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教育背景

- 2012. 09-2016. 07 理学博士 复旦大学
- 2009. 09-2012. 07 理学硕士 安徽大学
- 2005. 09-2009. 07 理学学士 巢湖学院

工作经历

- 2023. 01-至今 副教授 温州大学数理学院
- 2021. 05-2022. 12 讲师 温州大学数理学院
- 2021. 02-2021. 08 访问学者 浙江大学光学研究所
- 2018. 07-2020. 12 讲师 合肥大学先进学院
- 2016. 08-2018. 07 博士后 中国工程物理研究院

课程

- 本科生: (1) 大学物理 (2) 线性代数 (3) 前沿导航 (4) 科研见习
- 研究生: (1) 量子光学 (2) 科学前沿 (3) 科技论文撰写

研究方向

- 腔光力学 ● 腔磁子学 ● 强耦合 ● 非厄米

荣誉

- 温州大学优秀教师(2022)
- “王孝安创新创业” 科创名师 (2022)
- 温州大学新湖学者(2023)
- 温州大学优秀党员(2024)
- 温州大学毕业论文优秀导师(2022, 2023, 2024)
- 温州大学研究生创新项目导师(2023, 2024, 2025)
- 温州大学优秀党务工作者(2025)
- 第二十八届“物华教育基金” 园丁奖 (2025)

科研项目

- 2025-2027 浙江省尖兵项目 《混合量子器件》
- 2025-2026 深圳量子研究院 《金刚石自旋强耦合量子器件的理论研究》
- 2024-2026 浙江省自然科学基金 《金刚石自旋与固态磁振子强耦合界面的理论研究》
- 2019-2021 国自然青年基金 《混合光机械系统中光子和声子的调控及量子效应研究》
- 2017-2018 中国博士后基金 《基于纳米机械振子的固态混合量子器件的理论研究》

研究生

- 李转霞 (2020) (企业)
- 田淼 (2021) (中学)
- 樊晓红 (读博) 刘明月 (中学) 何文娣 (中学) (2022)
- 陈雪纯 李紫薇 陈钦耿 彭马磊 (2023)
- 汪子杰 龚媛 郑圣博 (2024)
- 焦宇静 毕盈 (2025)

会议报告

- 熊伟, “量子界面诱导的自旋间长程强耦合”, 第三届全国光量子科学与技术学术会议, 2023.07.07-11 山西 太原, [口头报告](#)
- 熊伟, “Quantum interface for strong spin-spin coupling”, 第四届全国光量子科学与技术学术会议, 2025.07.04-08 陕西 西安, [口头报告](#)
- 熊伟, “磁子介导的金刚石自旋强耦合理论研究”, 第十九届全国磁学理论会议, 2025.07.21-25 内蒙古 呼和浩特, [口头报告](#)
- 熊伟, “光力介导的金刚石自旋强耦合”, 第九届全国量子物理青年学者研讨会, 2025.08.01-04 广西 桂林, [口头报告](#)
- 熊伟, “非线性磁振子混合量子器件”, 2025 浙江省物理学术与教学研讨会, 2025.12.04-07 浙江 温州, [口头报告](#)
- 熊伟, “非线性磁振子”, 第十届全国量子物理青年学者研讨会, 2026.05.17-20 浙江 杭州, [口头报告](#)

发表论文

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- [64] Guo-Qiang Zhang*, Si-Yan Lin, Wei Feng, Lijiong Shen, Yi-Hao Kang, and **Wei Xiong***, Nonreciprocal superradiant quantum phase transition induced by magnon Kerr effect, [Physical Review B 113, 094403 \(2026\)](#).
- [63] Xiao-Gang Fan, Cheng-Cheng Liu, Xiao-Yun Zhao, Zhi-Yong Ding, Juan He, **Wei Xiong***, and Liu Ye*, Analytical Steering Criterion Based on Critical Radius for any Two-Qubit States, [Advanced Quantum Technologies 9, e00824 \(2026\)](#).

