

# Peter Moroshkin

## 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.

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 | Optical rectification by ratchet transport in an asymmetric grating. <i>AIP Advances</i> , <b>2021</b> , 11, 115006  | 1.5 | 0         |
| 51 | Critically Charged Superfluid 4He Surface in Inhomogeneous Electric Fields. <i>Journal of Low Temperature Physics</i> , <b>2021</b> , 202, 431-443   | 1.3 |           |
| 50 | Imaging and time-resolved study of laser-induced fluorescence of dysprosium atoms injected into superfluid helium. <i>Physical Review B</i> , <b>2020</b> , 101,   | 3.3 | 2         |
| 49 | Dynamics of the Vortex-Particle Complexes Bound to the Free Surface of Superfluid Helium. <i>Physical Review Letters</i> , <b>2019</b> , 122, 174502   | 7.4 | 8         |
| 48 | Zero-phonon lines in the spectra of dysprosium atoms in superfluid helium. <i>Physical Review B</i> , <b>2019</b> , 99,  | 3.3 | 4         |
| 47 | Trapping of metallic nanoparticles under the free surface of superfluid helium in a static electric field. <i>Physics of Fluids</i> , <b>2019</b> , 31, 077104   | 4.4 | 1         |
| 46 | Dynamics of Fine Particles Due to Quantized Vortices on the Surface of Superfluid ( $^4\text{He}$ ). <i>Journal of Low Temperature Physics</i> , <b>2019</b> , 196, 190-196  | 1.3 | 3         |
| 45 | 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> , <b>2019</b> , 195, 327-335                       | 1.3 | 1         |
| 44 | Laser spectroscopy of phonons and rotons in superfluid helium doped with Dy atoms. <i>Physical Review B</i> , <b>2018</b> , 97,  | 3.3 | 6         |
| 43 | 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> , <b>2018</b> , 93, 124006                 | 2.6 | 2         |
| 42 | Spectroscopy of Ba <sup>+</sup> ions in liquid 4He. <i>AIP Advances</i> , <b>2018</b> , 8, 015328  | 1.5 | 4         |
| 41 | Motion of metallic microparticles in superfluid helium in the presence of space charge. <i>Physics of Fluids</i> , <b>2017</b> , 29, 047106  | 4.4 | 7         |
| 40 | Taylor cone and electro spraying at a free surface of superfluid helium charged from below. <i>Physical Review E</i> , <b>2017</b> , 95, 053110  | 2.4 | 10        |
| 39 | Bound-bound transitions in the emission spectra of Ba <sup>+</sup> -He excimer. <i>Physical Review A</i> , <b>2016</b> , 93,   | 2.6 | 4         |
| 38 | 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> , <b>2016</b> , 18, 26444-26455 | 2.6 | 15        |
| 37 | Laser Spectroscopy of Ba <sup>+</sup> Ions in Liquid He: Towards the Detection of Majorana Fermion Surface State in Superfluid 3He-B. <i>Journal of Low Temperature Physics</i> , <b>2014</b> , 175, 63-69         | 1.3 | 6         |
| 36 | Spectroscopy of Mn atoms isolated in solid He. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 214314  | 3.9 | 1         |

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| 35 | Kennard-Stepanov relation connecting absorption and emission spectra in an atomic gas. <i>Physical Review Letters</i> , <b>2014</b> , 113, 063002                                      | 7.4  | 13 |
| 34 | Spectroscopy of alkali-metal atoms in dense supercritical 4He at low temperatures. <i>Physical Review A</i> , <b>2013</b> , 87,  | 2.6  | 4  |
| 33 | Spectroscopy of gold atoms isolated in liquid and solid 4He matrices. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 104307   | 3.9  | 4  |
| 32 | Spectroscopy of nonspherical atomic bubbles in solid helium. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 7169-79   | 2.8  | 4  |
| 31 | Laser ablation and spectroscopy of copper in liquid and solid 4He. <i>Physical Review A</i> , <b>2011</b> , 84,  | 2.6  | 9  |
| 30 | Vibronic Transitions of Atomic Bubbles in Condensed 4He. <i>Journal of Low Temperature Physics</i> , <b>2011</b> , 162, 710-717  | 1.3  | 6  |
| 29 | Formation of Metallic Nanowires by Laser Ablation in Liquid Helium. <i>Journal of Low Temperature Physics</i> , <b>2011</b> , 165, 166-176   | 1.3  | 32 |
| 28 | Spectroscopy of barium atoms in liquid and solid helium matrices. <i>Physical Review A</i> , <b>2011</b> , 84,   | 2.6  | 11 |
| 27 | Phonon generation in condensed 4 He by laser-excited atomic bubbles. <i>Europhysics Letters</i> , <b>2011</b> , 96, 26002  | 1.6  | 10 |
| 26 | Spectroscopy of the copper dimer in normal fluid, superfluid, and solid (4)He. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 154508  | 3.9  | 17 |
| 25 | Nanowire formation by gold nano-fragment coalescence on quantized vortices in He II. <i>Europhysics Letters</i> , <b>2010</b> , 90, 34002  | 1.6  | 51 |
| 24 | Spectroscopy of Cs <sub>2</sub> , RbCs, and Rb <sub>2</sub> in solid 4He. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 174510   | 3.9  | 9  |
| 23 | Atomic bubbles in impurity-stabilized solid He <sub>4</sub> . <i>Low Temperature Physics</i> , <b>2009</b> , 35, 299-302   | 0.7  | 2  |
| 22 | Positive ion induced solidification of 4He. <i>Physical Review Letters</i> , <b>2009</b> , 102, 115301   | 7.4  | 14 |
| 21 | Calculation of the forbidden electric tensor polarizabilities of free Cs atoms and of Cs atoms trapped in a solid He <sub>4</sub> matrix. <i>Physical Review A</i> , <b>2008</b> , 77, | 2.6  | 6  |
| 20 | Lifetime studies of Cs*He <sub>N</sub> exciplexes in solid He <sub>4</sub> . <i>Physical Review A</i> , <b>2008</b> , 78,  | 2.6  | 6  |
| 19 | Atomic and molecular defects in solid 4He. <i>Physics Reports</i> , <b>2008</b> , 469, 1-57  | 27.7 | 52 |
| 18 | Lifetime of the Cs 6P <sub>1/2</sub> state in bcc and hcp solid 4He. <i>European Physical Journal D</i> , <b>2008</b> , 46, 9-14   | 1.3  | 4  |

