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Research Focus

研究领域

- 1、光与原子相互作用
- 2、光学非线性
- 3、压缩态、纠缠态制备与操控
- 4、量子测量、量子计算、量子通信

1. The interaction of light and atoms
2. Optical nonlinearity
3. The preparation and manipulation of squeezed and entangled states
4. Quantum measurement, computing and communication

Representative Publications

代表出版物

1. Qichang Jiang, Yan Zhang, Dan Wang, Sven Ahrens, Junxiang Zhang, Shiyao Zhu, Superluminal reflection and transmission of light pulses via resonant four-wave mixing in cesium vapor, *Opt. Express*, 24, 24451(2016).
2. Yan Zhang, Jinhong Liu, Jinze Wu, Rong Ma, Dan Wang and Junxiang Zhang, Single-frequency tunable 447.3 nm laser by frequency doubling of tapered amplified diode laser at cesium D1 line, *Opt. Express*, 24, 19769(2016).
3. Juanjuan Ren, Hongyi Chen, Ying Gu, Dongxing Zhao, Haitao Zhou, Junxiang Zhang and Qihuang Gong, Plasmon-enhanced Kerr nonlinearity via subwavelength-confined anisotropic Purcell factors, *Nanotechnology* 27, 425205 (2016).
4. Miaojun Guo, Haitao Zhou, Dan Wang, Jiangrui Gao, Junxiang Zhang, and Shi-Yao Zhu, Experimental investigation of high-frequency-difference twin beams in hot cesium atoms, *Phys. Rev. A*, 89, 033813(2014).
5. ZHANG JunXiang, JIANG QiChang, LIU Chao, ZHANG XinSheng, LIU JinHong, The manipulation of light pulse from subluminal to superluminal propagation in a degenerate two-level Cs atomic system, *SCIENCE CHINA Physics, Mechanics & Astronomy*, 57(12), 2246 (2014).
6. Xihua Yang, Bolin Xue, Junxiang Zhang, Shiyao Zhu, A universal quantum information processor for scalable quantum communication and networks, *Scientific Reports*, 4, 6629(2014); doi:10.1038/srep06629.
7. Dan Wang, Li-Yun Hu, Xiu-Mei Pang, Jun-Xiang Zhang, Shi-Yao Zhu, Quadripartite entanglement from a double three-level lambda-type atom model, *Phys. Rev. A*, 88, 042314 (2013).
8. Da-Wei Wang, Hai-Tao Zhou, Miao-Jun Guo, Jun-Xiang Zhang, Jörg Evers, Shi-Yao Zhu, Optical Diode Made from a Moving Photonic Crystal, *Phys. Rev. Lett.*, 110, 093901 (2013).
9. Hai-Tao Zhou, Da-Wei Wang, Dan-Wang, Junxiang Zhang and Shi-Yao Zhu, Efficient reflection via four-wave mixing in a Doppler-free electromagnetically-induced-transparency gas system, *Phys. Rev. A*, 84(5), 053835(1-5) (2011).
10. Junxiang Zhang, Hai-Tao Zhou, Da-Wei Wang, and Shi-Yao Zhu, Enhanced reflection via phase compensation from anomalous dispersion in atomic vapor, *Phys. Rev. A*, 83, 053841 (2011).