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■ 学习工作经历

郭瑞琪，女，1993年出生，讲师。2016年在苏州大学获得学士学位，2021年于北京科技大学获得工学博士学位。2021年7月至今为苏州大学沙钢钢铁学院讲师，苏州大学材料科学与工程流动站博士后。先后在国内外核心期刊如 *Advanced Functional Materials*, *Chemical Engineering Journal*, *ACS Applied Materials & Interfaces*, *Advanced Optical Materials* 等期刊发表论文10余篇，其中SCI检索论文引用超过119次。申请国家发明专利1项。学术兼职包括：无。

■ 主要研究方向

1. 新能源材料
2. 量子点及其光电器件
3. 光电催化

■ 代表性论著

1. **Ruiqi Guo**, Jianjun Tian*, et al. Manganese Doped Environmental-friendly CuInSe₂ Colloidal Quantum Dots for Boosting Near-Infrared Photodetection Performance[J]. *Chemical Engineering Journal*, 2021, 403, 126452.
2. Aqiang Liu, Chenghao Bi, **Ruiqi Guo**, Jianjun Tian*, et al. Electroluminescence Principle and Performance Improvement of Metal Halide Perovskite Light-Emitting Diodes. *Advanced Optical Materials*, 2021, 2002167.
3. Jifeng Yuan, Chenghao Bi, Jiahao Xi, **Ruiqi Guo**, Jianjun Tian *. Gradient-Band Alignment Homojunction Perovskite Quantum Dot Solar Cells [J]. *Journal of Physical Chemistry Letters*, 2021, 12, 1018-1024.
4. **Ruiqi Guo**, Jianjun Tian*, et al. Double Active Layers Constructed with Halide Perovskite and Quantum Dots for Broadband Photodetection[J]. *Advanced Optical Materials*, 2020, 2000557.
5. **Ruiqi Guo**, Jianjun Tian*, et al. Exploiting Flexible Memristors Based on Solution-Processed Colloidal CuInSe₂ Nanocrystals[J]. *Advanced Electronic Materials*, 2020, 6(5): 2000035.
6. Fan Huang, Chenghao Bi, **Ruiqi Guo**, Jianjun Tian*, et al. Synthesis of colloidal blue-emitting InP/ZnS core/shell quantum dots with the assistance of copper cations[J]. *Journal of Physical Chemistry Letters*, 2019, 10(21): 6720-6726.

7. Jifeng Yuan, Chenghao Bi, Shixun Wang, **Ruiqi Guo**, Jianjun Tian*, et al. Spray-Coated Colloidal Perovskite Quantum Dot Films for Highly Efficient Solar Cells. *Advanced Functional Materials*, 2019, 1906615.
8. Kaixuan Song, Jideng Yuan, Ting Shen, Jiuyao Du, **Ruiqi Guo**, Jianjun Tian*, et al. Spray Coated Colloidal Quantum Dot Films for Broadband Photodetectors. *Nanomaterials*, 2019, 9, 1738.
9. **Ruiqi Guo**, Jianjun Tian*, et al. CuInSe₂ Quantum Dots Hybrid Hole Transfer Layer for Enhancement Performance of Perovskite Photodetectors[J]. *ACS applied materials & Interfaces*, 2018, 10(41): 35656-35663.
10. **Ruiqi Guo**, Jianjun Tian*, et al. Broadband hybrid organic /CuInSe₂ quantum dot photodetectors[J]. *Journal of Materials Chemistry C*, 2018, 6 (10): 2573-2579.
11. 田建军, 毕成浩, **郭瑞琪**.一种微波辅助加热合成 CsSnX₃ 钙钛矿量子点的方法, 2017。