

Denis Brazhnikov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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. <i>Quantum Electronics</i> , 2022 , 52, 386-390	1.8	
45	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
44	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
43	Line Shape of the Sub-Doppler Resonance in Alkali-Metal Atomic Vapors in the Field of Counterpropagating Bichromatic Laser Beams. <i>Journal of Experimental and Theoretical Physics</i> , 2021 , 133, 696-710	1	
42	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
41	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
40	Dual-frequency sub-Doppler spectroscopy: Extended theoretical model and microcell-based experiments. <i>Physical Review A</i> , 2019 , 99,	2.6	13
39	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
38	Investigation of commercial 894.6 nm vertical-cavity surface-emitting lasers for applications in quantum metrology 2019 ,		3
37	Electromagnetically induced absorption scheme for vapor-cell atomic clock. <i>Optics Express</i> , 2019 , 27, 36034-36045	3.3	7
36	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
35	High-quality electromagnetically-induced absorption resonances in a buffer-gas-filled vapour cell. <i>Laser Physics Letters</i> , 2018 , 15, 025701	1.5	11
34	2018 ,		1
33	Polarization effects in recoil-induced resonances. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 124, 32-40	1	
32	Deep sub-Doppler cooling of Mg in MOT formed by light waves with elliptical polarization. <i>Journal of Physics: Conference Series</i> , 2017 , 793, 012021	0.3	
31	An optical frequency standard based on ultracold magnesium atoms. <i>Journal of Physics: Conference Series</i> , 2017 , 793, 012008	0.3	
30	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

29	Effect of field polarizations on recoil resonances. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1062-1068	0.4	
28	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
27	Effect of a stray magnetic field on nonlinear magneto-optical resonances observed in the geometry of counter-propagating light waves. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1442-1448	0.4	1
26	Yb:YAG/12optical 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
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	Magneto-optical trap formed by elliptically polarised light waves for Mg atoms. <i>Quantum Electronics</i> , 2016 , 46, 661-667	1.8	5
23	New approaches in deep laser cooling of magnesium atoms for quantum metrology. <i>Laser Physics</i> , 2016 , 26, 095503	1.2	6
22	Quantum treatment of two-stage sub-Doppler laser cooling of magnesium atoms. <i>Physical Review A</i> , 2015 , 92,	2.6	7
21	Electromagnetically induced absorption and electromagnetically induced transparency for optical transitions $F_g - F_e$ in the field of elliptically polarized waves. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 121, 934-949	1	12
20	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
19	Precision spectroscopy of Mg atoms in a magneto-optical trap. <i>Quantum Electronics</i> , 2014 , 44, 521-526	1.8	7
18	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
17	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
16	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
15	Anomalous spatial concentration of atoms in the field of a standing light wave. <i>JETP Letters</i> , 2012 , 95, 399-402	1.2	4
14	Generation of a pilot phase pulse during the propagation of slow elliptically polarized pulses in a medium under coherent population trapping. <i>JETP Letters</i> , 2012 , 95, 444-448	1.2	
13	Study of a Possibility of Deep Laser Cooling of Magnesium Atoms for Designing the New-Generation Frequency Standard. <i>Vestnik Novosibirskogo Gosudarstvennogo Universiteta Seriya Fizika</i> , 2012 , 7, 6-18		
12	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

11	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
10	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
9	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
8	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
7	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
6	Magneto-optical resonances in the field of counterpropagating waves. <i>JETP Letters</i> , 2007 , 85, 417-421	1.2	6
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	Features of magneto-optical resonances in an elliptically polarized traveling light wave. <i>JETP Letters</i> , 2006 , 83, 64-68	1.2	22
2	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
1	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