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井立强

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井立强，男，1973年出生，博士，教授、博士生导师，教育部长江学者特聘教授、科技部中青年科技创新领军人才、教育部创新团队带头人、教育部新世纪优秀人才、黑龙江省龙江学者特聘教授、省政府特殊津贴专家、省级领军人才梯队带头人、省杰出青年科学基金获得者和省青年科技奖获得者。

1991-1997年在吉林大学分析测试专业学习与工作，1997 -2000年在吉林大学攻读环境科学专业理学硕士学位，2000-2003年在哈

尔滨工业大学攻读环境工程专业工学博士学位。2003年5月至今在黑龙江大学工作，2004和2006年先后被破格晋聘为副教授和教授。2004-2006年在吉林大学化学学科博士后科研流动站在职做博士后研究工作。2009-2010年在英国Imperial College London化学系作为国家公派访问教授访学1年。

现任黑龙江大学化学化工与材料学院党委书记、功能无机材料化学教育部重点实验室副主任，中国复合材料学会矿物复合材料专业委员会副主任委员、中国可再生能源学会光化学专业委员会委员、中国感光学会光催化专业委员会常务委员和全国材料新技术发展研究会常务理事。多年来坚持主讲本科生“材料结构分析”、硕士生“表面物理化学”和博士生“瞬态光物理”等重要课程。

近10年来主要围绕环境与能源光催化领域开展研究，在材料光生电荷动力学过程调控及分析等已形成了特色。创新性地证实了光生电子还原活化吸附氧是影响污染物转化为CO₂等性能的关键，并成功地发展了可促进氧气吸附的修饰新策略；也证实了在可见光催化剂表面合适能量光生电子还原活化吸附氧和CO₂等是影响环境物质转化与能源再生产性能的关键，并成功地发展了引入适当水平电子能级平台的新策略。共主持承担了包含国家自然科学基金联合基金重点项目、重大研究计划培育项目和973计划前期研究专项在内的10余项省部级以上重要课题。已获中国授权发明专利11项，和省科学技术奖（自然科学类）一等奖2项。

作为第1或通讯作者，至今已在“Chem Soc Rev”、“Energy Environ Sci”、“Adv Energy Mater”、“ACS Catal”、“Appl Catal B: Environ”、“J Mater Chem A”、“ACS Appl Mater Inter”、“Chem Commun”、“Environ Sci Tech”、“Environ Sci: Nano”和“Sus Energy Fuel”等上发表SCI论文140余篇，其中IF大于3的1、2区国际SCI论文有100余篇、ESI ToP论文16篇。被SCI论文引用7800余次，个人SCI H因子38，连续近4年成为了Elsevier公司发布的中国高被引学者。研究论文多次被“ACS C&EN”、“Wiley China”和“X-Mol”等学术媒体和交流平台重点推介。经常性地受邀在与环境、能源、催化、材料等相关的国内外重要学术会议上做主题报告等。

近年来代表性论文如下：

Jing Liqiang, Zhou Wei, Tian Guohui, Fu Honggang*. Surface tuning for oxide-based nanomaterials as efficient photocatalysts. **Chemical Society Reviews** 2013, 42, 9509-9549. (SCI IF=40.182, 1区)

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prolonging charge lifetime and catalyzing H₂ evolution with H₂O. **Applied Catalysis B: Environmental** **2018**, 237, 50-58. (SCI IF= 11.698, 1区)

Humayun Muhammad, Sun Ning, Raziq Fazal, Zhang Xuliang, Yan Rui, Li Zhijun, Qu Yang* and **Jing Liqiang***. Synthesis of ZnO/Bi-doped porous LaFeO₃ nanocomposites as highly efficient nano-photocatalysts dependent on the enhanced utilization of visible-light-excited electrons. **Applied Catalysis B: Environmental** **2018**, 231, 23-33. (SCI IF= 11.698, 1区)

Wang Jinshuang, Qin Chuanli*, Wang Hongjian, Chu Mingna, Zada Amir, Zhang Xuliang, Li Jiadong, Raziq Fazal, Qu Yang and **Jing Liqiang***. Exceptional photocatalytic activities for CO₂ conversion on Al-O bridged g-C₃N₄/α-Fe₂O₃ Z-scheme nanocomposites and mechanism insight with isotopes. **Applied Catalysis B: Environmental** **2018**, 221, 459-466. (SCI IF= 11.698, 1区)

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