


华南理工大学化学与化工学院老师简介

姓名	傅志勇	性别	男	出生年月	1973.10	籍贯	福建邵武	
职称	教授	民族	汉	最高学位	博士	党派	无	
招生专业	无机化学		研究方向	无机能源材料, 催化材料				
主要学习工作经历和主要学术兼职	<p>1995年7月 青岛海洋大学海洋化学专业毕业获理学学士学位</p> <p>2002年7月 中国科学院福建物质结构研究所研究生毕业获理学博士学位</p> <p>2002年7月至2003年9月 中国科学院福建物质结构研究所任助理研究员。</p> <p>2003年9月至2005年9月 获加拿大阿尔伯塔杰出人才基金 (Alberta Ingenuity Fund) 资助在University of Calgary 做博士后</p> <p>2012年9月 华南理工大学 教授/博导</p> <p>2013 教育部新世纪优秀人才支持计划</p> <p>学术兼职: 广东省电化学能源工程技术研究中心副主任, 广东省燃料电池技术重点实验室副主任</p>							
科学研究情况简介	<p>研究方向:</p> <ol style="list-style-type: none"> 1. 电池用无机关键材料的设计, 无机能源材料的制备及其在燃料电池的应用。 2. 无机光电功能新材料与器件的研究: 半导体纳米薄膜材料、钙钛矿太阳能电池制备与开发。 3. 光致电子迁移型变色材料与光催化材料的设计合成。 <p>课题组承担的课题:</p> <ol style="list-style-type: none"> 1. 国家自然科学基金, 光致电子迁移型配位框架功能新体系的构建和光化学特性探究, 2016/01-2019/12, 79 万 2. 国家自然科学基金, 二维层状钙钛矿型化合物的设计调控及其在太阳能电池中的应用基础研究, 2018/01-2020/12, 25 万。 3. 广东省自然科学基金团队项目, 基于风电弃电的氢储能与利用基础及关键技术研究, 2016/01-2020/12, 56 万。 4. 广州市科学研究计划, 高效稳定钙钛矿材料的制备及其太阳能电池应用研究, 2018/04-2021/03, 20 万。 5. 广州市科学研究计划, 电子迁移型光致变色杂化晶体材料的设计与合成技术研究, 2018/04-2021/03, 20 万。 6. 横向项目, 药芯焊丝化学成份及其焊接接头性能规律分析, 2017/01-2021/12, 20 万。 7. 国家自然科学基金, 金属配位基光色分子新体系的构建与相关物化性能表征, 2011/01-2011/12, 10 万元。 8. 国家自然科学基金, 新型氮代磷酸盐的合成及其在无机材料制备中的应用与研究, 2008/01-2010/12, 16 万元。 9. 中央高校重点项目, 新颖金属基光色转换晶体材料的制备与性能调控, 2012/01-2013/12, 20 万元。 10. 中央高校滚动项目, 电子迁移型光色材料的合成与表征, 2014/01-2015/12, 10 万元。 							

