

Peter Moroshkin

List of Publications by Citations

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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.

52
papers

541
citations

14
h-index

20
g-index

58
ext. papers

589
ext. citations

3.5
avg, IF

3.58
L-index

#	Paper	IF	Citations
52	Atomic and molecular defects in solid 4He. <i>Physics Reports</i> , 2008 , 469, 1-57	27.7	52
51	Nanowire formation by gold nano-fragment coalescence on quantized vortices in He II. <i>Europhysics Letters</i> , 2010 , 90, 34002	1.6	51
50	Formation of Metallic Nanowires by Laser Ablation in Liquid Helium. <i>Journal of Low Temperature Physics</i> , 2011 , 165, 166-176	1.3	32
49	Reconciliation of experimental and theoretical electric tensor polarizabilities of the cesium ground state. <i>Europhysics Letters</i> , 2006 , 76, 1074-1080	1.6	24
48	Discovery of dumbbell-shaped Cs*He _n exciplexes in solid 4He. <i>Physical Review Letters</i> , 2005 , 94, 063001	7.4	24
47	Spectroscopy of atomic and molecular defects in solid He ₄ using optical, microwave, radio frequency, and static magnetic and electric fields (Review). <i>Low Temperature Physics</i> , 2006 , 32, 981-998	0.7	24
46	Impurity-stabilized solid 4He below the solidification pressure of pure helium. <i>Nature Physics</i> , 2007 , 3, 786-789	16.2	21
45	Saturated absorption spectroscopy: Elimination of crossover resonances with the use of a nanocell. <i>Laser Physics</i> , 2008 , 18, 749-755	1.2	20
44	Cs*He(n) exciplexes in solid 4He. <i>Journal of Chemical Physics</i> , 2006 , 124, 024511	3.9	20
43	Spectroscopy of the copper dimer in normal fluid, superfluid, and solid (4)He. <i>Journal of Chemical Physics</i> , 2010 , 133, 154508	3.9	17
42	Rb*He _n exciplexes in solid He ₄ . <i>Physical Review A</i> , 2006 , 74,	2.6	17
41	6S _{1/2} →1P ₁ transition of Cs atoms in cubic and hexagonal solid He ₄ . <i>Physical Review A</i> , 2007 , 76,	2.6	16
40	Metallic nanowires and mesoscopic networks on a free surface of superfluid helium and charge-shuttling across the liquid-gas interface. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26444-26455	2.6	15
39	Positive ion induced solidification of 4He. <i>Physical Review Letters</i> , 2009 , 102, 115301	7.4	14
38	Kennard-Stepanov relation connecting absorption and emission spectra in an atomic gas. <i>Physical Review Letters</i> , 2014 , 113, 063002	7.4	13
37	Spectroscopy of barium atoms in liquid and solid helium matrices. <i>Physical Review A</i> , 2011 , 84,	2.6	11
36	Coherent interaction of laser pulses in a resonant optically dense extended medium under the regime of strong field-matter coupling. <i>Physical Review A</i> , 2004 , 69,	2.6	11

