个人简历

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个人信息

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学习工作经历

2017.06-现在　　东北师范大学物理学院，副教授

2019.03-2019.05　意大利比萨高师，访问学者

2014.10-2016.10　美国罗切斯特大学，博士后

2012.07-2017.06　东北师范大学物理学院，讲师

2007.09-2012.06　吉林大学物理学院，光学专业博士

基金项目

国家自然科学基金，关联调制 PT 对称原子系统中光子传输行为的量子调控与应用，2018，主持。

吉林省科技厅基金，双周期调制低维量子材料中的非传统多光子传输与存储，2018，主持。

国家自然科学基金国际合作项目，应用于信息和通讯技术的多色量子纠缠，2018，参与。

国家自然科学基金，相干光驱动的超冷原子系综中光子流的动态量子调控，2013 主持。

近年论文

1. Controlled unidirectional reflection in cold atoms via the spatial Kramers-Kronig relation, Opitcs Express 29, 5890 (2021).
2. Nonreciprocal transmission and asymmetric fast—slow light effect in an optomechanical system with two-symmetric mechanical resonators, Laser Physics 30, 105205 (2020).
3. Controllable enhanced linear and nonlinear optical characteristics induced by PT-like phase transition, Physics Letters A 384, 126836 (2020).
4. Light splitting and stopping and their combination via controllable Bloch oscillation in a lattice, Journal of the Optical Society of America B-Optical Physics 37, 2045-2052 (2020).
5. Dynamically tunable three-color reflections immune to disorder in optical lattices with trapped cold 87Rb atoms, Physical Review A 101, 053856 (2020).
6. Controllable quantum interference and photon transport in three-mode closed-loop cavity-atom system, Acta Physica Sinica 69, 113701 (2020).
7. Dual-gate transistor amplifier in a multimode optomechanical system, Optics Express 28, 7095 (2020).
8. Controllable unidirectional transport and light trapping using a one-dimensional lattice with non-Hermitian

coupling, Scientific Reports 10, 1113 (2020).

9. Topological edge states with skin effect in a trimerized non-Hermitian lattice, Acta Phys. Sin. 68, 104206 (2019).
10. Multiple PT symmetry and tunable scattering behaviors in a heterojunction cavity, Journal of the Optical Society of America B 35, 2075 (2018).
11. All-optical photon switching, router and amplifier using a passive-active optomechanical system, EPL 122, 24001 (2018).
12. Enhanced nonlinear characteristics with the assistance of a PT-symmetric trimer system, Scientific Reports 8, 2933 (2018).
13. Tunable photonic band gaps and optical nonreciprocity by an RF-driving ladder-type system in moving optical lattice, Optics Communications 410, 916 (2018).
14. Dynamic generation and coherent control of beating stationary light pulses by a microwave coupling field in five-level cold atoms, optics communication 412,49 (2018)
15. Inversionless gain via six-wave mixing and the investigation of distributed feedback, Physics Letters A 381, 1620 (2017).
16. Probe gain via four-wave mixing based on spontaneously generated coherence, Chinese Physics B 26, 024204 (2017).
17. Excited-state fidelity as a signal for the many-body localization transition in a disordered Ising chain, Scientific Reports 7, 577 (2017).
18. Light reflector, amplifier, and splitter based on gain-assisted photonic band gaps, Physical Review A 94, 013836(2016).
19. Fidelity of the diagonal ensemble signals the many-body localization transition, Physical Review E 94, 052119 (2016).
20. Light reflector, amplifier, and splitter based on gain-assisted photonic band gaps, Physical Review A 94, 013836 (2016).
21. Dynamically induced two-color nonreciprocity in a tripod system of a moving atomic lattice, Physical Review A 92,053859(2015).
22. Tunable high-order photonic band gaps of ultraviolet light in cold atoms, Physical Review A 91, 013826 (2015).
23. Phase control of stationary light pulses due to a weak microwave coupling,Optics Communications 343 183 (2015).
24. Electromagnetically induced transparency in a Y system with single Rydberg state, Optics Communications 345, 6–12 (2015).
25. Nonlinear modifications of photon correlations via controlled single and double Rydberg blockade, Physical Review A 91, 043802 (2015).
26. Topological basis associated with B–M–W algebra: Two-spin-1/2 realization, Physics Letters A 379, 1–4 (2015).
27. Tunable slow and fast light in an atom-assisted optomechanical system, Optics Communications 338, 569–573 (2015).