



个人简介

主要从事卤水资源和大宗工业废物综合利用关键技术研究，涉及的研究背景主要是工业结晶、海水淡化和无机功能材料制备。作为负责人主持国家自然科学基金、国家重点研发计划、行业龙头企业委托技术开发等多个研究项目。发表论文 40 余篇，获得河北省科技进步二等奖 1 项，上海市技术发明三等奖 1 项。

教育经历：

2014 – 2015，德国马丁路德－哈勒维滕伯格大学，访学学者

2004 – 2010，华东理工大学，化学工程，博士

1998 – 2002，河北工业大学，化学工程与工艺，学士

工作经历：

2010 – 至今，华东理工大学，资源与环境工程学院，讲师、副教授

2002 – 2004，河北工业大学，化工学院，助教

研究方向

1. 工业废水处理及资源化技术研究
2. 难降解有机污染物处理技术研究
3. 虚拟现实技术开发及应用

研究成果及主要发表文章

- [1] 吴易梅，孙玉柱，路贵民，宋兴福，于建国. 结晶 - 水热法制备六角片状氢氧化镁，高校化学工程学报，2019，33（2）：425-434.
- [2] 乔婧，孙玉柱，宋兴福，于建国. 双极膜电解 NaBr 制备酸碱研究. 华东理工大学学报，2019（2）：1-7.
- [3] Zhang J, Sun Y, and Yu J, et al. Investigation of amorphous calcium carbonate' s formation under high concentration of magnesium: The prenucleation cluster pathway [J]. Journal of Crystal Growth, 2018, 494: 8-16.
- [4] Xiaoxue Sun, Yuzhu Sun, Jianguo Yu. Removal of ferric ions from aluminum solutions by solvent extraction. II: Kinetics study, Environmental Progress & Sustainable Energy, 2018, 37 (6):1918-1924.
- [5] Zhang J, Dong C, Sun Y, and Yu J, et al. Mechanism of Magnesium's Influence on Calcium Carbonate Crystallization: Kinetically Controlled Multistep Crystallization [J]. Crystal Research and Technology, 2018, 53: 1-8.
- [6] Shaojun Duan, Yuzhu Sun, Xingfu Song, and Jianguo Yu. Morphology and Growth Mechanism Study of Lithium Carbonate Synthesized by Reactive Crystallization. Crystal Research and Technology, 2018, 53, DOI: 10.1002/crat.201700185
- [7] 王一莹，孙玉柱，于建国. 钙法分步结晶制备碱式硫酸镁晶须. 无机盐工业，2018，50（11）：34-37
- [8] Zhang J, Sun Y, and Yu J. Qualitative discussion of prenucleation cluster role in crystallization of calcium carbonate under high concentration of magnesium based on experimental phenomena [J]. Journal of Crystal Growth, 2017, 478: 77-84.
- [9] 陈静，张杰，金艳，孙玉柱，宋兴福，于建国. 纳滤 - 反渗透膜集成处理海水淡化浓盐水处理工艺研究. 水处理技术，2017（5）：108-113
- [10] 陈静，张杰，金艳，孙玉柱，宋兴福，于建国. 纳滤和电渗析对浓海水一二价离子的分离性能. 过程工程学报，2017，17（3）：491-49
- [11] Xiaoxue Sun, Yuzhu Sun, Jianguo Yu. Removal of ferric ions from aluminum solutions by solvent extraction. I Iron removal. Separation & purification 2016, 159:18-22.
- [12] Jin Miaomiao, Patrick Froberg, Sun Yuzhu, Li Ping, Yu Jianguo, Joachim Ulrich. The thermal decomposition study of $MgCl_2 \cdot 6H_2O \cdot C_4H_8O_2$ [J]. Chemical Engineering Research and Design, 2015, 104: 256-263.
- [13] Xiaoxue Sun, Sun Yuzhu, Jianguo Yu. Cooling Crystallization of Aluminum Sulfate in Pure Water Modulated by Sodium Dodecylbenzenesulfonate [J]. Crystal Research and Technology, 2015, 50(8): 682-687.
- [14] Xiaoxue Sun, Sun Yuzhu, Jianguo Yu. Crystal structure of aluminum sulphate hexadecahydrate and its morphology[J]. Crystal Research and Technology, 2015, 50（4）：293-298.
- [15] Xiaoxue Sun, Sun Yuzhu, Jianguo Yu. Leaching of aluminum from coal spoil by mechanochemical activation [J]. Frontiers of Chemical Science and Engineering, 2015, 9(2): 216-223.
- [16] Xiaoxue Sun, Sun Yuzhu, Jianguo Yu. Cooling Crystallization of Aluminum Sulfate in Pure Water [J]. Journal of Crystal Growth, 2015, 419: 94-101.
- [17] 靳苗苗，孙玉柱，李平，于建国. 基于 Origin 和 Matlab 软件对 $MgCl_2 \cdot H_2O \cdot C_4H_8O_2$ 三元体系相图的可视化研究 [J]. 计算机与应用化学. 32(9):1063-1070, 2015
- [18] 孙晓雪，孙玉柱，于建国，叶银梅. 硫酸铝冷却结晶动力学研究 [J]. 无机盐工业，2015，47（8）：23-25
- [19] 刘婷婷，孙玉柱，孙泽，宋兴福，于建国. 浓海水制备氢氧化镁颗粒的水热改性 [J]. 过程工程学报，2015，15(5): 824-830
- [20] Yuzhu Sun, Xing-Fu Song, Miao-Miao Jin, Wang Jin, Jian-Guo Yu. Gas-Liquid Reactive Crystallization of Lithium Carbonate by a Falling Film Column [J]. Industrial & Engineering Chemistry Research, 2012, 52（49）：17598–17606.
- [21] Yuzhu Sun, Xingfu Song, Jin Wang, Jianguo Yu. Preparation of Li_2CO_3 by Gas-Liquid Reactive Crystallization of $LiOH$ and CO_2 [J]. Crystal Research and Technology, 2012, 47(4), 437-442.
- [22] Yuzhu Sun, Xingfu Song, Jin Wang, Jianguo Yu. Preparation of lithium carbonate hollow spheres by spray pyrolysis [J]. Crystal Research and Technology, 2011, 46(2): 173-177.
- [23] Yuzhu Sun, Xingfu Song, Jin Wang, Yan Luo, Jianguo Yu. Determination of seeded supersolubility of lithium carbonate using FBRM [J]. Journal of Crystal Growth, 2010, 312(2): 294-300.