

Vadim Kovalev

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.

68

papers

382

citations

11

h-index

14

g-index

80

ext. papers

491

ext. citations

2.4

avg, IF

4.16

L-index

#	Paper	IF	Citations
68	Magnetoexcitons in type-II quantum dots. <i>JETP Letters</i> , 1998 , 68, 669-672	1.2	50
67	Magnetoplasmon Fano resonance in Bose-Fermi mixtures. <i>Physical Review B</i> , 2016 , 94,	3.3	18
66	Valley Acoustoelectric Effect. <i>Physical Review Letters</i> , 2019 , 122, 256801	7.4	14
65	Solitons in semiconductor microstructures with a two-dimensional electron gas. <i>JETP Letters</i> , 1999 , 70, 488-490	1.2	14
64	Acousto-exciton interaction in a gas of 2D indirect dipolar excitons in the presence of disorder. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 122, 499-508	1	13
63	Photon drag of a Bose-Einstein condensate. <i>Physical Review B</i> , 2018 , 98,	3.3	12
62	Shedding light on topological superconductors. <i>Physical Review B</i> , 2018 , 98,	3.3	11
61	Response of a Bose-Einstein condensate of dipole excitons to static and dynamic perturbations. <i>JETP Letters</i> , 2014 , 99, 540-551	1.2	11
60	Modulation of the exciton density in a hybrid electron-exciton system. <i>JETP Letters</i> , 2011 , 94, 560-564	1.2	11
59	Screening of static perturbation in a system of dipole excitons. <i>JETP Letters</i> , 2010 , 92, 185-188	1.2	11
58	Magnetopolaron state of particles in quantum rings of finite width. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 101, 686-692	1	11
57	Lifetime of quasiparticles in a hybrid electron-exciton system. <i>JETP Letters</i> , 2013 , 98, 331-334	1.2	10
56	Self-induced acoustic transparency in semiconductor quantum films. <i>Physical Review Letters</i> , 2001 , 87, 226803	7.4	10
55	Effect of exciton dragging by a surface acoustic wave. <i>JETP Letters</i> , 2015 , 101, 177-182	1.2	9
54	Paramagnetic resonance in spin-polarized disordered Bose-Einstein condensates. <i>Scientific Reports</i> , 2017 , 7, 2076	4.9	8
53	Bogolon-mediated electron capture by impurities in hybrid Bose-Fermi systems. <i>Physical Review B</i> , 2018 , 97,	3.3	7
52	Aharonov-Bohm effect for plasmons in a finite-width quantum ring. <i>JETP Letters</i> , 2010 , 90, 679-682	1.2	7

51	Exciton-Polariton Topological Insulator with an Array of Magnetic Dots. <i>Physical Review Applied</i> , 2019 , 12,	4.3	7
50	Valley Hall transport of photon-dressed quasiparticles in two-dimensional Dirac semiconductors. <i>New Journal of Physics</i> , 2018 , 20, 083007	2.9	7
49	Unconventional Bloch-Grüneisen Scattering in Hybrid Bose-Fermi Systems. <i>Physical Review Letters</i> , 2019 , 123, 095301	7.4	6
48	Bogolon-mediated electron scattering in graphene in hybrid Bose-Fermi systems. <i>Physical Review B</i> , 2019 , 99,	3.3	6
47	Proposal for frequency-selective photodetector based on the resonant photon drag effect in a condensate of indirect excitons. <i>Physical Review B</i> , 2018 , 98,	3.3	6
46	Absorption of surface acoustic waves by a gas of two-dimensional indirect excitons. <i>JETP Letters</i> , 2013 , 96, 775-779	1.2	6
45	Nonlinear effects in multi-photon polaritonics. <i>Optics Express</i> , 2013 , 21, 15183-94	3.3	6
44	Ultrafast exciton-polariton scattering towards the Dirac points. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 105301	1.8	5
43	Screening effects and Friedel oscillations in quantum-well nanostructures. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 107, 839-845	1	5
42	Fine structure of exciton luminescence in a quantum ring under external electromagnetic radiation. <i>Europhysics Letters</i> , 2007 , 77, 47003	1.6	5
41	Conductance of a quantum ring with spin-orbit interaction in the presence of an impurity. <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 103, 781-789	1	5
40	Current driven electromagnetic wave amplification by double quantum wire superlattice. <i>Journal of Applied Physics</i> , 2004 , 96, 4225-4232	2.5	5
39	Resonant Photon Drag of Dipolar Excitons. <i>JETP Letters</i> , 2018 , 107, 737-741	1.2	5
38	Interaction of Rayleigh waves with 2D dipolar exciton gas: impact of Bose-Einstein condensation. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 484002	3	4
37	Photogalvanic currents in dynamically gapped transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2019 , 99,	3.3	4
36	Proposal for Plasmon Spectroscopy of Fluctuations in Low-Dimensional Superconductors. <i>Physical Review Letters</i> , 2020 , 124, 207002	7.4	4
35	Quantum anomalous valley Hall effect for bosons. <i>Physical Review B</i> , 2019 , 100,	3.3	4
34	Coherent photogalvanic valley Hall effect. <i>JETP Letters</i> , 2017 , 106, 565-570	1.2	4

