocatalysts were applied in dehydrogenation of 2-butanol to MEK.

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