- [62] **Wei Xiong**, Yuan Gong, Zhuanxia Li, Ying-Xia Wu, Yan-Xue Cheng, Jiaojiao Chen*, Nonreciprocal Bistability in Coupled Nonlinear Cavity Magnonics, [Chaos, Solitons and Fractals](#) 204, 117777 (2026).
- [61] Qin-Geng Chen, Ming-Yue Liu, Xian-Xian Huang, Jiaojiao Chen*, and **Wei Xiong***, Hybrid Cavity-Magnon Optomechanics: Tailoring Bipartite and Tripartite Macroscopic Entanglement, [Chaos, Solitons and Fractals](#) 202, 117472 (2026).
- [60] Xue-Chun Chen, Zi-Jie Wang, Sheng-Bo Zheng, Jiaojiao Chen*, and **Wei Xiong***, Exponentially Enhanced Tripartite Coupling in Quantum Nonlinear Magnonics, [Physical Review A](#) 112, 063730 (2025).
- [59] Gang Liu and **Wei Xiong***, A²-robust superradiant phase transition in hybrid qubit-cavity optomechanics, [Physical Review A](#) 112, 063727 (2025).
- [58] Zi-Wei Li, Yan-Xue Cheng, Ying-Xia Wu, Jiaojiao Chen, and **Wei Xiong***, Coherent Perfect Absorption in a Parametric Cavity-Ensemble System, [Photonics](#) 12 (11), 1135 (2025).
- [57] Xiao-Gang Fan, Jiaojiao Chen, **Wei Xiong***, Dong Wang, and Liu Ye*, Quantum steering transfer within quantum network, [New Journal of Physics](#) 27, 064508 (2025).
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- [55] Ming-Yue Liu, Yuan Gong, Jiaojiao Chen, Yan-Wei Wang*, and **Wei Xiong***, Nonreciprocal Microwave-Optical Entanglement in Kerr-Modified Cavity Optomagnomechanics, [Chinese Physics B](#) 34, 057202 (2025).
- [54] Ma-Lei Peng, Miao Tian, Xue-Chun Chen, Ming-Feng Wang, Guo-Qiang Zhang, Hai-Chao Li, and **Wei Xiong***, Cavity magnon-polariton interface for strong spin – spin coupling, [Optics Letters](#) 50 (5), 1516 (2025).
- [53] Wen-Di He, Xiao-Hong Fan, Ming-Yue Liu, Guo-Qiang Zhang*, Hai-Chao Li*, and **Wei Xiong***, Mechanical dynamics around higher-order exceptional point in magno-optomechanics, [Adv. Quantum Tech.](#) 8 (3), 24002755 (2025).
- [52] Di Wang, Lei Xie, Jinfeng Liu, Yiling Song, **Wei Xiong**, Ming-Feng Wang*, Quantum teleportation between a continuous-variable optical qumode and a discrete-variable solid-state qubit, [Physical Review A](#) 111 (1), 012438 (2025).
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- [49] Xiao-Hong Fan, Yi-Ning Zhang, JP Yu, Ming-Yue Liu, Wen-Di He, Hai-Chao Li*, and **Wei Xiong***, Nonreciprocal Unconventional Photon Blockade with Kerr Magnons, [Advanced Quantum Technologies](#) 7 (8), 2400043 (2024).
- [48] Hai-Chao Li*, W Huang, **Wei Xiong**, Exploring global symmetry-breaking superradiant phase via phase competition, [Optics Letters](#) 8 (49), 2137 (2024).
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- [46] Lei Xie, Zhiqi Yan, Lingxia Wang, Di Wang, Jinfeng Liu, Yiling Song, **Wei Xiong***, Ming-Feng Wang*, Unitary and efficient spin squeezing in cavity optomechanics, [arXiv:2401.15553](#)
- [45] MX Liang, Hai-Chao Li*, and **Wei Xiong***, Difference-Frequency Generation with and without Quantum Interference in Superconducting Circuits, [Advanced Quantum Technologies](#) 7 (3), 2300300 (2024).
- [44] Guo-Qiang Zhang, Wei Feng, **Wei Xiong**, Da Xu, Qi-Ping Su, Chui-Ping Yang*, Generating Bell states and N-partite W states of long-distance qubits in superconducting waveguide QED, [Physical Review Appl.](#) 20 (4), 044014 (2023).
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- [38] Y Zhou, LZ Cao, CS Hu, ZC Zhang, **Wei Xiong**, Phase-dependent strategy to mimic quantum phase transitions, [Frontiers in Quantum Science and Technology](#) 1, 11 (2023)
- [37] Guo-Qiang Zhang, Wei Feng, **Wei Xiong**, Qi-Ping Su, and Chui-Ping Yang*, Generation of long-lived W states via reservoir engineering in dissipatively coupled systems, [Physical Review A](#) 107 (1), 012410 (2023).
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