33	Rayleigh surface wave interaction with the 2D exciton Bose-Einstein condensate. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 120, 998-1004	1	4
32	Electrostatic screening in nanostructures with multicomponent electron plasma. <i>Journal of Physics: Conference Series</i> , 2008 , 129, 012007	0.3	4
31	Bose-Einstein condensate-mediated superconductivity in graphene. <i>2D Materials</i> , 2021 , 8, 031004	5.9	4
30	Photogalvanic effect in monolayer transition metal dichalcogenides under double illumination. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 325302	1.8	3
29	Interaction of surface and bulk acoustic waves with a two-dimensional semimetal. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 120, 312-318	1	3
28	Composite particles in quantum wells. <i>JETP Letters</i> , 2008 , 88, 454-457	1.2	3
27	Control of bond formation, electron transport, and interference in a biased asymmetric parallel double-dot system. <i>Journal of Applied Physics</i> , 2004 , 95, 3557-3560	2.5	3
26	Tunnel magnetotransport in heterostructures with quantum rings. <i>Journal of Experimental and Theoretical Physics</i> , 2002 , 95, 912-916	1	3
25	Electronic absorption of surface acoustic waves by quantum rings in a magnetic field. <i>Semiconductors</i> , 2003 , 37, 1195-1200	0.7	3
24	Theory of BCS-like bogolon-mediated superconductivity in transition metal dichalcogenides. <i>New Journal of Physics</i> , 2021 , 23, 023023	2.9	3
23	Floquet engineering of the Luttinger Hamiltonian. <i>Physical Review B</i> , 2020 , 102,	3.3	2
22	Interplay between collective modes in hybrid electron-gas/superconductor structures. <i>Physical Review B</i> , 2020 , 101,	3.3	2
21	Generation of Sound by a Two-Dimensional Gas of Indirect Dipolar Excitons. <i>JETP Letters</i> , 2015 , 102, 807-810	1.2	2
20	Electrostatic Screening and Friedel Oscillations in Nanostructures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 699-709	1.5	2
19	Quasiparticle lifetime in a two-dimensional semimetal. <i>JETP Letters</i> , 2011 , 93, 399-402	1.2	2
18	Acoustomagnetolectric effect in two-dimensional materials: Geometric resonances and Weiss oscillations. <i>Physical Review B</i> , 2020 , 102,	3.3	2
17	Acoustoelectric effect in two-dimensional Dirac materials exposed to Rayleigh surface acoustic waves. <i>Physical Review B</i> , 2020 , 102,	3.3	2
16	New Versions of the Aharonov-Bohm Effect in Quantum Rings. <i>Nanoscience and Technology</i> , 2014 , 199-243	3.5	2

15	Light-induced bound electron states in two-dimensional systems: Contribution to electron transport. <i>Physical Review B</i> , 2020 , 102,	3.3	2
14	Acoustic excitonic effects in a two-dimensional gas of dipolar excitons. <i>JETP Letters</i> , 2016 , 104, 204-211	1.2	2
13	Coulomb drag of excitons in Bose-Fermi systems. <i>Physical Review B</i> , 2019 , 99,	3.3	1
12	Collisional Lifetimes of Elementary Excitations in Two-Dimensional Systems in the Field of a Strong Electromagnetic Wave. <i>JETP Letters</i> , 2018 , 107, 182-185	1.2	1
11	Coulomb Drag of Dipole Excitons in a Hybrid Exciton-Electron System. <i>JETP Letters</i> , 2018 , 107, 635-639	1.2	1
10	Exciton optical transitions in quantum wells with spin-orbit coupling. <i>JETP Letters</i> , 2013 , 97, 131-136	1.2	1
9	Relaxation dynamics of a driven two-level system coupled to a Bose-Einstein condensate: application to quantum dot-dipolar exciton gas hybrid systems. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 465301	1.8	1
8	Coherent photogalvanic effect in fluctuating superconductors. <i>Physical Review B</i> , 2021 , 103,	3.3	1
7	Strong-coupling theory of condensate-mediated superconductivity in two-dimensional materials. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
6	Rashba plasmon polaritons in semiconductor heterostructures. <i>Applied Physics Letters</i> , 2013 , 102, 101105	5.4	
5	Inelastic light scattering by dipolar excitons. <i>JETP Letters</i> , 2011 , 94, 315-318	1.2	
4	Transport Properties of Two-Dimensional Topological Insulators and Excitonic Condensates. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2020 , 56, 545-552	0.6	
3	Electron Wires Driven by a Surface Acoustic Wave and Nonlinear Acoustoelectric Interactions in Quantum Wells. <i>Springer Proceedings in Physics</i> , 2001 , 869-870	0.2	
2	Floquet Engineering of Structures Based on Gapless Semiconductors. <i>Semiconductors</i> , 2020 , 54, 1734-1736	3.6	
1	Magnetoplasmon resonance in two-dimensional fluctuating superconductors. <i>New Journal of Physics</i> , 2021 , 23, 093009	2.9	