

# Lirong Wang

## List of Publications by Year in descending order

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34  
papers

328  
citations

933447

10  
h-index

888059

17  
g-index

34  
all docs

34  
docs citations

34  
times ranked

120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of diffraction pattern in two-dimensional optically induced atomic lattice. Optics Letters, 2019, 44, 4123.	3.3	53
2	Optically tunable grating in a $V$ - $\tilde{z}$ configuration involving a Rydberg state. Optics Express, 2020, 28, 23820.	3.4	38
3	Integer and fractional electromagnetically induced Talbot effects in a ladder-type coherent atomic system. Optics Express, 2019, 27, 92.	3.4	24
4	Absolute frequency stabilization of a diode laser to cesium atom-molecular hyperfine transitions via modulating molecules. Applied Physics Letters, 2007, 91, 161101.	3.3	22
5	Tunable optical vortex array in a two-dimensional electromagnetically induced atomic lattice. Optics Letters, 2021, 46, 4184.	3.3	22
6	Efficient all-optical modulator based on a periodic dielectric atomic lattice. Optics Express, 2021, 29, 2712.	3.4	17
7	Improvement of Microwave Electric Field Measurement Sensitivity via Multi-Carrier Modulation in Rydberg Atoms. Applied Sciences (Switzerland), 2020, 10, 8110.	2.5	15
8	Observation of an Electromagnetically Induced Grating in Cold 85Rb Atoms. Applied Sciences (Switzerland), 2020, 10, 5740.	2.5	13
9	Experimental study of discrete diffraction behavior in a coherent atomic system. Laser Physics Letters, 2017, 14, 125206.	1.4	12
10	Coherent 420 nm light generated by the cavity-enhanced four-wave mixing process in Rb vapor. Optics Express, 2021, 29, 4858.	3.4	12
11	Rotamers of <i>p</i> -isopropylphenol studied by hole-burning resonantly enhanced multiphoton ionization and mass analyzed threshold ionization spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 328-336.	3.9	9
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	Measurement of the Kerr nonlinear refractive index of the Rb vapor based on an optical frequency comb using the z-scan method. Optics Express, 2020, 28, 38334.	3.4	9
14	Direct measurement of laser-induced frequency shift rate of ultracold cesium molecules by analyzing losses of trapped atoms. Applied Physics Letters, 2012, 101, 131114.	3.3	8
15	A stable frequency standard based on the one-color two-photon $5S \rightarrow 7S$ transition of rubidium at 760 nm. Laser Physics Letters, 2019, 16, 125204.	1.4	7
16	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
17	Enhanced Microwave Electric Field Measurement With Cavity-Assisted Rydberg Electromagnetically Induced Transparency. Frontiers in Physics, 2022, 10, .	2.1	6
18	Investigation on the Monochromatic Two-Photon Transition Spectroscopy of Rubidium by Using Intensity Modulation Method. Journal of the Physical Society of Japan, 2018, 87, 084301.	1.6	5

#	ARTICLE	IF	CITATIONS
19	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
20	Superfluidâ€Mott-insulator quantum phase transition of light in a two-mode cavity array with ultrastrong coupling. Physical Review A, 2017, 95, .	2.5	4
21	Experimental observation of three-photon interference between a two-photon state and a weak coherent state on a beam splitter. Optics Express, 2018, 26, 20442.	3.4	4
22	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
23	Tunable high-order Bessel-like beam generation based on cross-phase modulation. Optics Express, 2022, 30, 15978.	3.4	4
24	Coherent population transfer of Rydberg atoms in a dual-microwave driven five-level configuration. Optics Communications, 2022, 522, 128603.	2.1	4
25	Measurement of the wavefunction for a biphoton state with homodyne detection using least squares estimation. Journal of Optics (United Kingdom), 2020, 22, 025202.	2.2	3
26	Investigation of $6S_{1/2}$ â€8S $1/2$ two-photon transition of cesium atoms by a single 822 nm laser. Laser Physics Letters, 2022, 19, 025201.	1.4	3
27	Tunable and frequency-stabilized diode laser using temperature-dependent energy pooling fluorescence. Applied Physics Letters, 2006, 88, 231104.	3.3	2
28	Subwavelength three-dimensional Rydberg atom localization by optical absorption microscopy. Laser Physics Letters, 2021, 18, 015201.	1.4	2
29	Research on ultracold cesium molecule long-range states by high-resolution photoassociative spectroscopy. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 147-156.	0.2	1
30	Laser frequency stabilization on $5P_{1/2}$ â€5D transition by double resonance optical pumping and two-photon transition spectroscopy in rubidium. Laser Physics, 2020, 30, 025201.	1.2	1
31	High-precision three-dimensional Rydberg atom localization in a four-level atomic system*. Chinese Physics B, 2021, 30, 053202.	1.4	1
32	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
33	Sensitivity enhancement of nonlinear refractiveindex measurement by Gaussian-Bessel beamassisted z-scan method. Optics Express, 2022, 30, 7291-7298.	3.4	1
34	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