

Denis Brazhnikov

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46
papers

250
citations

9
h-index

13
g-index

58
ext. papers

339
ext. citations

1.3
avg, IF

2.98
L-index

#	Paper	IF	Citations
46	Effect of the polarization of counterpropagating light waves on nonlinear resonances of the electromagnetically induced transparency and absorption in the Hanle configuration. <i>JETP Letters</i> , 2010 , 91, 625-629	1.2	24
45	Electromagnetically induced absorption and transparency in magneto-optical resonances in an elliptically polarized field. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 57	1.7	24
44	Features of magneto-optical resonances in an elliptically polarized traveling light wave. <i>JETP Letters</i> , 2006 , 83, 64-68	1.2	22
43	Polarization method for controlling a sign of electromagnetically-induced transparency/absorption resonances. <i>European Physical Journal D</i> , 2011 , 63, 315-325	1.3	19
42	Electromagnetically-induced-absorption resonance with high contrast and narrow width in the Hanle configuration. <i>Laser Physics Letters</i> , 2014 , 11, 125702	1.5	17
41	Dual-frequency sub-Doppler spectroscopy: Extended theoretical model and microcell-based experiments. <i>Physical Review A</i> , 2019 , 99,	2.6	13
40	High-contrast sub-Doppler absorption spikes in a hot atomic vapor cell exposed to a dual-frequency laser field. <i>New Journal of Physics</i> , 2017 , 19, 073028	2.9	12
39	Electromagnetically induced absorption and electromagnetically induced transparency for optical transitions $F_g - \gamma F_e$ in the field of elliptically polarized waves. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 121, 934-949	1	12
38	High-quality electromagnetically-induced absorption resonances in a buffer-gas-filled vapour cell. <i>Laser Physics Letters</i> , 2018 , 15, 025701	1.5	11
37	Ultrahigh-quality electromagnetically induced absorption resonances in a cesium vapor cell. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 215002	1.3	7
36	Precision spectroscopy of Mg atoms in a magneto-optical trap. <i>Quantum Electronics</i> , 2014 , 44, 521-526	1.8	7
35	Nonlinear propagation of polarized light pulses in a medium of atoms with degenerate energy levels: Adiabatic approach. <i>Physical Review A</i> , 2013 , 88,	2.6	7
34	Quantum treatment of two-stage sub-Doppler laser cooling of magnesium atoms. <i>Physical Review A</i> , 2015 , 92,	2.6	7
33	Electromagnetically induced absorption scheme for vapor-cell atomic clock. <i>Optics Express</i> , 2019 , 27, 36034-36045	3.3	7
32	Miniature quantum frequency standard based on the phenomenon of coherent population trapping in vapours of 87Rb atoms. <i>Quantum Electronics</i> , 2020 , 50, 576-580	1.8	6
31	Magneto-optical resonances in the field of counterpropagating waves. <i>JETP Letters</i> , 2007 , 85, 417-421	1.2	6
30	New approaches in deep laser cooling of magnesium atoms for quantum metrology. <i>Laser Physics</i> , 2016 , 26, 095503	1.2	6