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| 17 | Saturated absorption spectroscopy: Elimination of crossover resonances with the use of a nanocell. <i>Laser Physics</i> , <b>2008</b> , 18, 749-755  | 1.2  | 20 |
| 16 | Impurity-stabilized solid $^4\text{He}$ below the solidification pressure of pure helium. <i>Nature Physics</i> , <b>2007</b> , 3, 786-789   | 16.2 | 21 |
| 15 | $6S1\text{P}1\text{P}1\text{P}1$ transition of Cs atoms in cubic and hexagonal solid $\text{He}_4$ . <i>Physical Review A</i> , <b>2007</b> , 76,  | 2.6  | 16 |
| 14 | Reconciliation of experimental and theoretical electric tensor polarizabilities of the cesium ground state. <i>Europhysics Letters</i> , <b>2007</b> , 78, 69901   | 1.6  | 5  |
| 13 | Measurement of the forbidden electric tensor polarizability of Cs atoms trapped in solid $\text{He}_4$ . <i>Physical Review A</i> , <b>2007</b> , 75,  | 2.6  | 9  |
| 12 | Reconciliation of experimental and theoretical electric tensor polarizabilities of the cesium ground state. <i>Europhysics Letters</i> , <b>2006</b> , 76, 1074-1080   | 1.6  | 24 |
| 11 | Laser-induced formation and spectroscopy of $\text{Cs}^*\text{He}_n$ exciplexes in solid $^4\text{He}$ <b>2006</b> ,   |      | 2  |
| 10 | $\text{Cs}^*\text{He}(n)$ exciplexes in solid $^4\text{He}$ . <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 024511   | 3.9  | 20 |
| 9  | Spectroscopy of $\text{Rb}_2$ dimers in solid $\text{He}_4$ . <i>Physical Review A</i> , <b>2006</b> , 74,   | 2.6  | 6  |
| 8  | $\text{Rb}^*\text{He}_n$ exciplexes in solid $\text{He}_4$ . <i>Physical Review A</i> , <b>2006</b> , 74,  | 2.6  | 17 |
| 7  | Spectroscopy of atomic and molecular defects in solid $\text{He}_4$ using optical, microwave, radio frequency, and static magnetic and electric fields (Review). <i>Low Temperature Physics</i> , <b>2006</b> , 32, 981-998  | 0.7  | 24 |
| 6  | Discovery of dumbbell-shaped $\text{Cs}^*\text{He}_n$ exciplexes in solid $^4\text{He}$ . <i>Physical Review Letters</i> , <b>2005</b> , 94, 063001  | 7.4  | 24 |
| 5  | 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> , <b>2004</b> , 69,  | 2.6  | 11 |
| 4  | Nonstationary parametric amplification of polychromatic radiation propagating in an extended absorbing resonant medium. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2003</b> , 94, 92-98                                    | 0.7  | 5  |
| 3  | Resonant nonstationary amplification of polychromatic laser pulses and conical emission in an optically dense ensemble of neon metastable atoms. <i>Physical Review A</i> , <b>2003</b> , 68,  | 2.6  | 5  |
| 2  | 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> , <b>2002</b> , 93, 955-962 | 0.7  | 3  |
| 1  | Laser-induced collective interactions under propagation of polychromatic radiation pulse through resonant optically dense extended medium without population inversion <b>2002</b> ,   |      | 1  |