

[学院首页](#)[学院概况](#)[师资队伍](#)[科学研究](#)[人才培养](#)[党团工作](#)[人才招聘](#)[常用下载](#)

2019年12月23日 星期一 17:28:49

## 贺本林

发布时间: 2018-04-01 [ 阅读: 3232 次 | 添加: 张蔚圣 ]



**个人信息:** 女, 博士, 副教授, 硕士生导师

**联系方式:** blhe@ouc.edu.cn

### 教育与工作经历:

2007.7---至今中国海洋大学材料科学与工程学院讲师、副教授

2002.9---2007.6 兰州大学化学化工学院理学博士

1998.9---2002.6 河南大学化学化工学院工学学士

### 研究方向:

- 钙钛矿太阳能电池
- 新型太阳能电池

### 科研项目:

主持及参与包括国家自然科学基金等在内项目15项。代表性项目如下:

- 2017-2019 国家自然科学基金, 主持。
- 2015-2017 山东省自然科学基金(面上), 主持。
- 2013-2015 青岛市科技计划应用基础研究项目, 主持。
- 2011-2014 山东省自然科学基金(青年), 主持。
- 2011-2014 中央高校基本科研业务费青年教师科研专项基金项目, 主持。

### 科技奖励:

1. 2017年教育部高等学校科学研究优秀成果奖自然科学奖, 二等奖, 2/6。
2. 2017年山东省高等学校科学技术奖, 叁等奖, 2/5。
3. 2016年度青岛市科学技术自然科学奖, 二等奖, 2/3。
4. 2015年山东高等学校优秀科研成果奖, 一等奖, 3/5。
5. 2014年山东高等学校优秀科研成果奖, 二等奖, 2/5。

### 学术成果:

长期从事钙钛矿太阳能电池和染料敏化太阳能电池的研究工作, 已在 *J. Mater. Chem. A*, *ACS Appl. Mater. Interfaces*, *Angew. Chem. Int. Ed.*, *J. Power Sources* 等国际知名期刊上发表SCI收录学术论文150余篇, 论文被引用3600余次, h-index为34。长期担任 *Nano Energy*, *Nanoscale*, *J. Power Sources*, *Electrochim. Acta* 等国际知名期刊审稿人, 授权国家发明专利7项。

