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教育/工作经历

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|---------------------|--------|-----------|--------------|------|
| ◆ 2009.09 - 2013.06 | 华东师范大学 | 物理系 | 物理学(国家理科基地班) | 理学学士 |
| ◆ 2013.09 - 2020.12 | 华南师范大学 | 信息光电子科技学院 | 光学 | 理学博士 |
| ◆ 2021.03 - 2021.05 | 浙江农林大学 | 光机电工程学院 | 讲师 | 光学工程 |
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主持的科研项目

- 国家自然科学基金青年项目，非局域非线性介质中的矢量涡旋混沌子的状态切换和行为转换 (12404350)，2025.01 - 2027.12，在研中
- 浙江省自然科学基金青年项目，非局域非线性材料中的混合阶庞加莱孤子和呼吸子的传输特性研究 (LQ23F050003)，2023.03 - 2026.02，已结题
- 浙江农林大学科研发展基金项目，矢量奇点孤子在热致非局域介质中的传播特性研究 (2021LFR014)，2021.06 - 2024.05，已结题



代表性论文：

- Guo Liang*, **Huicong Zhang***, Lei Fang, Qian Shou, Wei Hu, Qi Guo#. Influence of transverse cross-phases on propagations of optical beams in linear and nonlinear regimes. *Laser & Photonics Reviews*, 14(12), 2000141 (2020). (中科院一区 Top)
- Junjie Li, **Huicong Zhang**#. Propagation dynamics of hybrid-order Poincaré beams in thermal nonlocal media. *Chaos, Solitons & Fractals*, 171, 113444 (2023). (中科院一区 Top)
- Junjie Li, **Huicong Zhang**#. Stability and adaptive evolution of higher-order vector vortex solitons in thermally nonlinear media with tunable transverse size. *Chaos, Solitons & Fractals*, 177: 114195 (2023). (中科院一区 Top)
- Junjie Li, **Huicong Zhang**#. Interaction-produced vector vortex chaoticons in nonlocal nonlinear media. *Chaos, Solitons & Fractals*, 182: 114829 (2024). (中科院一区 Top)
- Zhixuan Wang, Junjie Li, Xiaoying Fu, Yuan Zhao#, **Huicong Zhang**#. Chaotic self-trapped vortex beams driven by boundary modulation of thermally nonlocal nonlinear media. *Chaos, Solitons & Fractals*, 199: 116698 (2025). (中科院一区 Top)
- Huicong Zhang**#, Mingxu Yang, Zhixuan Wang. Existence and stability of vector vortex solitons in nematic liquid crystals. *Chaos, Solitons & Fractals*, 206: 117946 (2026). (中科院一区 Top)
- Zhixuan Wang*, **Huicong Zhang***#, Tianle Dai, Xiaoying Fu, Zhongwei Zhang. Collisions between chirped vector vortex solitons in nonlocal nonlinear media. *Chaos, Solitons & Fractals*, 208: 118103 (2026). (中科院一区 Top)
- Huicong Zhang**, Manna Chen, Ling Yang, Bo Tian, Chengjie Chen, Qi Guo, Qian Shou#, Wei Hu#. Higher-charge vortex solitons and vector vortex solitons in strongly nonlocal media. *Optics Letters*, 44(12), 3098-3101 (2019). (中科院二区)
- Huicong Zhang**#, Tao Zhou, Qian Shou, Qi Guo#. Optical elliptic breathers in isotropic nonlocal nonlinear media. *Optics Express*, 30(6), 9336-9347 (2022). (中科院二区)
- Huicong Zhang**, Zhiwei Weng, Qian Shou, Qi Guo, Wei Hu#. Instability suppression of vector vortex solitons in nonlocal nonlinear

media. *Physical Review A*, 101(3), 033842 (2020). (中科院二区)

11. **Huicong Zhang**[#], Tao Zhou, Chaoqing Dai[#]. Stabilization of higher-order vortex solitons by means of nonlocal nonlinearity. *Physical Review A*, 105(1), 013520 (2022). (中科院二区)

12. Junjie Li^{*}, **Huicong Zhang**^{*, #}, Zhixuan Wang, Lu Wan. Chaotic self-trapped vortex beams induced by initial spatial chirps in nonlocal nonlinear media. *Physical Review A*, 111, 053513 (2025). (中科院二区)

13. Lu Wan, Tao Zhou, Jing Liu, Chaoqing Dai^{*}, and **Huicong Zhang**^{*}. Cylindrical vector beam generation from a hybrid multimode Q-switched mode-locked fiber laser. *Infrared Physics and Technology*, 137: 105187 (2024). (中科院二区)

14. Tao Zhou, Junjie Li, **Huicong Zhang**^{*}, Propagation characteristics of astigmatic elliptic vortex beams in nonlocal media with anisotropic nonlinearity. *Results in Physics*, 56: 107249 (2024). (中科院二区)

15. Jiajie Fang, Dasheng Mou, Yueyue Wang, **Huicong Zhang**[#], Chaoqing Dai[#], Yixiang Chen. Soliton dynamics based on exact solutions of conformable fractional discrete complex cubic Ginzburg-Landau equation, *Results in Physics*, 20, 103710 (2021). (中科院二区)

发明专利:

1. 郭旗, **张慧聪**, 寿倩, 胡巍, 一种像散椭圆光束的产生及其轨道角动量的测量方法。中国发明专利, 专利号: ZL201810943246.0, 授权日: 2020.10.23。