已发表 SCI 论文 82 篇，其中 1 区 16 篇，2 区 28 篇，综述 1 篇。近期代表论文：

1. Yifang Wang, Jie Zhang,* Shuhuang Chen, Haoyu Zhang, Ligui Li,* and **Zhiyong Fu,*** Surface passivation with nitrogen-doped carbon dots for improved perovskite solar cell performance, *Journal of materials science*, **2018**, doi.org/10.1007/s10853-018-2190-y.
2. Aidong Tan, Kai Wan, Yifang Wang, **Zhiyong Fu,*** Zhenxing Liang,* N, S-containing MOF-derived Dual-doped Mesoporous Carbon as a Highly Effective Oxygen Reduction Reaction Electrocatalyst, *Catalysis Science & Technology*, **2018**, 8, 335-343.
3. Aidong Tan, Yifang Wang, **Zhiyong Fu,*** Panagiotis Tsiakaras, Zhenxing Liang,* Highly Effective Oxygen Reduction Reaction Electrocatalysis: Nitrogen-doped Hierarchically Mesoporous Carbon Derived from Interpenetrated Nonporous Metal-organic Frameworks, *Applied Catalysis B-Environmental*, **2017**, 218, 260-266.
4. Shuzhi Hu, Jie Zhang, Shuhuang Chen, Jingcao Dai, **Zhiyong Fu,*** Efficient Ultraviolet Light Detector Based on a Crystalline Viologen-Based Metal-Organic Framework with Rapid Visible Color Change under Irradiation , *Acs Applied Materials & Interfaces*, **2017**, 9, 39926-39929.
5. Rui Zou, Jie Zhang, Shuzhi Hu, Fei Hu, Haoyu Zhang and **Zhiyong Fu,*** Reversible mechanochromic and thermochromic luminescence switching via hydrogen-bond directed assemblies in a zinc coordination complex, *CrystEngComm*, **2017**, 19, 6259–6262.
6. Shuzhi Hu, Lihua Lv, Shuhuang Chen, Maolin You, **Zhiyong Fu,*** Zn-MOF-Based Photoswitchable Dyad That Exhibits Photocontrolled Luminescence , *Crystal Growth & Design*, **2016**, 16, 6705-6708.
7. Shuzhi Hu, Maolin You, Shuhuang Chen and **Zhiyong Fu,*** A fast-response photochromic host–guest coordination polymer with a close-packed stacking structure, *CrystEngComm*, **2016**, 18, 7221-7224.
8. Hengjun Chen, Guiming Zheng, Min Li, Yifang Wang, Yang Song, Conghui Han, Jingcao Dai, **Zhiyong Fu,*** Photo- and Thermo-activated Electron Transfer System Based on a Luminescent Europium Organic Framework with Spectral Response from UV to Visible Range, *Chemical Communications*, **2014**, 50, 13544-13546.
9. Jie Zhang, Jianming Geng, Guiming Zheng, Jingcao Dai, **Zhiyong Fu,*** Highly Stable Photoresponsive Complex Framework Formation Involves Unusual Selective Hydrogenation of a Pyridine Derivative, *Chemical Communications*, **2014**, 50, 7326-7328.
10. Hengjun Chen, Min Li, Guiming Zheng, YiFang Wang, Yang Song, Conghui Han, **Zhiyong Fu,*** Shijun Liao, and Jingcao Dai, Molecular packing, crystal to crystal transformation, electron transfer behaviour, photochromic and fluorescent property of three hydrogen-bonded supramolecular complexes containing benzenecarboxylate donors and viologen acceptors, *RSC Advances*, **2014**, 4, 42983-42990.
11. Jie Zhang, Zhenguo Yao, Shijun Liao, Jingcao Dai, **Zhiyong Fu,*** A Hybrid Metal Phosphate-phosphite Material Grafted with Electron Deficient Organic Component Showing Interesting Fluorescent and Photosensitive Properties, *Journal of Materials Chemistry A*, **2013**, 1, 4945-4948.

12. Mengchan Fan, Zhenguo Yao, Chen Li, Yu Xia, Qi Zhang, Jingcao Dai, **Zhiyong Fu,*** A stimuli-responsive zinc-based chain framework constructed via metal-ligand directed assembly, *CrystEngComm*, **2013**, *15*, 8408-8411.
13. Yu Zeng, Shijun Liao, Jingcao Dai and **Zhiyong Fu,*** Fluorescent and photochromic bifunctional molecular switch based on a stable crystalline metal-viologen complex, *Chemical Communications*, **2012**, *48*, 11641-11643.
14. Yu Zeng, **Zhiyong Fu,*** Hengjun Chen, Changchun Liu, Shijun Liao and Jingcao Dai, Photo- and thermally induced coloration of a crystalline MOF accompanying electron transfer and long-lived charge separation in a stable host-guest system, *Chemical Communications*, **2012**, *48*, 8114-8116.
15. **Zhiyong Fu,*** Yu Zeng, Xiaoling Liu, Desheng Song, Shijun Liao and Jingcao Dai, Copper based metal-organic molecular ring with inserted Keggin-type polyoxometalate: a stable photofunctional host-guest molecular system, *Chemical Communications*, **2012**, *48*, 6154-6156.
16. Yi Tan, **Zhiyong Fu,*** Yu Zeng, Hengjun Chen, Shijun Liao, Jie Zhang and Jingcao Dai, Highly stable photochromic crystalline material based on a close-packed layered metal-viologen coordination polymer, *Journal of Materials Chemistry*, **2012**, *22*, 17452-17455.
17. **Zhiyong Fu,*** Desheng Song, Yu Zeng, Shijun Liao and Jingcao Dai, A layered zinc phosphate decorated with organic fluorophores for selective luminescent sensing of metal cations, *Dalton Transactions*, **2012**, *41*, 10910-10912.
18. Yi Tan, Hengjun Chen, Jie Zhang, Shijun Liao, Jingcao Dai and **Zhiyong Fu,*** Synthesis of a 3D photochromic coordination polymer with an interpenetrating arrangement: crystal engineering for electron transfer between donor and acceptor units, *CrystEngComm*, **2012**, *14*, 5137-5139.
19. **Zhiyong Fu,*** Yuan Chen, Jie Zhang and Shijun Liao, Correlation between photoactive character and the structures of two novel metal organic frameworks, *Journal of Materials Chemistry*, **2011**, *21*, 7895-7897.
20. **Zhiyong Fu,*** Jie Zhang, Yu Zeng, Yi Tan, Shijun Liao, Hengjun Chen, Jingcao Dai, Synthesis and structure of a mixed crystal containing tris(4-pyridiniumyl)-1,3,5-triazine and benzenetetracarboxylate ions: constructing new photochromic molecular system via self-assembly, *CrystEngComm*, **2012**, *14*, 786-788.

教学情况简介

现代化学功能材料研讨课, 大学化学

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