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简历介绍

张锁江，男，1964 年 11 月生，中国科学院院士，曾任中国科学院过程工程研究所所长，中国科学院绿色过程制造创新研究院院长，中国科学院大学化工学院院长，中国化工学会副理事长，中国化工学会离子液体专业委员会主任。主要从事离子液体与绿色过程研究，突破了离子液体规模制备、工艺创新和系统集成的难题，实现了多项绿色成套技术的工业应用，推动了离子液体绿色技术产业化进程。相关研究成果在重要学术刊物上共发表SCI 论文500 余篇，SCI 总引18000 余次，H-index 65；编写中英文书籍10 部；获授权发明专利130 余件。担任两个国际期刊和《过程工程学报》主编。承担科技部变革性重大专项、基金委重大项目及创新群体项目、中科院先导专项等。获国家自然科学二等奖、何梁何利科学与技术进步奖、中科院科技促进发展奖、侯德榜化工科技成就奖等。

代表论著

1.J. Q. Feng, H. S. Gao, L. R. Zheng, Z. P. Chen, S. J. Zeng, C. Y. Jiang, H. F. Dong, Licheng Liu, S. J. Zhang\*, X. P. Zhang\*. A Mn-N3 single-atom catalyst embedded in graphitic carbon nitride for efficient CO2 electroreduction. Nat. Commun., 2020, 11(1):4341

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3.D. L. Fang, Y. L. Wang, C. Qian, X. Z. Liu, X. Wang, S. M. Chen\*, S. J. Zhang\*. Synergistic regulation of polysulfides conversion and deposition by MOF‐derived hierarchically ordered carbonaceous composite for high‐energy Lithium–sulfur batteries. Adv. Funct. Mater., 2019, 29(19): 1900875

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5.Q. Q. Miao, Y. Y. Du, G. T. Wang, Z. C. Sun, Y. H. Zhao, S. J. Zhang\*. In-situ Generated 3D Hierarchical Co3O4@MnO2 Core-Shell Hybrid Materials: Self-assembled Fabrication, Morphological Control and Energy Applications. J. Mater. Chem. A, 2019, 7(11): 5967-5980

6.Y. Y. Cheng, L. Zhang, S. Xu, H. T. Zhang, B. Z.  Ren, T. Li\*, S. J. Zhang\*. Ionic liquid functionalized electrospun gel polymer electrolyte for use in a high-performance lithium metal battery. J. Mater. Chem. A, 2018, 6(38): 18479-18487

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9.X. Zhang, D. Bao, Y. Huang, H. F. Dong, X. P. Zhang\*, S. J. Zhang\*. Gas–liquid mass-transfer properties in CO2 absorptionsystem with ionic liquids. AIChE J., 2014,60(8): 2929-2939

10.1. Q. Su, Y. Q. Qi, X. Q. Yao, W. G. Cheng\*, L Dong, S. S. Chen, S. J. Zhang\*. Ionic Liquids Tailored and Confined by One-Step Assembly with Mesoporous Silica for Boosting the Catalytic Conversion of CO2 into Cyclic Carbonates. Green Chem., 2018, 20, 3232–3241

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Biography

Zhang Suojiang, male, born in November 1964, is an Academician of the Chinese Academy of Sciences (CAS). He once served as the Director of the Institute of Process Engineering, CAS, the Director of the Innovation Academy for Green Manufacture, CAS, the Dean of the School of Chemical Engineering of the University of Chinese Academy of Sciences, the Vice President of the Chemical Industry and Engineering Society of China, and the Director of the Ionic Liquid Professional Committee of the Chemical Industry and Engineering Society of China. His primary research focuses on ionic liquids and green processes. He has overcome challenges in the large-scale preparation, process innovation, and system integration of ionic liquids, achieving industrial applications of multiple green technologies and promoting the industrialization of green ionic liquid technologies. His research has resulted in over 500 SCI papers published in prestigious journals, with more than 18,000 SCI citations and an H-index of 65. He has authored 10 books in both Chinese and English and holds over 130 authorized invention patents. He serves as the editor-in-chief of two international journals and the Chinese Journal of Process Engineering. He has undertaken Major Transformative Projects of the Ministry of Science and Technology, Major Projects and Innovative Group Projects of the National Natural Science Foundation of China, and Leading Projects of Chinese Academy of Sciences. He has received the Second Prize of National Natural Science Award, the Ho Leung Ho Lee Foundation Prize for Scientific and Technological Progress, the Chinese Academy of Sciences Award for Promoting Scientific Development, and the Achievement Award of Hou Debang Chemical Science and Technology Award.

Representative Works

1. J. Q. Feng, H. S. Gao, L. R. Zheng, Z. P. Chen, S. J. Zeng, C. Y. Jiang, H. F. Dong, Licheng Liu, S. J. Zhang\*, X. P. Zhang\*. A Mn-N3 single-atom catalyst embedded in graphitic carbon nitride for efficient CO2 electroreduction. Nat. Commun., 2020, 11(1):4341

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9. X. Zhang, D. Bao, Y. Huang, H. F. Dong, X. P. Zhang\*, S. J. Zhang\*. Gas-liquid mass-transfer properties in CO2 absorptionsystem with ionic liquids. AIChE J., 2014,60(8): 2929-2939

10.1. Q. Su, Y. Q. Qi, X. Q. Yao, W. G. Cheng\*, L Dong, S. S. Chen, S. J. Zhang\*. Ionic Liquids Tailored and Confined by One-Step Assembly with Mesoporous Silica for Boosting the Catalytic Conversion of CO2 into Cyclic Carbonates. Green Chem., 2018, 20, 3232-3241