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1996.9~2000.7 燕山大学材料学院, 获材料学专业学士学位
2000.9~2003.7 华侨大学材料学院, 获材料学专业硕士学位
2003.9~2006.6 中国科学院福建物质结构研究所, 获物理化学专业博士学位
2011.10~2013.3 日本九州大学先导物质化学研究所, 博士后
2006.6至今 华侨大学材料学院, 教师

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目前主要研究兴趣

超级电容器, 锂离子电池及锂离子混合电容器

近期承担及参与的项目

- (1) 国家自然科学基金青年项目 (No. 21301060, 2014.1-2016.12), 负责人
- (2) 福建省自然科学基金面上项目 (No. 2017J01084, 2017.4-2020.4), 负责人
- (3) 福建省科技平台建设项目 (No. 2017H2001, 2017-2021), 子项目负责人
- (4) 教育部留学回国人员科研启动基金 (2015.6-2018.5), 负责人
- (5) 结构化学国家重点实验室开放基金 (No. 20150002, 2015.1-2017.12), 负责人
- (6) 福建省高等学校新世纪优秀人才支持计划项目 (No. 2014FJ-NCET-ZR02, 2014.6-2017.6), 负责人
- (7) 华侨大学中青年教师资助计划项目 (No. ZQN-PY106, 2013.10-2017.10), 负责人
- (8) 教育部科学技术研究重点项目 (No. 211204, 2011.1-2013.12), 负责人
- (9) 国务院侨办项目 (No. 10QZR12, 2010.12-2012.11), 负责人
- (10) 福建省纳米材料重点实验室开放基金项目 (No. NM10-05, 2010.1-2012.12), 负责人
- (11) 福建省青年科技人才创新项目 (No. 2007F3060, 2007.7-2010.6), 负责人
- (12) 华侨大学人才引进启动基金项目 (No. 06BS216, 2006.10-2008.10), 负责人
- (13) 国家自然科学基金项目 (No. 51972123, 2020.1-2023.12), 参与
- (14) 国家自然科学基金项目 (No. 51472094, 2015.1-2018.12), 参与
- (15) 国家863计划项目 (No. 2009AA03Z217, 2009.5-2011.12), 参与
- (16) 国家自然科学基金项目 (No. 50842027, 2009.1-2009.12), 参与

获奖与荣誉

2012-2014学年华侨大学优秀教师
2013年华侨大学中青年教师资助计划培育型人才
2014年福建省高等学校新世纪优秀人才支持计划
2014年厦门市重点人才
2019年福建省自然科学奖三等奖(排名第二)

学术兼职

中国复合材料学会青年工作委员会委员

近期发表主要论文

1. **Le-Qing Fan***, Qiu-Mei Tu, Cheng-Long Geng, Jian-Ling Huang, Yun Gu, Jian-Ming Lin, Yun-Fang Huang, Ji-Huai Wu, High energy density and low self-discharge of a quasi-solid-state supercapacitor with carbon nanotubes incorporated redox-active ionic liquid-based gel polymer electrolyte, *Electrochim. Acta*, 2020, 331, 135425.