### 代表性学术论文:

1. Xin Zhang, **Benlin He\***, Yuanyuan Zhao, Qunwei Tang\*, A porous ceramic membrane tailored high-temperature supercapacitor, *Journal of Power Sources*, 2018, 379, 60-67.
2. Yuanyuan Meng, Yue Zhang, Weiyin Sun, Min Wang, **Benlin He\***, Haiyan Chen, Qunwei Tang\*, Biomass converted carbon quantum dots for all-weather solar cells, *Electrochimica Acta*, 2017, 257, 259-266.
3. **Benlin He\***, Xin Zhang, Hongna Zhang, Jinyu Li, Qi Meng, Qunwei Tang\*, Transparent molybdenum sulfide decorated polyaniline complex counter electrodes for efficient bifacial dye-sensitized solar cells, *Solar Energy*, 2017, 147, 470-478.
4. Mingming Ma, Qunwei Tang\*, Peizhi Yang and **Benlin He\***, Room-temperature fabrication of multideformable perovskite solar cells made in a three-dimensional gel framework, *RSC Advances*, 2016, 6, 82933-82940.
5. **Benlin He**, Qunwei Tang\*, Huihui Zhang, Liangmin Yu\*, Counter electrode electrocatalysts from binary Pd-Co alloy nanoparticles for dye-sensitized solar cells, *Solar Energy*, 2016, 124, 68-75.
6. Hongna Zhang, **Benlin He\***, Qunwei Tang\*, Enhanced light harvesting of  $\text{TiO}_2/\text{La}_{0.95}\text{Tb}_{0.05}\text{PO}_4$  photoanodes for dye-sensitized solar cells, *Materials Chemistry and Physics*, 2016, 173, 340-346.
7. **Benlin He**, Qunwei Tang\*, Liangmin Yu\*, Peizhi Yang, Cost effective alloy counter electrodes as a new avenue for high efficiency dyesensitized solar cells, *Electrochimica Acta*, 2015, 158, 397-402.
8. Huihui Zhang, **Benlin He\***, Qunwei Tang\*, and Liangmin Yu\*, Bifacial Dye-Sensitized Solar Cells from Covalent-Bonded Polyaniline-Multiwalled Carbon Nanotube Complex Counter Electrodes, *Journal of Power Sources*, 2015, 275, 489-497.
9. Yanyan Duan, Qunwei Tang\*, Yuran Chen, Zhiyuan Zhao, Yang Lv, Mengjin Hou, Peizhi Yang, **Benlin He\***, and Liangmin Yu\*, Solid-State Dye-Sensitized Solar Cells from Poly(Ethylene Oxide)/Polyaniline Electrolytes with Catalytic and Hole-Transporting Characteristics, *Journal of Materials Chemistry A*, 2015, 3, 5368-5374.
10. Yanyan Duan, Qunwei Tang\*, Ru Li, **Benlin He\***, and Liangmin Yu\*, An Avenue of Sealing Liquid Electrolyte in Flexible Dye-Sensitized Solar Cells, *Journal of Power Sources*, 2015, 274, 304-309.
11. Chunqing Ma, Qunwei Tang\*, Zhiyuan Zhao, Mengjin Hou, Yuran Chen, **Benlin He\***, Liangmin Yu\*, Bifacial quantum dot-sensitized solar cells with transparent cobalt selenide counter electrodes, *Journal of Power Sources*, 2015, 278, 183-189.
12. Jialong Duan, Qunwei Tang\*, Ru Li, **Benlin He\***, Liangmin Yu\*, Peizhi Yang, Multifunctional graphene incorporated polyacrylamide conducting gel electrolytes for efficient quasi-solid-state quantum dot-sensitized solar cells, *Journal of Power Sources*, 2015, 284, 369-376.
13. Yanyan Duan, Yuran Chen, Qunwei Tang\*, Zhiyuan Zhao, Mengjin Hou, Ru Li, **Benlin He\***, Liangmin Yu\*, Peizhi Yang, and Zhiming Zhang, A Dye-Sensitized Solar Cell Having Polyaniline Species in Each Component with 3.1%-Efficiency, *Journal of Power Sources*, 2015, 284, 178-185.
14. **Benlin He**, Qunwei Tang\*, Tianlun Liang, Qinghua Li, Efficient dye-sensitized solar cells from polyaniline-single wall carbon nanotube complex counter electrodes, *Journal of Materials Chemistry A*, 2014, 2, 3119-3126.
15. **Benlin He**, Xin Meng, Qunwei Tang\*, Low-Cost Counter Electrodes From CoPt Alloys For Efficient Dye-Sensitized Solar Cells, *ACS Applied Materials & Interfaces*, 2014, 6, 4812-4818.
16. **Benlin He**, Qunwei Tang\*, Min Wang, Haiyan Chen, Shuangshuang Yuan, Robust polyaniline-graphene complex counter electrodes for efficient dye-sensitized solar cells, *ACS Applied Materials & Interfaces*, 2014, 6, 8230-8236.
17. **Benlin He**, Xin Meng, Qunwei Tang, Pinjiang Li, Shuangshuang Yuan, Peizhi Yang, Low-cost CoPt alloy counter electrodes for efficient dye-sensitized solar cells, *Journal of Power Sources*, 2014, 260, 180-185.
18. **Benlin He**, Qunwei Tang\*, Jinghuan Luo, Qinghua Li, Xiaoxu Chen, Hongyuan Cai, Rapid charge-transfer in polypyrrole-single wall carbon nanotube complex counter electrodes: Improved photovoltaic performances of dye-sensitized solar cells, *Journal of Power Sources*, 2014, 256, 170-177.
19. **Benlin He**, Qunwei Tang\*, Min Wang, Chunqing Ma, Shangshuang Yuan, Complexation of polyaniline and graphene for efficient counter electrodes in dye-sensitized solar cells: Enhanced charge transfer ability, *Journal of Power Sources*, 2014, 256, 8-13.
20. **Benlin He**, Qunwei Tang\*, Xin Meng, Liangmin Yu, Poly(vinylidene fluoride)-implanted cobalt-platinum alloy counter electrodes for dye-sensitized solar cells, *Electrochimica Acta*, 2014, 147, 209-215.

欢迎有事业心、团队合作精神，对探索自然奥秘怀有好奇心和浓厚兴趣、具有材料/化学等背景的同学报考我们的研究生！

学院通讯地址：青岛市崂山区松岭路238号中国海洋大学材料科学与工程研究院 邮编266100 电话：0532-66781690

Copyright © 2004-2008 Ocean University of China. All rights reserved.