

Brief CV

***此表请提供中英翻译**

English Name	Guo Liying	中文姓名	郭立颖	
Gender	Female	Title (Pro./Dr.)	Dr.	
Position (President...)		Country	China	
University/Department	Shenyang University of Technology / School of Petrochemical Engineering (沈阳工业大学/石油化工学院)			
Personal Web Sites	https://user.qzone.qq.com/278903511/infocenter			
Research Area	Polymer materials and chemical engineering (高分子材料与化学工程)			
Brief introduction of your research experience: <p>I researched the preparation of functional ionic liquids and their application to modify polymer materials or as catalysts to synthesize cyclic carbonate with carbon dioxide and epoxy alkane. I have presided over the national natural science foundation, Liaoning natural science foundation and Liaoning education department projects. Moreover, I have cooperated with chemical enterprises to complete 5 scientific research projects. I have published more than 30 academic papers by SCI and EI retrieval, and authorized 8 invention patent.</p> <p>本人从事功能化离子液体制备及其在改性高分子材料或催化二氧化碳和环氧烷烃合成环状碳酸酯方面的研究。主持 1 项国家自然科学基金项目, 1 项辽宁省自然科学基金项目和 2 项辽宁省教育厅项目。此外, 本人还与化工企业合作, 完成 5 项科研课题。发表被 SCI 和 EI 收录的学术论文 30 余篇, 授权发明专利 8 项。</p>				
报告题目及摘要/ Title & Abstract *				
报告题目/Title:	composite ionic liquids immobilized on molecular sieve for continuous cycloaddition of CO ₂ and propylene oxide in fixed bed reactor			

摘要/ Abstract:

In this work, the functionalized composite ILs (ILX/(ZnBr₂)₂) with hydroxyl, carboxyl and amino group which immobilized on molecular sieve (MCM-X) supporter catalysts were synthesized with the help of silane coupling agent 3-chloropropyltriethoxysilane (CPTES). Cycloaddition of CO₂ and propylene oxide (PO) was carried through in fixed bed reactor. The results showed that MCM-X-CPTES-[BMIM][Zn₂Br₅] owned the best catalytic properties in this reaction, a high selectivity and yeild of propylene carbonate (PC) could be reached at 130°C with CO₂ pressure (2.5 MPa) in the present of LHSV was 0.75 h⁻¹ and the molar ratio of CO₂/PO was 5:1. The yeild stabilized at 81.4% after 50 h in fixed bed reactor.

*****All the columns need to be filled in.