

Vyacheslav N Gorshkov

List of Publications by Citations

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69
papers

1,047
citations

14
h-index

31
g-index

76
ext. papers

1,158
ext. citations

3
avg, IF

4.14
L-index

#	Paper	IF	Citations
69	Topological charge and angular momentum of light beams carrying optical vortices. <i>Physical Review A</i> , 1997 , 56, 4064-4075	2.6	372
68	Model of Controlled Synthesis of Uniform Colloid Particles: Cadmium Sulfide. <i>Langmuir</i> , 2003 , 19, 10679-10683	4.3	39
67	Formation of monodispersed cadmium sulfide particles by aggregation of nanosize precursors. <i>Advances in Colloid and Interface Science</i> , 2003 , 100-102, 169-183	14.3	54
66	Beam wandering in the atmosphere: the effect of partial coherence. <i>Physical Review E</i> , 2007 , 76, 056606	2.4	50
65	Semiclassical Monte-Carlo approach for modelling non-adiabatic dynamics in extended molecules. <i>Nature Communications</i> , 2013 , 4, 2144	17.4	42
64	Shape selection in diffusive growth of colloids and nanoparticles. <i>Langmuir</i> , 2009 , 25, 7940-53	4	39
63	Suppression of intensity fluctuations in free space high-speed optical communication based on spectral encoding of a partially coherent beam. <i>Optics Communications</i> , 2007 , 280, 264-270	2	39
62	Wavefront motion in the vicinity of a phase dislocation: Optical vortex. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2000 , 88, 260-265	0.7	30
61	Models of synthesis of uniform colloids and nanocrystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 43, 1-12	3	27
60	Liquid metal microdroplet source for deposition purposes. <i>Applied Surface Science</i> , 1993 , 65-66, 1-12	6.7	21
59	Morphology of nanoclusters and nanopillars formed in nonequilibrium surface growth for catalysis applications. <i>Langmuir</i> , 2011 , 27, 8554-61	4	20
58	Kinetic Monte Carlo model of breakup of nanowires into chains of nanoparticles. <i>Journal of Applied Physics</i> , 2017 , 122, 204301	2.5	18
57	Semiclassical Monte Carlo: a first principles approach to non-adiabatic molecular dynamics. <i>Journal of Chemical Physics</i> , 2014 , 141, 184101	3.9	16
56	Scintillation reduction for laser beams propagating through turbulent atmosphere. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 055402	1.3	16
55	Microdroplet emission and instabilities in liquid-metal ion sources. <i>Surface Science</i> , 1992 , 266, 185-190	1.8	14
54	Non-adiabatic molecular dynamics by accelerated semiclassical Monte Carlo. <i>Journal of Chemical Physics</i> , 2015 , 143, 014115	3.9	12
53	Formation of nanoclusters and nanopillars in nonequilibrium surface growth for catalysis applications: growth by diffusional transport of matter in solution synthesis. <i>Heat and Mass Transfer</i> , 2014 , 50, 383-392	2.2	11

52	Diffraction and self-restoration of a severely screened vortex beam 2001 ,		11
51	Permanent magnet plasma lens. <i>Review of Scientific Instruments</i> , 2002 , 73, 1001-1003	1.7	11
50	Modeling of Growth Morphology of CoreShell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24959-24966	3.8	9
49	Lifetimes of excited levels of Nd I and Nd II. Oscillator strengths of the spectral lines of Nd I. <i>Astrofizika</i> , 1982 , 17, 437-441		9
48	Nonequilibrium kinetic modeling of sintering of a layer of dispersed nanocrystals. <i>CrystEngComm</i> , 2014 , 16, 10395-10409	3.3	8
47	Mechanisms of interparticle bridging in sintering of dispersed nanoparticles. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2014 , 2, 91-99		8
46	Kinetics modeling of nanoparticle growth on and evaporation off nanotubes. <i>Journal of Applied Physics</i> , 2017 , 121, 014301	2.5	7
45	Reduction of laser intensity scintillations in turbulent atmospheres using time averaging of a partially coherent beam. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 225403	1.3	7
44	Diversity of anisotropy effects in the breakup of metallic FCC nanowires into ordered nanodroplet chains. <i>CrystEngComm</i> , 2020 , 22, 2601-2611	3.3	6
43	Dynamics of Anisotropic Break-Up in Nanowires of FCC Lattice Structure. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900118	3.5	6
42	Nonequilibrium kinetic study of sintering of dispersed nanoparticles. <i>CrystEngComm</i> , 2013 , 15, 7177	3.3	6
41	Spin diffusion and relaxation in a nonuniform magnetic field. <i>Physical Review B</i> , 2005 , 71,	3.3	6
40	Radiative lifetimes of excited states and oscillator strengths of spectral lines of some lanthanide atoms and ions (Review). <i>Journal of Applied Spectroscopy</i> , 1984 , 41, 1091-1104	0.7	6
39	Instabilities of electron-hole plasma under impact ionization and microwave emission. <i>Solid State Communications</i> , 1979 , 30, 153-156	1.6	6
38	Lattice percolation approach to 3D modeling of tissue aging. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 462, 207-216	3.3	6
37	Lattice percolation approach to numerical modelling of tissue aging. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2016 , 31, 1-19	1	5
36	Optimization and new applications of a magnetic trap for ultra-cold neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 592, 385-392	1.2	5
35	Random spin signal in magnetic resonance force microscopy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 318, 584-591	2.3	5

