

温州大学数理学院

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宋怡玲（理学博士，讲师）



教育背景

2016 年 9 月-2021 年 6 月 博士研究生，华中科技大学物理学院，理学博士

2012 年 9 月-2016 年 6 月 本科，中南大学物理与电子学院，学士学位

经历

工作经历

2021 年 7 月-至今 讲师，研究生导师，温州大学数理学院

教学经历

2022 年 2 月-至今 讲授课程

《线性代数》《大学物理实验》

《科学研究方法和论文写作》《物理学前沿》

研究方向

1. 非厄米光学
2. 微纳光学
3. 光学合成维度

主持和参与项目

1. 国家自然科学基金，青年项目，12404439，非厄米 Floquet 频率晶格中的拓扑相研究, 2025-01 至 2027-12, 30 万元, 在研, 主持;
2. 浙江省自然科学基金，省自然科学基金/探索项目/一般项目,LMS25A040004, 基于原子系统的连续变量量子计算研究, 2025-01 至 2026-12, 10 万元, 在研, 参与;
3. 浙江省自然科学基金，省自然科学基金/探索项目/探索青年, LQ23A040001, 基于光学谐振腔的反宇称-时间对称拓扑频率晶格研究, 2023-01 至 2025-12, 10 万元, 在研, 主持;
4. 武汉工程大学，光学信息与模式识别湖北省重点实验室开放基金课题研究基金, 202203, 基于光学谐振腔的非厄米拓扑频率晶格研究, 2023-01 至 2024-12, 3 万元, 结题, 主持;
5. 浙江省教育厅，省教育厅（科技）-一般项目,Y202146459, 合成维度中的非厄米拓扑光子学研究, 2021-10 至 2023-10, 1 万元, 结题, 主持。

论文

1. Lingzhi Zheng, Linhao Qian, Chao Hong, Wenjing Lv, Shaolin Ke, Zhuoxiong Liu, Shuaifei Ren, Mingfeng Wang, and **Yiling Song***, Exceptional-point-based flat spectrum generation in frequency lattices, **Physical Review A**, 111, 053522 (2025).
2. Yuelan Chen, Penghao Zhang, Chao Hong, **Yiling Song***, Shaolin Ke, Mingfeng Wang, Weiwei Liu*, and Peixiang Lu, Selection and enhancement of the frequency modes with Floquet exceptional points and chiral Zener tunneling, **Applied Physics Letters**, 124, 101111 (2024).
3. **Yiling Song***, Shaolin Ke, Yuelan Chen, and Mingfeng Wang, Mode-locking in anti-PT symmetric frequency lattices, **Applied Physics Letters**, 122, 151106 (2023).
4. **Yiling Song***, Yuelan Chen, Wei Xiong, and Mingfeng Wang, Flexible light manipulation in non-Hermitian frequency Su-Schrieffer-Heeger lattice, **Optics Letters**, 47, 1646-1649 (2022).
5. **Yiling Song**, Weiwei Liu*, Lingzhi Zheng, Yicong Zhang, Bing Wang*, and Peixiang Lu, 2D non-Hermitian skin effect in a synthetic photonic lattice. **Physical Review Applied**, 14, 064076 (2020).
6. **Yiling Song**, Weiwei Liu*, Yan Qin, Xiaobo Han, Wancai Li, Xiaohong Li, Hua Long, Dehui Li, Kai Wang, Bing Wang, and Peixiang Lu*, Photoinduced Trap Passivation for Enhanced Photoluminescence in 2D Organic-Inorganic Hybrid Perovskites, **Advanced Optical Materials**, 8, 1901695,05 (2020).
7. **Yiling Song**, Weiwei Liu*, Chen Fang, Dehui Li, and Peixiang Lu*, Enhanced optoelectronic performance of 2Dorganic-inorganic hybrid perovskite through light-illumination, **Optics Express**, 30618-30628 (2019).

8. **Yiling Song**, Cong Zhang, Weiwei Liu*, Xiaohong Li, Hua Long, Kai Wang, Bing Wang, and Peixiang Lu*, High-efficiency energy transfer in perovskite Heterostructures, **Optics Express**, 26, 18448-18456 (2018).
9. Di Wang, Lei Xie, Jinfeng Liu, **Yiling Song**, Wei Xiong, and Mingfeng Wang*, Quantum teleportation between a continuous-variable optical qumode and a discrete-variable solid-state qubit, **Physical Review A**, 111, 012438 (2025).
10. Yang Liu, Chuang Jiang, Wanting Wen, **Yiling Song**, Peixiang Lu, and Shaolin Ke*, Topological phases in photonic microring lattices with projective symmetry. **Physical Review A**, 109, 013516 (2024).
11. Chuang Jiang, Yang Liu, Xiaohong Li, **Yiling Song**, and Shaolin Ke*, Twist-induced non-Hermitian skin effect in optical waveguide arrays. **Applied Physics Letters**, 123, 151101 (2023).
12. Chuang Jiang, **Yiling Song**, Xiaohong Li*, Peixiang Lu, and Shaolin Ke*, Photonic Möbius topological insulator from projective symmetry in multi-orbital waveguides, **Optics Letters**, 48, 2337-2340 (2023).
13. Wei Xiong, Zhuangxia Li, **Yiling Song**, Jiaojiao Chen*, Guo-Qiang Zhang*, and Mingfeng Wang*, Higher-order exceptional point in a pseudo-Hermitian cavity optomechanical system, **Physical Review A**, 104, 063508 (2021).
14. Mostafa Abdelhamied, **Yiling Song**, Weiwei Liu*, Xiaohong Li, Hua Long, Kai Wang, Bing Wang and Peixiang Lu, Improved photoemission and stability of 2D organic-inorganic lead iodide perovskite films by polymer passivation. **Nanotechnology**, 1361-6528 (2020).
15. Li Xiaohong, Liu Weiwei*, **Yiling Song**, Hua Long, Kai Wang, Bing Wang, Peixiang Lu*, Two-photon-pumped high-quality, single-mode vertical cavity lasing based on perovskite monocrystalline films. **Nano Energy**, 68, 104334 (2020).
16. Xiaohong Li, Weiwei Liu*, **Yiling Song**, Cong Zhang, Hua Long, Kai Wang, Bing Wang, and Peixiang Lu*, Enhancement of the Second Harmonic Generation from WS₂ Monolayers by Cooperating with Dielectric Microspheres. **Advanced Optical Materials**, 7, 1801270 (2019).
17. Weiwei Liu, Xiaohong Li, **Yiling Song**, Cong Zhang, Xiaobo Han, Hua Long, Bing Wang, Kai Wang*, and Peixiang Lu*, Cooperative Enhancement of Two-Photon-Absorption-Induced Photoluminescence from a 2D Perovskite-Microsphere Hybrid Dielectric Structure. **Advanced Functional Materials**, 28, 1707550 (2018).

指导硕士生

2021 级	陈月兰（女）
2023 级	洪超（男）
2024 级	吕文静（女）
2025 级	董怡彬（女）