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博士	1995-1997	中国科学院固体物理研究所
硕士	1985-1988	中国科学院金属研究所
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Research Focus



研究领域

- 量子计算与量子信息，包括基于超导量子比特、自旋和拓扑体系的量子计算
 - 量子光学，包括基于固体量子态的腔量子电动力学
 - 凝聚态物理，包括固态混合量子体系和介观物理
- Quantum Computation and Quantum Information, including quantum computing with superconducting qubits, spins and topological quantum systems
 - Quantum Optics, including cavity quantum electrodynamics (cavity QED) with solid-state quantum states
 - Condensed Matter Physics, including hybrid quantum systems and mesoscopic physics

Representative Publications



代表出版物

- Z. Yan, Y. R. Zhang, M. Gong, Y. Wu, Y. Zheng, S. Li, C. Wang, F. Liang, J. Lin, Y. Xu, C. Guo, L. Sun, C. Z. Peng, K. Xia, H. Deng, H. Rong, J. Q. You, F. Nori, H. Fan, X. Zhu, and J. W. Pan, Strongly correlated quantum walks with a 12-qubit superconducting processor, *Science*, 2019 (印刷中)
- Y. P. Wang, G. Q. Zhang, D. Zhang, T. F. Li, C. M. Hu, and J. Q. You, Bistability of cavity magnon polaritons, *Physical Review Letters* 120, 057202 (2018).
- D. Zhang, X. Q. Luo, Y. P. Wang, T. F. Li, and J. Q. You, Observation of the exceptional point in cavity magnon-polaritons, *Nature Communications* 8, 1368 (2017).
- Z. L. Xiang, S. Ashhab, J. Q. You, and F. Nori, Hybrid quantum circuits: Superconducting circuits interacting with other quantum systems, *Review of Modern Physics* 85, 623-653 (2013).
- J. Q. You and F. Nori, Atomic physics and quantum optics using superconducting circuits, *Nature* 473, 589-597 (2011).
- J. Q. You, Y. X. Liu, and F. Nori, Simultaneous cooling of an artificial atom and its neighboring quantum system, *Physical Review Letters* 100, 047001 (2008).