



福建師範大學 物理与能源学院
FUJIAN NORMAL UNIVERSITY College of Physics and Energy

福建省太阳能转换与储能工程技术研究中心
Fujian Provincial Engineering Technology Research Center of Solar Energy Conversion and Energy Storage
福建省量子调控与新能源材料重点实验室
Fujian Provincial Laboratory of Quantum Manipulation and New Energy Materials

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刘金养

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刘金养，江西赣州人，凝聚态物理博士，副教授，硕士生导师。近年来一直从事二维纳米结构的设计、制备、结构表征、性能调控及其在光电探测方面的应用。在化学气相沉积法生长石墨烯纳米结构、新型二维纳米材料和新型太阳能电池等研究开发上取得了一系列研究成果和重要进展，累计发表SCI论文20余篇，第一或通讯作者论文包括国际顶级期刊*Nanoscale* (SCI一区, 影响因子: 7.76), *Crystal Growth & Design* (SCI一区, 影响因子: 4.415), *The Journal of Physical Chemistry C*, *Nanoscale Research Letters*, *Solar Energy*, *Journal of Alloy and Compound*等。这些研究成果被国际顶级刊物*Chem. Rev.*, *Nature. Comm* (大篇幅评论), *Advanced Materials*, *Small*, *Nanoscale*和*ACS Nano*等引用超过200次，单篇最高引用达41次。此外，申请国家发明专利5项。

研究领域:

1. 新型石墨烯纳米结构的设计、制备、结构表征及其性能研究;
2. 新型二维纳米材料的可控生长及其光电探测应用;
3. 新型太阳能电池的设计、制备及光电性能研究。

代表论文:

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- (11) Guilin Chen*, Jianmin Li, Miaoju Wu, **Jinyang Liu**, Fachun Lai, Changfei Zhu*, Effect of post sulfurization temperature on the microstructure of Cu₂ZnSn(S,Se)₄ thin film, *Materials Letters*, 159, 32–34, **2015**
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科研项目:

目前主持福建省科技厅自然科学基金项目（2017J05003），福建省教育厅(A类)（JA15140）；参与国家自然科学基金面上/青年项目各一项（11374274、51502037）。

获奖情况:

1. 第七届青年教师教学技能大赛暨第三届全省高校青年教师教学竞赛选拔赛二等奖；
2. “2017能源与环境领域全国博士后学术论坛”优秀论文二等奖；
3. 2018中国（永安）石墨烯创新创业大赛优秀奖；

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