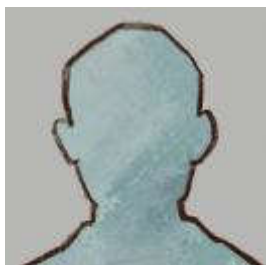


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教育和工作经历

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代表性文章或专著

50+ peer reviewed SCI papers, incl. 20+ papers in AM, JACS, AngewChemie, Nano Letters; Highly Cited Papers=4, Citation>2800, H-index=26, Edited 1 book published by Elsevier.

1. Chen Hou, Zijie Xu, Xiang Yang Liu*, Wenxi Guo*(通讯作者), A Biodegradable and Stretchable Protein-Based Sensor as Artificial Electronic Skin for Human Motion Detection, *Small*, 2019, 1805084-1805092
2. Zijie Xu, Xiang Yang Liu*, Wenxi Guo* (通讯作者), Controllable and Large-Scale Fabrication of Flexible ITO-free Electrochromic Devices by Crackle Pattern Technology, *Journal of Materials Chemistry A*, 2018, 6, 19584-19589,
3. Fayin Zhang, Xiang Yang Liu*, Wenxi Guo* (通讯作者), Highly Flexible and Scalable Photo-Rechargeable Power Unit Based on Symmetrical Nanotube Arrays, *Nano Energy* 46 (2018) 168–175
4. Wenxi Guo*(通讯作者), Zijie Xu, Fayin Zhang, Xiangyang Liu*. Recent Development of Transparent Conducting Oxide-Free Flexible Thin-Film Solar Cells. *Adv Funct Mater* 2016, 26, 8855-8884.
5. Guo, Wenxi, Zhang, Xiaojia, Wang, Zhong Lin* , Pan, Caofeng*, CoS NWs/Au Hybridized Networks as Efficient Counter-electrode for Flexible Sensitized Solar Cells, *Advanced Energy Materials*, 2015, 5, 1500141
6. Guo, Wenxi; Li, Xiaoyi; Lin, Changjian*; Pan, Caofeng*; Wang, Zhonglin*, Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. *Adv Funct Mater* 2014, 24, 6691-6699.
7. Guo, Wenxi; Xu, Chen; Wang, Xue; Wang, Sihong; Pan, Caofeng; Lin, Changjian*; Wang, Zhong Lin*, Rectangular Bunched Rutile TiO₂ Nanorod Arrays Grown on Carbon Fiber for Dye-Sensitized

Solar Cells, Journal of the American Chemical Society, 2012.3.7, 134 (9): 4437~4441 (SCI高引)

8. Guo, Wenxi; Xue, Xinyu; Wang, Sihong; Lin, Changjian; Wang, Zhong Lin*, An Integrated Power Pack of Dye-Sensitized Solar Cell and Li Battery Based on Double-Sided TiO₂ Nanotube Arrays, Nano Letters, 2012.5, 12(5): 2520~2523 (SCI高引)

9. Guo, Wenxi; Zhang, Fang; Lin, Changjian; Wang, Zhong Lin*, Direct Growth of TiO₂ Nanosheet Arrays on Carbon Fibers for Highly Efficient Photocatalytic Degradation of Methyl Orange, Advanced Materials, 2012.9.11, 24(35): 4761~4764

10. Guo, Wenxi; Xu, Chen; Lin, Changjian*; Wang, Zhong Lin*, Optical-fiber/TiO₂-Nanowire-arrays Hybrid Structures With Tubular Counterelectrode for Dye-sensitized Solar Cell. Nano Energy 2012, 1, 176-182

科研基金

1. 广东省自然科学基金博士启动，基于网状导电膜的柔性可折叠电致变色控温薄膜的研制，2016/01-2019/12，10万元，在研，项目负责人。

2. 国家自然科学基金青年项目，51502253，基于金属网状电极的可穿戴钙钛矿太阳能电池的制备及性能研究，2016/01-2018/12，24万元，在研，项目负责人。

3. 中央高校基本科研业务费专项资金，20720150030，新型纤维状可编织钙钛矿太阳能电池的制备与集成化研究，2015/03-2018/02,50万元，在研，项目负责人。

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任教课程

1. 大学物理
2. 大学物理实验
3. 软物质导论
4. 科学演讲技巧