29	Magneto-optical trap formed by elliptically polarised light waves for Mg atoms. <i>Quantum Electronics</i> , 2016 , 46, 661-667	1.8	5
28	Dual structure of saturated absorption resonance at an open atomic transition. <i>Journal of Experimental and Theoretical Physics</i> , 2011 , 112, 770-779	1	5
27	Deep laser cooling of magnesium atoms using a $3^3P_2-3^3D_3$ dipole transition. <i>Laser Physics</i> , 2014 , 24, 074011	1.2	4
26	Anomalous spatial concentration of atoms in the field of a standing light wave. <i>JETP Letters</i> , 2012 , 95, 399-402	1.2	4
25	New polarisation effects in saturated absorption spectroscopy in the field of counterpropagating light waves. <i>Quantum Electronics</i> , 2016 , 46, 453-463	1.8	3
24	Investigation of commercial 894.6 nm vertical-cavity surface-emitting lasers for applications in quantum metrology 2019 ,		3
23	Yb:YAG/12 optical frequency standard at 515 nm with instability at the level 10^{-15} . <i>Journal of Physics: Conference Series</i> , 2017 , 793, 012010	0.3	3
22	Shift and asymmetry of the saturated absorption resonance in the field of counterpropagating elliptically polarized waves. <i>Journal of Experimental and Theoretical Physics</i> , 2009 , 109, 11-22	1	3
21	Propagation of the phase pulses of bichromatic radiation under the electromagnetically induced transparency conditions. <i>Laser Physics Letters</i> , 2014 , 11, 085402	1.5	2
20	Level-crossing resonance in the field of counterpropagating elliptically polarized light waves. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2010 , 77, 606	0.9	2
19	Shift of zero-field level-crossing resonance in the Cs D line and its use in vector magnetometry. <i>Optics Letters</i> , 2020 , 45, 3309-3312	3	2
18	Short-term stability of Cs microcell-stabilized lasers using dual-frequency sub-Doppler spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> ,	1.7	2
17	Analytical Expressions of the Dark Resonance Parameters in a Vacuum Vapor Cell. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 962-972	3.2	1
16	2018 ,		1
15	The influence of higher spatial harmonics of atomic polarization on the saturated absorption resonance upon excitation of open dipole transitions by a field of counterpropagating waves. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 541-548	0.7	1
14	Specific properties of the magneto-optical Hanle resonance under excitation of the transition $F = 0 - y$ $F = 1$ by a plane elliptically polarized light wave. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2009 , 107, 113-116	0.7	1
13	Nonlinear enhanced-absorption resonances in compact alkali-vapor cells for applications in quantum metrology. <i>Journal of Physics: Conference Series</i> , 2021 , 1859, 012019	0.3	1
12	High-contrast level-crossing resonances in a small cesium vapor cell for applications in atomic magnetometry. <i>Applied Physics Letters</i> , 2021 , 119, 024001	3.4	0

- 11 Polarization effects in recoil-induced resonances. *Journal of Experimental and Theoretical Physics*, **2017**, 124, 32-40 1
- 10 Deep sub-Doppler cooling of Mg in MOT formed by light waves with elliptical polarization. *Journal of Physics: Conference Series*, **2017**, 793, 012021 0.3
- 9 An optical frequency standard based on ultracold magnesium atoms. *Journal of Physics: Conference Series*, **2017**, 793, 012008 0.3
- 8 Effect of field polarizations on recoil resonances. *Bulletin of the Russian Academy of Sciences: Physics*, **2017**, 81, 1062-1068 0.4
- 7 Effect of a stray magnetic field on nonlinear magneto-optical resonances observed in the geometry of counter-propagating light waves. *Bulletin of the Russian Academy of Sciences: Physics*, **2017**, 81, 1442-1448 0.4
- 6 Generation of a pilot phase pulse during the propagation of slow elliptically polarized pulses in a medium under coherent population trapping. *JETP Letters*, **2012**, 95, 444-448 1.2
- 5 Nonlinear spectroscopy of atom gases in elliptically polarized fields **2006**, 6257, 6
- 4 Magneto-optical resonances in elliptically polarized light field **2006**, 6259, 28
- 3 Study of a Possibility of Deep Laser Cooling of Magnesium Atoms for Designing the New-Generation Frequency Standard. *Vestnik Novosibirskogo Gosudarstvennogo Universiteta Seriya Fizika*, **2012**, 7, 6-18
- 2 Comparison of field shifts in an atomic clock based on the effect of coherent population trapping in ⁸⁷Rb atoms under modulation of laser pump current at frequencies of 3.4 and 6.8 GHz. *Quantum Electronics*, **2022**, 52, 386-390 1.8
- 1 Line Shape of the Sub-Doppler Resonance in Alkali-Metal Atomic Vapors in the Field of Counterpropagating Bichromatic Laser Beams. *Journal of Experimental and Theoretical Physics*, **2021**, 133, 696-710 1