34	Restructuring and breakup of nanowires with the diamond cubic crystal structure into nanoparticles. <i>Materials Today Communications</i> , 2020 , 22, 100727	2.5	5
33	Phononic dispersion in anisotropic pseudo-fractal hyper-lattices. <i>Materials and Design</i> , 2019 , 164, 107568	3.1	4
32	Modeling and simulations of a single-spin measurement using MRFM. <i>IEEE Nanotechnology Magazine</i> , 2005 , 4, 14-20	2.6	4
31	Synthesis of optical vortices by technique of a phase wedge 2002 ,		4
30	Bose-Einstein condensate of ultra-light axions as a candidate for the dark matter galaxy halos. <i>Modern Physics Letters A</i> , 2019 , 34, 1950361	1.3	3
29	Scintillation reduction for combined Gaussian-vortex beam propagating through turbulent atmosphere 2011 ,		3
28	Reduction of magnetic noise in magnetic resonance force microscopy. <i>Physical Review B</i> , 2004 , 69,	3.3	3
27	Numerical simulations of a high-current plasma lens. <i>Plasma Physics Reports</i> , 2003 , 29, 874-882	1.2	3
26	The dynamical effects in liquid-metal ion sources. <i>Applied Surface Science</i> , 1995 , 87-88, 112-116	6.7	3
25	Combined breakdown in bismuth-antimony semiconductor alloys. <i>Solid State Communications</i> , 1983 , 46, 193-196	1.6	3
24	Plasma self-oscillations in semiconductors within submillimetre frequency range. <i>Solid State Communications</i> , 1980 , 34, 555-557	1.6	3
23	Heterogeneous and Homogeneous Nucleation in the Synthesis of Quasi-One-Dimensional Periodic Core-Shell Nanostructures. <i>Crystal Growth and Design</i> , 2021 , 21, 1604-1616	3.5	3
22	Roughening transition as a driving factor in the formation of self-ordered one-dimensional nanostructures. <i>CrystEngComm</i> , 2021 , 23, 1836-1848	3.3	3
21	Magnetic resonance force microscopy with a paramagnetic probe. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1445-1448	2.3	2
20	Topology of optical vortices spontaneous birth 2002 , 4607, 13		2
19	Radiation damping for speeding-up NMR applications. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2012 , 40A, 179-185	0.6	1
18	Process of compensation of the space charge of a negative ion beam in a gas. <i>Plasma Physics Reports</i> , 2007 , 33, 1032-1037	1.2	1
17	Regular and random magnetic resonance force microscopy signal with a cantilever oscillating parallel to a sample surface. <i>Journal of Applied Physics</i> , 2004 , 96, 5081-5084	2.5	1

16	Space charge lens for focusing negative ion beam: Theory and experiment. <i>Review of Scientific Instruments</i> , 2004 , 75, 1774-1776	1.7	1
15	The low-field permanent magnet electrostatic plasma lens. <i>Review of Scientific Instruments</i> , 2004 , 75, 1662-1664	1.7	1
14	Microdroplet emission on liquid metal surface at the development of Rayleigh instabilities □ applications in cosmos. <i>Applied Surface Science</i> , 1996 , 94-95, 171-176	6.7	1
13	On the coherent self-oscillation mechanism under transverse breakdown in n-InSb (T = 77 K). <i>Solid State Communications</i> , 1985 , 56, 399-402	1.6	1
12	On the nature of oscillations of Z-pinch in n-InSb under impact ionization. <i>Solid State Communications</i> , 1976 , 19, 563-567	1.6	1
11	Two-component axionic dark matter halos. <i>Modern Physics Letters A</i> , 2020 , 35, 2050227	1.3	1
10	Rate-equation modelling and ensemble approach to extraction of parameters for viral infection-induced cell apoptosis and necrosis. <i>Journal of Chemical Physics</i> , 2016 , 145, 094103	3.9	1
9	Electron spin relaxation induced by a cantilever when the spin frequency matches the cantilever frequency. <i>Journal of Applied Physics</i> , 2021 , 130, 144402	2.5	0
8	Ground states of Heisenberg spin chains via quantum annealing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 369, 151-156	2.3	
7	Spin diffusion and relaxation in solid state spin quantum computer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 352, 107-114	2.3	
6	Space-charge lens for focusing a negative-ion beam. <i>Plasma Physics Reports</i> , 2003 , 29, 480-484	1.2	
5	Periodic structures on the surface of liquid metal electrodes in contact with plasma. <i>Journal of Engineering Physics and Thermophysics</i> , 1992 , 62, 489-491	0.6	
4	Determination of atom concentrations by resonant radiation capture. <i>Journal of Applied Spectroscopy</i> , 1986 , 45, 671-675	0.7	
3	Z-pinch dynamics under the combined breakdown in bismuth-antimony alloys. <i>Solid State Communications</i> , 1985 , 53, 259-262	1.6	
2	Grantmakher-Kaner effect in strong magnetic fields. <i>Solid State Communications</i> , 1978 , 27, 595-598	1.6	
1	Axionic dark matter halos in the gravitational field of baryonic matter. <i>Modern Physics Letters A</i> , 2020 , 35, 2050248	1.3	