2. **Le-Qing Fan***, Qiu-Mei Tu, Cheng-Long Geng, Yong-Lan Wang, Si-Jia Sun, Yun-Fang Huang, Ji-Huai Wu, Improved redox-active ionic liquid-based ionogel electrolyte by introducing carbon nanotubes for application in all-solid-state supercapacitors, *Int. J. Hydrogen Energy*, 2020, 45, 17131-17139.
3. **Le-Qing Fan***, Jian-Ling Huang, Yong-Lan Wang, Cheng-Long Geng, Si-Jia Sun, Yun-Fang Huang, Ji-Huai Wu, High-capacity MnCo₂O₄ supported by reduced graphene oxide as an anode for lithium-ion capacitors, *J. Energy Storage*, 2020, 30, 101427.
4. Yun Gu, **Le-Qing Fan***, Jian-Ling Huang, Cheng-Long Geng, Jian-Ming Lin, Miao-Liang Huang, Yun-Fang Huang, Ji-Huai Wu, N-doped reduced graphene oxide decorated NiSe₂ nanoparticles for high-performance asymmetric supercapacitors, *J. Power Sources*, 2019, 425, 60-68.
5. Jian-Ling Huang, **Le-Qing Fan***, Yun Gu, Cheng-Long Geng, Hui Luo, Yun-Fang Huang, Jian-Ming Lin, Ji-Huai Wu, One-step solvothermal synthesis of high-capacity Fe₃O₄/reduced graphene oxide composite for use in Li-ion capacitor, *J. Alloys Compd.*, 2019, 788, 1119-1126.
6. Cheng-Long Geng, **Le-Qing Fan***, Chun-Yan Wang, Yong-Lan Wang, Si-Jia Sun, Ze-Yu Song, Na Liu, Ji-Huai Wu, High energy density and high working voltage of a quasi-solid-state supercapacitor with a redox-active ionic liquid added gel polymer electrolyte, *New J. Chem.*, 2019, 43, 18935-18942.
7. Bei-Rong Ye, Miao-Liang Huang*, **Le-Qing Fan**, Jian-Ming Lin, Ji-Huai Wu, Co ions doped NiTe electrode material for asymmetric supercapacitor application, *J. Alloys Compd.*, 2019, 776, 993-1001.
8. Qiu-Mei Tu, **Le-Qing Fan***, Fei Pan, Jian-Ling Huang, Yun Gu, Jian-Ming Lin, Miao-Liang Huang, Yun-Fang Huang, Ji-Huai Wu, Design of a novel redox-active gel polymer electrolyte with a dual-role ionic liquid for flexible supercapacitors, *Electrochim. Acta*, 2018, 268, 562-568.
9. **Le-Qing Fan***, Fei Pan, Qiu-Mei Tu, Yun Gu, Jian-Ling Huang, Yun-Fang Huang, Ji-Huai Wu, Synthesis of CuCo₂S₄ nanosheet arrays on Ni foam as binder-free electrode for asymmetric supercapacitor, *Int. J. Hydrogen Energy*, 2018, 43, 23372-23381.
10. Yun Gu, **Le-Qing Fan***, Jian-Ling Huang, Cheng-Long Geng, Jian-Ming Lin, Miao-Liang Huang, Yun-Fang Huang, Ji-Huai Wu, Hydrothermal Synthesis of Co-Doped NiSe₂ Nanowire for High-Performance Asymmetric Supercapacitors, *Materials*, 2018, 11, 1468.
11. **Le-Qing Fan***, Xin Jin, Dong-Xu Li, Chong-Bin Tian, Ji-Huai Wu, [Pb₃Cu₂I₁₀(phen)₄]_n: a novel organic-inorganic hybrid ferromagnetic semiconductor, *Dalton Trans.*, 2017, 46, 14738-14741.
12. **Le-Qing Fan***, Ji Zhong, Can-Yang Zhang, Ji-Huai Wu, Yue-Lin Wei, Improving the energy density of quasi-solid-state supercapacitors by assembling two redox-active gel electrolytes, *Int. J. Hydrogen Energy*, 2016, 41, 5725-5732.
13. Pei Zhou, **Le-Qing Fan**, Ji-Huai Wu*, Chao Gong, Jin-Fang Zhang, Yong-Guang Tu, Facile hydrothermal synthesis of NiTe and its application as positive electrode material for asymmetric supercapacitor, *J. Alloy Compd*, 2016, 685, 384-390.
14. Ji Zhong, **Le-Qing Fan***, Xing Wu, Ji-Huai Wu, Gui-Jing Liu, Jian-Ming Lin, Miao-Liang Huang, Yue-Lin Wei, Improved energy density of quasi-solid-state supercapacitors using sandwich-type redox-active gel polymer electrolytes, *Electrochim. Acta*, 2015, 166, 150-156.
15. **Le-Qing Fan***, Gui-Jing Liu, Can-Yang Zhang, Ji-Huai Wu, Yue-Lin Wei, Facile one-step hydrothermal preparation of molybdenum disulfide/carbon composite for use in supercapacitor, *Int. J. Hydrogen Energy*, 2015, 40, 10150-10157.
16. **Le-Qing Fan***, Ji-Huai Wu, Novel lead iodine dialkyldithiocarbamates with different dimensions: [PbI(S₂CNR₂)]_n (R₂ = Me₂, (CH₂)₄, and (CH₂)₅), *Inorg. Chem. Commun.*, 2015, 57, 72-74.
17. **Le-Qing Fan***, Ji Zhong, Ji-Huai Wu, Jian-Ming Lin, Yun-Fang Huang, Improving energy density of quasi-solid-state electric double layer capacitor by introducing redox additives into gel polymer electrolyte, *J. Mater. Chem. A*, 2014, 2, 9011-9014.
18. **Le-Qing Fan***, Gui-Jing Liu, Ji-Huai Wu, Lu Liu, Jian-Ming Lin, Yue-Lin Wei, Asymmetric supercapacitor based on graphene oxide/polypyrrole composite and activated carbon electrodes, *Electrochim. Acta*, 2014, 137, 26-33.
19. **Le-Qing Fan**, Yue-Lin Wei, Ying-Han Cheng, Yun-Fang Huang, San-Cun Hao, Ji-Huai Wu*, Preparation and photocatalytic properties of HLaNb₂O₇/(Pt, TiO₂) perovskite intercalated nanomaterial, *Int. J. Hydrogen Energy*, 2014, 39, 7747-7752.
20. **Le-Qing Fan***, Gui-Jing Liu, Jun-Chang Zhao, Ji-Huai Wu, Ji Zhong, Jian-Ming Lin, Jing-Hao Huo, Lu Liu, Facile one-step hydrothermal syntheses and supercapacitive performances of reduced graphene oxide/MnO₂ composites, *Compos. Sci. Technol.*, 2014, 103, 113-118.
21. Hai-Jun Yu, Ji-Huai Wu*, **Le-Qing Fan**, San-Cun Hao, Jian-Ming Lin, Miao-Liang Huang, An efficient redox-mediated organic electrolyte for high-energy supercapacitor, *J. Power Sources*, 2014, 248, 1123-1126.
22. **Le-Qing Fan***, Yuan Chen, Ji-Huai Wu, Zhao-Lei Li, Yao-Ming Xiao, Miao-Liang Huang, Hai-Jun Yu, Efficiency improvement of flexible dye-sensitized solar cells by introducing mesoporous TiO₂ microsphere, *Sci. China Chem.*, 2013, 56, 1470-1477.
23. Gui-Jing Liu, **Le-Qing Fan***, Fu-Da Yu, Ji-Huai Wu, Lu Liu, Zhao-Yuan Qiu, Qin Liu, Facile one-step hydrothermal synthesis of reduced grapheneoxide/Co₃O₄ composites for supercapacitors, *J. Mater. Sci.*, 2013, 48, 8463-8470.

