

Ajay Wasan

List of Publications by Year in descending order

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26
papers

574
citations

933447

10
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	A Randomized Trial of Epidural Glucocorticoid Injections for Spinal Stenosis. <i>New England Journal of Medicine</i> , 2014, 371, 11-21.	27.0	322
2	High-accuracy wavemeter based on a stabilized diode laser. <i>Applied Physics Letters</i> , 2001, 79, 2139-2141.	3.3	46
3	Coherent control of magneto-optic rotation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 225503.	1.5	28
4	Electromagnetic induced transparency in the Doppler broadened cascade transition with multiple excited levels. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 185501.	1.5	28
5	Sub-luminal and super-luminal light propagation in inverted-Y system with wavelength mismatching effects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3246-3253.	2.1	20
6	Complete wavelength mismatching effect in a Doppler broadened Y-type six-level EIT atomic medium. <i>Optics Communications</i> , 2014, 324, 238-244.	2.1	19
7	Determination of phase and amplitude of degree of coherence from spectroscopic measurements. <i>Optics Communications</i> , 2000, 173, 45-49.	2.1	14
8	Influence of multiple excited states on optical properties of an Λ -type Doppler-broadened system for the D2 line of alkali atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 125501.	1.5	12
9	Correlation-induced spectral changes on passing partially coherent light through an annular aperture. <i>Optics Communications</i> , 1995, 121, 89-94.	2.1	11
10	High-precision two- and three-dimensional atom localization via spatial dependent probe absorption in a closed-loop M-type atomic system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1318.	2.1	10
11	Resolving closely spaced hyperfine levels in the $3P_{3/2}$ state of ^{23}Na . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 3111-3119.	1.5	9
12	Optical properties of an inhomogeneously broadened Λ -system with multiple excited states. <i>Journal of Modern Optics</i> , 2014, 61, 1339-1347.	1.3	9
13	Wavelength mismatch effect in electromagnetically induced absorption. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2390-2394.	2.1	8
14	Spectroscopy of partially coherent fields at geometrical-image plane and Fourier transform plane of a lens. <i>Optics Communications</i> , 1998, 149, 1-7.	2.1	7
15	Effect of nearby levels on atom localization in the Λ atomic system via spatial dependent probe absorption. <i>OSA Continuum</i> , 2019, 2, 862.	1.8	6
16	Effect of magnetic field on the optical properties of an inhomogeneously broadened multilevel Λ -system in Rb vapor. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	5
17	Polarization-rotation resonances with subnatural widths using a control laser. <i>Europhysics Letters</i> , 2014, 106, 43001.	2.0	4
18	Kerr nonlinearity based on wavelength mismatching and quantum interference in microwave driven Y-type atomic system. <i>Optics Communications</i> , 2019, 452, 366-372.	2.1	4

#	ARTICLE	IF	CITATIONS
19	Study of coherence effects in a four-level $\hat{\lambda}\hat{\lambda}^{\sim}\hat{\lambda}$ type system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 105501.	1.5	3
20	Switching from sub- to superluminal light in a Y-type atomic system using wavelength mismatching. Pramana - Journal of Physics, 2019, 93, 1.	1.8	3
21	Space-frequency equivalence principle in a laboratory version of Michelson's stellar interferometer. Optics Communications, 1996, 132, 503-510.	2.1	1
22	Polarization dependence of Electromagnetic Induced Transparency in multilevel cascade system. , 2012, , .		1
23	Five- and seven-level inhomogeneously broadened $\hat{\lambda}$ systems with mismatched wavelengths and polarization effects. European Physical Journal D, 2018, 72, 1.	1.3	1
24	Polarization dependence of the optical properties in a $\hat{\lambda}$ system with an external magnetic field. European Physical Journal D, 2019, 73, 1.	1.3	1
25	Switching from EIT to EIA in a four-level N-type atomic system. Journal of Optics (India), 2019, 48, 65-69.	1.7	1
26	The five-level $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1241" altimg="si50.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo linebreak="goodbreak" linebreakstyle="after"} \rangle \hat{\lambda} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ system as an optical switch under different wavelength mismatching regimes, including one due to Rydberg transition. Optik, 2020, 223, 165600.	2.9	1