35	Taylor cone and electrospraying at a free surface of superfluid helium charged from below. <i>Physical Review E</i> , 2017 , 95, 053110	2.4	10
34	Phonon generation in condensed 4 He by laser-excited atomic bubbles. <i>Europhysics Letters</i> , 2011 , 96, 26002	1.6	10
33	Laser ablation and spectroscopy of copper in liquid and solid 4He. <i>Physical Review A</i> , 2011 , 84,	2.6	9
32	Spectroscopy of Cs2, RbCs, and Rb2 in solid 4He. <i>Journal of Chemical Physics</i> , 2010 , 133, 174510	3.9	9
31	Measurement of the forbidden electric tensor polarizability of Cs atoms trapped in solid He4. <i>Physical Review A</i> , 2007 , 75,	2.6	9
30	Dynamics of the Vortex-Particle Complexes Bound to the Free Surface of Superfluid Helium. <i>Physical Review Letters</i> , 2019 , 122, 174502	7.4	8
29	Motion of metallic microparticles in superfluid helium in the presence of space charge. <i>Physics of Fluids</i> , 2017 , 29, 047106	4.4	7
28	Laser spectroscopy of phonons and rotons in superfluid helium doped with Dy atoms. <i>Physical Review B</i> , 2018 , 97,	3.3	6
27	Laser Spectroscopy of Ba+ Ions in Liquid He: Towards the Detection of Majorana Fermion Surface State in Superfluid 3He-B. <i>Journal of Low Temperature Physics</i> , 2014 , 175, 63-69	1.3	6
26	Vibronic Transitions of Atomic Bubbles in Condensed 4He. <i>Journal of Low Temperature Physics</i> , 2011 , 162, 710-717	1.3	6
25	Calculation of the forbidden electric tensor polarizabilities of free Cs atoms and of Cs atoms trapped in a solid He4 matrix. <i>Physical Review A</i> , 2008 , 77,	2.6	6
24	Lifetime studies of Cs*HeN exciplexes in solid He4. <i>Physical Review A</i> , 2008 , 78,	2.6	6
23	Spectroscopy of Rb2 dimers in solid He4. <i>Physical Review A</i> , 2006 , 74,	2.6	6
22	Reconciliation of experimental and theoretical electric tensor polarizabilities of the cesium ground state. <i>Europhysics Letters</i> , 2007 , 78, 69901	1.6	5
21	Nonstationary parametric amplification of polychromatic radiation propagating in an extended absorbing resonant medium. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2003 , 94, 92-98	0.7	5
20	Resonant nonstationary amplification of polychromatic laser pulses and conical emission in an optically dense ensemble of neon metastable atoms. <i>Physical Review A</i> , 2003 , 68,	2.6	5
19	Zero-phonon lines in the spectra of dysprosium atoms in superfluid helium. <i>Physical Review B</i> , 2019 , 99,	3.3	4
18	Bound-bound transitions in the emission spectra of Ba+-He excimer. <i>Physical Review A</i> , 2016 , 93,	2.6	4

17	Spectroscopy of alkali-metal atoms in dense supercritical 4He at low temperatures. <i>Physical Review A</i> , 2013 , 87,	2.6	4
16	Spectroscopy of gold atoms isolated in liquid and solid 4He matrices. <i>Journal of Chemical Physics</i> , 2013 , 139, 104307	3.9	4
15	Spectroscopy of nonspherical atomic bubbles in solid helium. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 7169-79	2.8	4
14	Lifetime of the Cs 6P _{1/2} state in bcc and hcp solid 4He. <i>European Physical Journal D</i> , 2008 , 46, 9-14	1.3	4
13	Spectroscopy of Ba ⁺ ions in liquid 4He. <i>AIP Advances</i> , 2018 , 8, 015328	1.5	4
12	Parametric collective phenomena during the propagation of polychromatic laser pulses in an optically dense resonant medium without population inversion. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2002 , 93, 955-962	0.7	3
11	Dynamics of Fine Particles Due to Quantized Vortices on the Surface of Superfluid (⁴ He). <i>Journal of Low Temperature Physics</i> , 2019 , 196, 190-196	1.3	3
10	Imaging and time-resolved study of laser-induced fluorescence of dysprosium atoms injected into superfluid helium. <i>Physical Review B</i> , 2020 , 101,	3.3	2
9	Atomic bubbles in impurity-stabilized solid He ₄ . <i>Low Temperature Physics</i> , 2009 , 35, 299-302	0.7	2
8	Laser-induced formation and spectroscopy of Cs*He _n exciplexes in solid 4He 2006 ,		2
7	Rubidium spectroscopy at high-pressure buffer gas conditions: detailed balance in the optical interaction of an absorber coupled to a reservoir. <i>Physica Scripta</i> , 2018 , 93, 124006	2.6	2
6	Trapping of metallic nanoparticles under the free surface of superfluid helium in a static electric field. <i>Physics of Fluids</i> , 2019 , 31, 077104	4.4	1
5	Spectroscopy of Mn atoms isolated in solid He. <i>Journal of Chemical Physics</i> , 2014 , 140, 214314	3.9	1
4	Laser-induced collective interactions under propagation of polychromatic radiation pulse through resonant optically dense extended medium without population inversion 2002 ,		1
3	Perturbations of a Free Surface of Superfluid Helium by the Ion Wind Produced by a Corona Discharge Above the Liquid. <i>Journal of Low Temperature Physics</i> , 2019 , 195, 327-335	1.3	1
2	Optical rectification by ratchet transport in an asymmetric grating. <i>AIP Advances</i> , 2021 , 11, 115006	1.5	0
1	Critically Charged Superfluid 4He Surface in Inhomogeneous Electric Fields. <i>Journal of Low Temperature Physics</i> , 2021 , 202, 431-443	1.3	