

Lirong Wang

List of Publications by Year in descending order

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34
papers

328
citations

933447

10
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888059

17
g-index

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all docs

34
docs citations

34
times ranked

120
citing authors

#	ARTICLE	IF	CITATIONS
1	A dual-wavelength bandpass Faraday anomalous dispersion optical filter operating on the D1 and D2 lines of rubidium. Optics Communications, 2022, 509, 127855.	2.1	4
2	Enhanced frequency up-conversion based on four-wave mixing assisted by a Bessel-Gaussian beam in 85Rb atoms. Optics and Laser Technology, 2022, 149, 107874.	4.6	7
3	Sensitivity enhancement of nonlinear refractiveindex measurement by Gaussian-Bessel beamassisted z-scan method. Optics Express, 2022, 30, 7291-7298.	3.4	1
4	Enhanced Microwave Electric Field Measurement With Cavity-Assisted Rydberg Electromagnetically Induced Transparency. Frontiers in Physics, 2022, 10, .	2.1	6
5	Investigation of $6S_{1/2} \rightarrow 8S_{1/2}$ two-photon transition of cesium atoms by a single 822 nm laser. Laser Physics Letters, 2022, 19, 025201.	1.4	3
6	Tunable high-order Bessel-like beam generation based on cross-phase modulation. Optics Express, 2022, 30, 15978.	3.4	4
7	Coherent population transfer of Rydberg atoms in a dual-microwave driven five-level configuration. Optics Communications, 2022, 522, 128603.	2.1	4
8	Efficient all-optical modulator based on a periodic dielectric atomic lattice. Optics Express, 2021, 29, 2712.	3.4	17
9	Coherent 420 nm light generated by the cavity-enhanced four-wave mixing process in Rb vapor. Optics Express, 2021, 29, 4858.	3.4	12
10	High-precision three-dimensional Rydberg atom localization in a four-level atomic system*. Chinese Physics B, 2021, 30, 053202.	1.4	1
11	Coherent near-infrared light generation based on self-seeded parametric four-wave mixing in Rb vapor. Laser Physics Letters, 2021, 18, 055207.	1.4	0
12	All-optical tunable high-order Gaussian beam splitter based on a periodic dielectric atomic structure. Optics Express, 2021, 29, 25439.	3.4	9
13	Tunable optical vortex array in a two-dimensional electromagnetically induced atomic lattice. Optics Letters, 2021, 46, 4184.	3.3	22
14	Characterization of rubidium thin cell properties with sandwiched structure using a multipath interferometer with an optical frequency comb. Optics Letters, 2021, 46, 4284.	3.3	1
15	Measurement of the quantum defects of 85Rb P and F-series via microwave-assisted electromagnetically induced transparency spectroscopy. Results in Physics, 2021, 29, 104728.	4.1	5
16	Subwavelength three-dimensional Rydberg atom localization by optical absorption microscopy. Laser Physics Letters, 2021, 18, 015201.	1.4	2
17	Improvement of Microwave Electric Field Measurement Sensitivity via Multi-Carrier Modulation in Rydberg Atoms. Applied Sciences (Switzerland), 2020, 10, 8110.	2.5	15
18	Observation of an Electromagnetically Induced Grating in Cold 85Rb Atoms. Applied Sciences (Switzerland), 2020, 10, 5740.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Laser frequency stabilization on $5P^{\circ} \rightarrow 5D$ transition by double resonance optical pumping and two-photon transition spectroscopy in rubidium. <i>Laser Physics</i> , 2020, 30, 025201.	1.2	1
20	Optically tunable grating in a $V + \tilde{Z}$ configuration involving a Rydberg state. <i>Optics Express</i> , 2020, 28, 23820.	3.4	38
21	Measurement of the Kerr nonlinear refractive index of the Rb vapor based on an optical frequency comb using the z-scan method. <i>Optics Express</i> , 2020, 28, 38334.	3.4	9
22	Measurement of the wavefunction for a biphoton state with homodyne detection using least squares estimation. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 025202.	2.2	3
23	A stable frequency standard based on the one-color two-photon $5S \rightarrow 7S$ transition of rubidium at 760 nm. <i>Laser Physics Letters</i> , 2019, 16, 125204.	1.4	7
24	Integer and fractional electromagnetically induced Talbot effects in a ladder-type coherent atomic system. <i>Optics Express</i> , 2019, 27, 92.	3.4	24
25	Rotamers of <i>p</i> -isopropylphenol studied by hole-burning resonantly enhanced multiphoton ionization and mass analyzed threshold ionization spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 207, 328-336.	3.9	9
26	Observation of diffraction pattern in two-dimensional optically induced atomic lattice. <i>Optics Letters</i> , 2019, 44, 4123.	3.3	53
27	Experimental observation of three-photon interference between a two-photon state and a weak coherent state on a beam splitter. <i>Optics Express</i> , 2018, 26, 20442.	3.4	4
28	Investigation on the Monochromatic Two-Photon Transition Spectroscopy of Rubidium by Using Intensity Modulation Method. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 084301.	1.6	5
29	Superfluid-Mott-insulator quantum phase transition of light in a two-mode cavity array with ultrastrong coupling. <i>Physical Review A</i> , 2017, 95, .	2.5	4
30	Experimental study of discrete diffraction behavior in a coherent atomic system. <i>Laser Physics Letters</i> , 2017, 14, 125206.	1.4	12
31	Direct measurement of laser-induced frequency shift rate of ultracold cesium molecules by analyzing losses of trapped atoms. <i>Applied Physics Letters</i> , 2012, 101, 131114.	3.3	8
32	Research on ultracold cesium molecule long-range states by high-resolution photoassociative spectroscopy. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2008, 51, 147-156.	0.2	1
33	Absolute frequency stabilization of a diode laser to cesium atom-molecular hyperfine transitions via modulating molecules. <i>Applied Physics Letters</i> , 2007, 91, 161101.	3.3	22
34	Tunable and frequency-stabilized diode laser using temperature-dependent energy pooling fluorescence. <i>Applied Physics Letters</i> , 2006, 88, 231104.	3.3	2