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2007年本科毕业于合肥工业大学应用化学专业，2013年博士毕业于中科院等离子体物理所，2013至2015年于澳大利亚昆士兰理工大学从事钙钛矿太阳电池研究。2015至2018年于日本国立物质材料研究所光伏中心从事高效率钙钛矿太阳电池科研工作；在高效率钙钛矿电池的器件结构、膜工艺优化、界面改性等方面对电池的效率、成本和稳定性等核心问题进行了系统性的探索研究。2018年至今通过人才引进在华北电力大学新能源学院工作，主要研究方向为新型高效太阳电池、新型光电探测器。

在*Joule, Advanced Functional Materials，Advanced Science，Journal of Materials Chemistry A*等国际著名期刊上发表SCI论文七十余篇，7篇文章入选ESI前1%高被引论文，专利6项，SCI总引用次数达＞5000次，h-index30，以第一/通讯作者发表SCI论文26篇，总影响因子＞320，其中在能源顶级期刊Joule上表发论文2篇（IF=46.048）。主持科技部国家重点研发计划课题，子课题，自然科学基金，科技部外专青年人才国家级项目等。担任科技部项目评审专家，中国光电产业平台专家委员会理事，国家重点研发计划课题负责人等社会职务。

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