Oleg N Prudnikov

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45
papers

282
papers

7
h-index

59
ext. papers

284
papers

1.3
avg, IF

16
g-index

2.66
L-index

#	Paper	IF	Citations
45	Two-dimensional photonic crystal color filter development. <i>Optics Express</i> , 2009 , 17, 8621-9	3.3	81
44	High angular tolerant color filter using subwavelength grating. Applied Physics Letters, 2009, 94, 21310)43.4	58
43	Steady state of a low-density ensemble of atoms in a monochromatic field taking into account recoil effects. <i>Journal of Experimental and Theoretical Physics</i> , 2011 , 112, 939-945	1	16
42	Kinetics of atoms in the field produced by elliptically polarized waves. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 98, 438-454	1	13
41	Sub-Doppler laser cooling on combined optical transitions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 909	1.7	11
40	The light pressure force and the friction and diffusion coefficients for atoms in a resonant nonuniformly polarized laser field. <i>Journal of Experimental and Theoretical Physics</i> , 2003 , 96, 383-401	1	10
39	Tunable frequency-stabilised laser for studying the cooling dynamics of Rb atoms in a magnetooptical trap. <i>Quantum Electronics</i> , 2004 , 34, 341-347	1.8	9
38	Quantum treatment of two-stage sub-Doppler laser cooling of magnesium atoms. <i>Physical Review A</i> , 2015 , 92,	2.6	7
37	Dissipative light mask generated by a nonuniformly polarized field for atomic lithography. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 104, 839-845	1	7
36	Two-temperature momentum distribution in a thulium magneto-optical trap. <i>Physical Review A</i> , 2017 , 96,	2.6	6
35	New approaches in deep laser cooling of magnesium atoms for quantum metrology. <i>Laser Physics</i> , 2016 , 26, 095503	1.2	6
34	Magneto-optical trap formed by elliptically polarised light waves for Mg atoms. <i>Quantum Electronics</i> , 2016 , 46, 661-667	1.8	5
33	Basis of polarization-dressed states of an atom in an elliptically polarized resonant field. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 99, 1137-1149	1	5
32	New friction force due to spontaneous light pressure. <i>JETP Letters</i> , 1999 , 70, 443-449	1.2	5
31	Laser cooling of 171Yb+ ions in a frequency-modulated field. <i>Quantum Electronics</i> , 2017 , 47, 806-811	1.8	4
30	Spectroscopy of the quadrupole clock transition of ytterbium-171 ions for optical frequency standard development. <i>Quantum Electronics</i> , 2019 , 49, 412-417	1.8	4
29	Anomalous spatial concentration of atoms in the field of a standing light wave. <i>JETP Letters</i> , 2012 , 95, 399-402	1.2	4

(2016-2015)

28	Three-dimensional theory of the magneto-optical trap. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 120, 587-594	1	4
27	Quasiclassical laser cooling in an intense standing wave. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004 , 6, 336-344		4
26	Kinetics of atoms in an elliptically polarized standing wave. <i>Journal of Experimental and Theoretical Physics</i> , 1999 , 88, 433-440	1	4
25	Magneto-optical force in a resonant field of elliptically polarized light waves. <i>Physical Review A</i> , 2008 , 77,	2.6	3
24	Polarization-gradient laser cooling as a way to create strongly localized structures for atom lithography. <i>Physical Review A</i> , 2007 , 75,	2.6	3
23	Scaling law in laser cooling on narrow-line optical transitions. <i>Physical Review A</i> , 2019 , 99,	2.6	2
22	Kinetics of atoms in a bichromatic field formed by elliptically polarised waves. <i>Quantum Electronics</i> , 2017 , 47, 438-445	1.8	2
21	Essentially nonequilibrium steady state of atoms in an optical field. <i>JETP Letters</i> , 2015 , 102, 576-580	1.2	2
20	Laser cooling limits in fields with a polarisation gradient of atoms with different recoil energies. <i>Quantum Electronics</i> , 2020 , 50, 939-946	1.8	2
19	Kinetics of atoms in a bichromatic field. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 222-	-231	1
18	Rectification of the dipole force in a monochromatic field created by elliptically polarized waves. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 93, 63-70	1	1
17	ItIIStratonovich dilemma in the problem of laser cooling of atoms: limits of applicability of the semiclassical approximation. <i>Quantum Electronics</i> , 2022 , 52, 130-136	1.8	1
16	Combined atomic clock with blackbody-radiation-shift-induced instability below 10¶9 under natural environment conditions. <i>New Journal of Physics</i> , 2021 , 23, 023032	2.9	1
15	Quantum treatment of laser cooling on weak transitions: multipeaks and bimodal momentum distributions. <i>Journal of Physics: Conference Series</i> , 2018 , 951, 012004	0.3	1
14	Atom interferometry with ultracold Mg atoms: frequency standard and quantum sensors. <i>Journal of Physics: Conference Series</i> , 2020 , 1508, 012002	0.3	0
13	Laser pulse shape dependence of poly-Si crystallization. <i>AIP Advances</i> , 2017 , 7, 125102	1.5	O
12	Magnetooptical force in the resonance field formed by elliptically polarized light waves. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 106, 839-845	1	O
11	Quantum theory of laser cooling: Statistical description of the process dynamics. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 123, 1-11	1	O

10	Guided-mode waves structure of electric and magnetic dipole resonances in a metamaterial slab. <i>Optics Express</i> , 2021 , 29, 30610-30624	3.3	О
9	Deep laser cooling of strontium atoms on 1SO-3P0transition. <i>Journal of Physics: Conference Series</i> , 2017 , 793, 012011	0.3	
8	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	
7	An optical frequency standard based on ultracold magnesium atoms. <i>Journal of Physics: Conference Series</i> , 2017 , 793, 012008	0.3	
6	Studying the possibility of deep laser cooling of 24Mg atoms in an optical lattice: Two-level quantum model. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1420-1428	0.4	
5	Steady-state light-induced forces in atomic nanolithography. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 101, 584-596	1	
4	Magneto-optical trap for 6Li atoms formed by elliptically polarised light waves. <i>Quantum Electronics</i> , 2022 , 52, 137-143	1.8	
3	Guided-mode resonance in periodic surface textures on Si thin films induced by nanosecond laser irradiation. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021 , 45, 100923	2.6	
2	Quantum theory of the laser cooling of two-level atoms in the field of a standing light wave: A statistical description of dynamics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 55-59	0.4	
1	Study of laser cooling in deep optical lattice: two-level quantum model. <i>Journal of Physics:</i> Conference Series, 2018 , 951, 012019	0.3	