

王明锋

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教育背景

|                   |       |         |      |
|-------------------|-------|---------|------|
| 2012. 09-2015. 07 | 博士研究生 | 复旦大学物理系 | 理学博士 |
| 2006. 09-2009. 07 | 硕士研究生 | 温州大学物理系 | 理学硕士 |
| 2002. 09-2006. 07 | 本科    | 温州大学物理系 | 理学学士 |

工作经历

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|-------------------|-------|----------|
| 2026. 01-至今       | 教授    | 温州大学数理学院 |
| 2020. 01-2025. 12 | 副教授   | 温州大学数理学院 |
| 2017. 01-2019. 12 | 高级实验师 | 温州大学数电学院 |
| 2012. 01-2017. 12 | 实验师   | 温州大学物电学院 |
| 2009. 07-2011. 12 | 助理实验师 | 温州大学物电学院 |

教学经历

- 量子力学

量子光学

量子信息
- 流体力学

近代物理实验

大学物理实验

研究方向

- 量子光学（光与原子相互作用）

量子通信（连续变量量子通信）
- 量子计算（连续变量量子计算）

量子精密测量（集体自旋体系）

科研项目

|           |                |                       |
|-----------|----------------|-----------------------|
| 2023-2028 | 科技创新 2030 重大项目 | 《基于原子纠缠的精密测量的理论研究》    |
| 2025-2026 | 浙江省自然科学基金      | 《基于原子系综的连续变量量子计算》     |
| 2025-2027 | 国家重点实验室开放基金    | 《原子内-外态协同自旋压缩的研究》     |
| 2016-2019 | 国家自然科学基金青年基金   | 《原子系综中高度自旋压缩态产生的研究》   |
| 2012-2014 | 浙江省自然科学基金      | 《原子频率梳光子回声技术的研究》      |
| 2011-2013 | 浙江省教育厅项目       | 《基于原子频率梳技术的光量子信息存储研究》 |

## 发表论文

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- [3] Youwei Zhang, Shenchao Jin, Junlei Duan, Klaus Mølmer, Guiying Zhang\*, [Mingfeng Wang\\*](#), Yanhong Xiao\*, Cooperative squeezing of internal and collective spins in an atomic ensemble, **Phys. Rev. Lett.** **135**, 213604 (2025).
- [4] Shenchao Jin, Han Bao, Junlei Duan, Xingda Lu, [Mingfeng Wang](#), Kaifeng Zhao, Heng Shen\*, Yanhong Xiao\*, Adiabaticity in state preparation for spin squeezing of large atom ensembles, **Photonics Research** **11**, 2296 (2021).
- [5] Zhiwei Hu, Youwei Zhang, Junlei Duan, [Mingfeng Wang\\*](#), Yanhong Xiao\*, Enhancing collective spin squeezing via one-axis twisting echo control of individual atoms, **arXiv:2602.14036**.
- [6] Jinfeng Liu, Yan Mu, Lili Song, Gang Liu, [Mingfeng Wang\\*](#), Engineering near-unitary one-axis twisting evolution via a driven Tavis-Cummings model, **arXiv:2603.12043**.
- [7] Di Wang, Lei Xie, Jinfeng Liu, Yiling Song, Wei Xiong, [Mingfeng Wang\\*](#), Quantum teleportation between a continuous-variable optical qumode and a discrete-variable solid-state qubit, **Phys. Rev. A** **111**, 012438 (2025).
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- [11] Lingxia Wang, Yani Wang, Yujing Cheng, Zhiqi Yan, Lei Xie, Gang Liu, Jinmin Fan, Di Wang, Yiling Song, Linli He\*, Wei Xiong\*, [Mingfeng Wang\\*](#), Entangling spins using cubic nonlinear dynamics, **arXiv:2301.04520**.

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- [13] Wei Xiong\*, [Mingfeng Wang\\*](#), Guo-Qiang Zhang\*, Jiaojiao Chen\*, Optomechanical interface induced strong spin-magnon coupling, **Phys. Rev. A** **107**, 033516 (2023).
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## 指导硕士生

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|--------|-------------------|
| 2016 级 | 刘 刚 (读博)          |
| 2018 级 | 王娅妮 (中学)          |
| 2020 级 | 王玲霞 (企业)、闫智奇 (高校) |
| 2021 级 | 谢 蕾 (中学)          |
| 2022 级 | 王 迪 (中学)          |
| 2023 级 | 刘金凤 (中学)          |