

V I Romanenko

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.

36
papers

306
citations

9
h-index

16
g-index

51
ext. papers

333
ext. citations

1.4
avg, IF

2.79
L-index

#	Paper	IF	Citations
36	Evolution of the velocity distribution of atoms under the action of the bichromatic force. <i>Physical Review A</i> , 2021 , 103,	2.6	1
35	Expansion and compression of the momentum distribution of atoms in the field of the counter-propagating frequency-modulated waves. <i>European Physical Journal D</i> , 2021 , 75, 1	1.3	
34	Spatial Distribution of Atoms in the Field of Intersecting Standing Bichromatic Light Waves. <i>Ukrainian Journal of Physics</i> , 2019 , 64, 109	0.4	
33	On the Accuracy of Error Propagation Calculations by Analytic Formulas Obtained for the Inverse Transformation. <i>Ukrainian Journal of Physics</i> , 2019 , 64, 217	0.4	1
32	Atomic Momentum Diffusion in the Field of Counter-Propagating Stochastic Light Waves. <i>Ukrainian Journal of Physics</i> , 2018 , 63, 616	0.4	1
31	Trapping of atoms by the counter-propagating stochastic light waves. <i>Optics Communications</i> , 2017 , 392, 239-246	2	4
30	Atoms in the counter-propagating frequency-modulated waves: splitting, cooling, confinement. <i>European Physical Journal D</i> , 2017 , 71, 1	1.3	2
29	An Optical Trap for Atoms on the Basis of Counter-Propagating Bichromatic Light Waves. <i>Ukrainian Journal of Physics</i> , 2016 , 61, 309-324	0.4	4
28	Laser control of atomic and molecular motion by sequences of counterpropagating light pulses. <i>Journal of Modern Optics</i> , 2014 , 61, 839-844	1.1	4
27	Cooling and trapping of atoms and molecules by counterpropagating pulse trains. <i>Physical Review A</i> , 2014 , 90,	2.6	8
26	Performance of a ²²⁹ Thorium solid-state nuclear clock. <i>New Journal of Physics</i> , 2012 , 14, 083019	2.9	64
25	Storage and retrieval of coherent optical information in atomic populations. <i>Optics Communications</i> , 2011 , 284, 5710-5718	2	1
24	Influence of the atomic-wall collision elasticity on the coherent population trapping resonance shape. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 235401	1.3	8
23	Theory of one-dimensional trapping of atoms by counterpropagating short pulse trains. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 115305	1.3	12
22	Magneto-optical CPT resonances in rubidium excited by femtosecond laser comb 2010 ,		1
21	Dark resonances in the field of frequency-shifted feedback laser radiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 215402	1.3	4
20	Integrated automatic control system for blast-furnace production. <i>Steel in Translation</i> , 2009 , 39, 837-841	0.4	

19	Simple mechanical analogs of rapid adiabatic passage in atomic physics. <i>American Journal of Physics</i> , 2009 , 77, 1183-1194	0.7	19
18	Stimulated radiation pressure acting on an atom nonadiabatically interacting with the field of counterpropagating frequency-modulated waves. <i>JETP Letters</i> , 2008 , 86, 756-760	1.2	2
17	Forces exerted on atoms by stochastic laser fields. <i>Optics Communications</i> , 2006 , 268, 121-132	2	2
16	Coherent momentum transfer due to interaction between three-level atoms and counterpropagating laser pulses. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 100, 242-255	1	2
15	Stimulated Raman adiabatic passage in fields with stochastic amplitudes. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 101, 788-794	1	3
14	Two-photon excitation of the metastable 2s state of hydrogen assisted by laser-induced chirped Stark shifts and continuum structure. <i>Physical Review A</i> , 2005 , 71,	2.6	14
13	Stimulated Raman adiabatic passage with partially coherent laser fields. <i>Physical Review A</i> , 2002 , 65,	2.6	32
12	Interference of polarized beams near the isotropic point of the CdS crystal. <i>Semiconductors</i> , 2001 , 35, 1147-1150	0.7	1
11	Strong optical forces in frequency-modulated light. <i>Physical Review A</i> , 2001 , 64,	2.6	13
10	Scattering of atoms in a bichromatic field of oppositely propagating light pulses. <i>Journal of Experimental and Theoretical Physics</i> , 2000 , 90, 407-414	1	8
9	Scattering of atoms in the field of counterpropagating light waves. Effect of initial conditions. <i>Journal of Experimental and Theoretical Physics</i> , 1998 , 86, 312-317	1	
8	Adiabatic population transfer in the three-level system: two-photon lineshape. <i>Optics Communications</i> , 1997 , 140, 231-236	2	29
7	Asymmetry of the scattering amplitude of atoms in the field of short counterpropagating light pulses. <i>JETP Letters</i> , 1996 , 63, 968-972	1.2	5
6	Landau-Zener transitions and population transfer in a three-level system driven by two delayed laser pulses. <i>Optics Communications</i> , 1994 , 109, 462-466	2	28
5	Emission of surface electromagnetic waves in the case of resonance tunneling of electrons. <i>Soviet Journal of Quantum Electronics</i> , 1987 , 17, 1348-1352		4
4	Harmonic generation in metal-barrier-metal junctions. <i>Soviet Journal of Quantum Electronics</i> , 1981 , 11, 237-239		2
3	New methods of isotope separation. <i>Uspekhi Fizicheskikh Nauk</i> , 1977 , 20, 209-225		13
2	Laser stimulated chemical reactions and isotope separation. <i>Soviet Journal of Quantum Electronics</i> , 1975 , 5, 510-514		8

1 Rates of chemical reactions stimulated by laser radiation. *Soviet Journal of Quantum Electronics*,
1975, 5, 883-885

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