

所属学院 化学与分子工程学院

学科领域 物理化学

邮箱 junhu@ecust.edu.cn

个人简介

重点研究多孔材料的表界面特性及其在环境领域中的应用。研究兴趣包括多孔材料的自组装机理；多孔材料孔道结构和形貌调控；孔道表界面官能团与目标分子的相互作用；流体在受限空间的分子传递；多孔材料在大气污染物的吸附分离、汽柴油深度吸附脱硫、水体抗生素的分离与降解和重金属深度脱除等应用。主持国家自然科学基金面上项目 5 项，上海市科技创新国际合作项目 1 项，获得欧盟第 7 框架玛丽居里国际合作项目支持，国家 973 计划项目参与单位责任人，作为研究骨干参与国家 863 计划、科技支撑项目、自然科学基金重点项目等。已在国内外重要期刊 AIChE J.、Chem. Eng. J.、J. Mater. Chem. A 等发表研究论文 120 余篇，申请 15 项中国发明专利（授权 10 项）。

研究方向

多孔材料表界面，吸附，膜分离，催化降解

研究成果及主要发表文章

1. Chenhui Wang, Fangyuan Guo, He Li, Jian Xu, Jun Hu*, Honglai Liu, Meihong Wang. A porous ionic polymer bionic carrier in a mixed matrix membrane for facilitating selective CO₂ permeability. J. Membr. Sci. 2020(598):117677.
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