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25. Ji-Huai Wu*, Hai-Jun Yu, **Le-Qing Fan**, Geng-Geng Luo, Jian-Ming Lin, Miao-Liang Huang, A simple and high-effective electrolyte mediated with p-phenylenediamine for supercapacitor, *J. Mater. Chem.*, 2012, 22, 19025–19030.
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27. Hai-Jun Yu, Ji-Huai Wu*, **Le-Qing Fan**, You-Zhen Lin, Kai-Qing Xu, Zi-Ying Tang, Cun-Xi Cheng, Shen Tang, Jian-Ming Lin, Miao-Liang Huang, Zhang Lan, Using eggshell membrane as a separator in supercapacitor, *J. Power Sources*, 2012, 206, 463–468.
28. **Le-Qing Fan***, Ji-Huai Wu, Yun-Fang Huang, Syntheses, crystal structures and properties of two unusual pillared-layer 3d–4fLn–Cu heterometallic coordination polymers, *J Solid State Chem.*, 2011, 184, 2472–2477.
29. **Le-Qing Fan***, Yuan Chen, Ji-Huai Wu, Yun-Fang Huang, Synthesis, crystal structures and luminescent properties of two 4d–4fLn–Ag heterometallic coordination polymers based on anion template, *J Solid State Chem.*, 2011, 184, 899–904.
30. **Le-Qing Fan***, Ji-Huai Wu, Yun-Fang Huang, An unusual 3D 3d–4f heterometallic coordination polymer based on the linkages of $\text{Sm}_2(\text{IN})_6$ pillars and 2D $[\text{Cu}_7\text{Br}_6]_n^{n+}$ layers: Crystal structure and luminescent property, *Inorg. Chem. Commun.*, 2011, 14, 1906–1910.
31. Hai-Jun Yu, Ji-Huai Wu*, **Le-Qing Fan**, Kai-Qing Xu, Xin Zhong, You-Zhen Lin, Jian-Ming Lin, Improvement of the performance for quasi-solid-state supercapacitor by using PVA-KOH-KI polymer gel electrolyte, *Electrochim. Acta*, 2011, 6881–6886.

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