

个人简历-胡宏龙



教育及工作经历

博士后	2022年7月-至今	华东理工大学
合作导师：田禾 院士		
博士	2017年9月- 2022年6月	华东理工大学
导师：朱为宏 院士、郑致刚 教授		
学士	2013年9月- 2017年6月	华东理工大学

研究方向

- 光响应新型双稳态光学功能材料设计
- 多自由度光控液晶微结构及性能研究
- 光响应液晶功能器件开发（光学防伪、激光）

学术论文 (#共同第一作者; *共同通讯作者)

代表性论文

- Honglong Hu**, Min He, Xinshi Liang, Mengqi Li, Conglong Yuan, Binghui Liu, Xuan Liu, Zhi-Gang Zheng*, Wei-Hong Zhu*
Multiple degrees of freedom photoprogramming of soft helical microstructures featuring copper-gated photoswitch. *Matter*, **2023**, 6, 3927-3939.
- Xuan Liu, Conglong Yuan, Peizhi Sun, Zesheng Na, **Honglong Hu***, Zhi-Gang Zheng*
Programming Dual-Color Circularly Polarized Luminescence with Self-Organized Soft Photonic Helix. *Laser & Photonics Reviews*, **2023**, 18, 2300603.
- Xinshi Liang, **Honglong Hu***, Zhi-gang Zheng, Min He, Mengqi Li, Ning Lv, Ning Shen, Wei-Hong Zhu*
Quadri-dimensional anti-counterfeiting flexible label programmed by a photoresponsive liquid crystal polymer film. *Industrial & Engineering Chemistry Research*, **2023**, 62, 9961-9969.

4. Zhigang Zheng[#], **Honglong Hu**[#], Zhipeng Zhang[#], Binghui Liu, Mengqi Li, Da-Hui Qu, He Tian, Wei-Hong Zhu^{*}, Ben L. Feringa^{*}
Digital photoprogramming of liquid-crystal superstructures featuring intrinsic chiral photoswitches. ***Nature Photonics***, **2022**, 16, 226-234.
5. **Honglong Hu**, Binghui Liu, Mengqi Li, Zhigang Zheng^{*}, Wei-Hong Zhu^{*}
A Quadri-Dimensional Manipulable Laser with an Intrinsic Chiral Photoswitch.
Advanced Materials, **2022**, 34, 2110170.
6. Mengqi Li[#], **Honglong Hu**[#], Binghui Liu, Xuan Liu, Zhi-Gang Zheng^{*}, He Tian, Wei-Hong Zhu^{*}
Light-Reconfiguring Inhomogeneous Soft Helical Pitch with Fatigue Resistance and Reversibility. ***Journal of the American Chemical Society***, **2022**, 144, 20773-20784.
7. Binghui Liu[#], Cong-Long Yuan[#], **Honglong Hu**[#], Hao Wang, Yu-Wen Zhu, Pei-Zhi Sun, Zhi-Ying Li, Zhi-Gang Zheng^{*} and Quan Li^{*}
Dynamically actuated soft heliconical architecture via frequency of electric fields.
Nature Communications, **2022**, 13, 2712.

其他论文

1. Yifei Wang, Cong-Long Yuan, Wenbin Huang, Pei-Zhi Sun, Binghui Liu, **Honglong Hu**, Zhigang Zheng^{*}, Yan-Qing Lu^{*}, Quan Li^{*}
Programmable Jigsaw Puzzles of Soft Materials Enabled by Pixelated Holographic Surface Reliefs. ***Advanced Materials***, **2023**, 35, 2211521.
2. Huanxin Guo, Xiaoyu Wang, Chengjie Li, **Honglong Hu**, Huidong Zhang, Lijun Zhang, Wei-Hong Zhu, and Yongzhen Wu^{*}
Immobilizing Surface Halide in Perovskite Solar Cells via Calix[4]pyrrole.
Advanced Materials, **2023**, 35, 2301871.
3. Conglong Yuan, Jiajun Chen, Binghui Liu, Peizhi Sun, **Honglong Hu**, Yuqi Tang, Yifei Wang, Yuxing Zhan, Mengqi Li, Zhi-Gang Zheng^{*} and Quan Li^{*}
Hyper-stable field-stimulated soft cholesteric heliconical architectures.
Matter, **2023**, 6, 3555-3573.
4. Huanxin Guo, Cong Liu, **Honglong Hu**, Shuo Zhang, Xiaoyu Ji, Xiao-Ming Cao, Zhijun Ning, Wei-Hong Zhu, HeTian, Yongzhen Wu^{*}
Neglected acidity pitfall: boric acid-anchoring hole-selective contact for perovskite solar cells.
National Science Review, **2023**, 10, nwad057.

