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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，研究方向为染料敏化太阳电池，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的研究。2015至2018年于日本国立物质材料研究所光伏中心从事高效钙钛矿太阳电池及其原位表征技术的研究； 2018年至今通过人才引进在华北电力大学新能源学院工作，主要研究方向为钙钛矿太阳电池及其叠层器件，新型光电探测器，钙钛矿材料原位表征技术。

在*Joule, Device, Advanced Functional Materials，Advanced Science*等国际著名期刊上发表SCI论文八十余篇，申请专利8项，多篇文章入选ESI前1%高被引论文，SCI总引用次数达＞6000次，h-index 35。以第一/通讯作者发表SCI论文30篇，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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代表性论文：

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| SCI一区文章发表期刊 | 第一/通讯  作者篇数 | 影响因子IF |
| ***Joule*** | **2** | **46.048** |
| *Adv. Sci.* | 2 | 17.521 |
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