5. Jiahong Yu, Zhiyu Sun, Huili Ma, Chengyun Wang, Wenbing Huang, Zikai He, Wenjun Wu, **Honglong Hu**, Weijun Zhao*, Wei-Hong Zhu*
Efficient Visible-Light-Activated Ultra-Long Room-Temperature Phosphorescence Triggered by Multi-Esterification. ***Angewandte Chemie International Edition***, **2023**, 62, e202316647.
6. Yue Wu*, Yiran Ren, Xiaoxuan Zeng, **Honglong Hu**, Mengqi Li, Junzi Li, Tingchao He, Xin-Shun Li, Zhen-Qiang Yu*, Wei-Hong Zhu*
Enhancing tetraphenylethene cyclization as photoswitch.
Smart Molecules, **2023**, 1, e20230003.
7. Shaomeng Guo#, Mengqi Li#, **Honglong Hu**, Ting Xu, Hancheng Xi, Wei-Hong Zhu*
Light-regulating chirality of metallocages featuring dithienylethene switches.
Chemical Science, **2023**, 14, 6237.
8. Yifei Wang, Binghui Liu, Pei-Zhi Sun, **Honglong Hu**, Cong-Long Yuan, Mengting Huang, Zhigang Zheng*
Optical Steganography via Programmable Anchoring Boundary of Soft Materials.
Advanced Optical Materials, **2023**, 11, 2202971.
9. Mengting Huang, Yifei Wang, Xuan Liu, Songyu Zhang, Cong-Long Yuan, **Honglong Hu**, Zhi-Gang Zheng*
Dynamically Tunable Structural Colors Enabled by Pixelated Programming of Soft Materials on Thickness. ***Advanced Optical Materials***, **2023**, 11, 2300573.

专利

1. 朱为宏, 郑致刚, 李卉君, **胡宏龙**, 多稳态、反射色连续可控的双重可擦式防伪技术及其在光信息编码领域的应用。
专利号: ZL202010425456.8, 授权公告号: CN111423868B.
2. 朱为宏, 郑致刚, **胡宏龙**, 李卉君, 一种可逆、可变色、多稳态防伪耦合层片。
专利号: ZL202121340813.7, 授权公告号: CN215068925U.
3. Weihong Zhu, Zhigang Zheng, Huijun Li, **Honglong Hu**, Multistable dual-erasable anti-counterfeiting technology with continuously controllable reflection color, and use thereof in field of optical information coding.
专利号: PCT/CN2020/120431, 申请公布号: WO2021/232660(A1).

4. 朱为宏, 郑致刚, **胡宏龙**, 刘炳辉, 李萌祺, 李卉君, 高热稳定性强抗疲劳度窄半宽多稳态的光可调谐激光材料。
专利号: CN202110504568.7, 申请公布号: CN113238411A.
5. 朱为宏, 郭绍萌, 甘家安, 李萌祺, **胡宏龙**, 徐婷, 吕宁, 王响利, 一种光控内源手性二芳基乙烯超分子笼及其制备方法。
专利号: CN202310681064.1, 申请公布号: CN116903639A.
6. 吴永真, 刘帅君, 余福蓉, 刘璇, **胡宏龙**, 袁丛龙, 郑致刚, 朱为宏, 宽波段圆偏振光探测器及其制备方法。
专利号: CN202311295750.1, 申请公布号: CN117580379A.

主持项目

1. 2023年 **博士后创新人才支持计划 (博新计划)**
2. 2023年 **国家自然科学基金青年科学基金项目**
3. 2023年 上海市青年科技英才扬帆计划
4. 2022年 上海市“超级博士后”激励计划
5. 2022年 中国博士后科学基金会第72批面上资助

荣誉奖项

1. 2022年 **中国光学十大进展 (应用研究类)**
2. 2021年 华东理工大学成思危名誉校长奖学金特等奖
3. 2021年 甘田-欧迪斯奖学金