

# Vadim Kovalev

## 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.

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	Bose-Einstein condensate-mediated superconductivity in graphene. <i>2D Materials</i> , <b>2021</b> , 8, 031004	5.9	4
67	Coherent photogalvanic effect in fluctuating superconductors. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
66	Theory of BCS-like bogolon-mediated superconductivity in transition metal dichalcogenides. <i>New Journal of Physics</i> , <b>2021</b> , 23, 023023	2.9	3
65	Strong-coupling theory of condensate-mediated superconductivity in two-dimensional materials. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	1
64	Magnetoplasmon resonance in two-dimensional fluctuating superconductors. <i>New Journal of Physics</i> , <b>2021</b> , 23, 093009	2.9	
63	Proposal for Plasmon Spectroscopy of Fluctuations in Low-Dimensional Superconductors. <i>Physical Review Letters</i> , <b>2020</b> , 124, 207002	7.4	4
62	Floquet engineering of the Luttinger Hamiltonian. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
61	Interplay between collective modes in hybrid electron-gas/superconductor structures. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
60	Acoustomagnetolectric effect in two-dimensional materials: Geometric resonances and Weiss oscillations. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
59	Acoustoelectric effect in two-dimensional Dirac materials exposed to Rayleigh surface acoustic waves. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
58	Transport Properties of Two-Dimensional Topological Insulators and Excitonic Condensates. <i>Optoelectronics, Instrumentation and Data Processing</i> , <b>2020</b> , 56, 545-552	0.6	
57	Floquet Engineering of Structures Based on Gapless Semiconductors. <i>Semiconductors</i> , <b>2020</b> , 54, 1734-1736		
56	Light-induced bound electron states in two-dimensional systems: Contribution to electron transport. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
55	Unconventional Bloch-Grüneisen Scattering in Hybrid Bose-Fermi Systems. <i>Physical Review Letters</i> , <b>2019</b> , 123, 095301	7.4	6
54	Photogalvanic currents in dynamically gapped transition metal dichalcogenide monolayers. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	4
53	Photogalvanic effect in monolayer transition metal dichalcogenides under double illumination. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 325302	1.8	3
52	Bogolon-mediated electron scattering in graphene in hybrid Bose-Fermi systems. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	6

51	Coulomb drag of excitons in Bose-Fermi systems. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	1
50	Valley Acoustoelectric Effect. <i>Physical Review Letters</i> , <b>2019</b> , 122, 256801	7-4	14
49	Quantum anomalous valley Hall effect for bosons. <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	4
48	Exciton-Polariton Topological Insulator with an Array of Magnetic Dots. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4-3	7
47	Bogolon-mediated electron capture by impurities in hybrid Bose-Fermi systems. <i>Physical Review B</i> , <b>2018</b> , 97,	3-3	7
46	Collisional Lifetimes of Elementary Excitations in Two-Dimensional Systems in the Field of a Strong Electromagnetic Wave. <i>JETP Letters</i> , <b>2018</b> , 107, 182-185	1-2	1
45	Coulomb Drag of Dipole Excitons in a Hybrid Exciton-Electron System. <i>JETP Letters</i> , <b>2018</b> , 107, 635-639	1-2	1
44	Proposal for frequency-selective photodetector based on the resonant photon drag effect in a condensate of indirect excitons. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	6
43	Shedding light on topological superconductors. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	11
42	Photon drag of a Bose-Einstein condensate. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	12
41	Resonant Photon Drag of Dipolar Excitons. <i>JETP Letters</i> , <b>2018</b> , 107, 737-741	1-2	5
40	Valley Hall transport of photon-dressed quasiparticles in two-dimensional Dirac semiconductors. <i>New Journal of Physics</i> , <b>2018</b> , 20, 083007	2-9	7
39	Interaction of Rayleigh waves with 2D dipolar exciton gas: impact of Bose-Einstein condensation. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 484002	3	4
38	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> , <b>2017</b> , 29, 465301	1-8	1
37	Paramagnetic resonance in spin-polarized disordered Bose-Einstein condensates. <i>Scientific Reports</i> , <b>2017</b> , 7, 2076	4-9	8
36	Coherent photogalvanic valley Hall effect. <i>JETP Letters</i> , <b>2017</b> , 106, 565-570	1-2	4
35	Ultrafast exciton-polariton scattering towards the Dirac points. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 105301	1-8	5
34	Acoustic-excitonic effects in a two-dimensional gas of dipolar excitons. <i>JETP Letters</i> , <b>2016</b> , 104, 204-211	1-2	2

33	Magnetoplasmon Fano resonance in Bose-Fermi mixtures. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	18
32	Acousto-exciton interaction in a gas of 2D indirect dipolar excitons in the presence of disorder. <i>Journal of Experimental and Theoretical Physics</i> , <b>2016</b> , 122, 499-508	1	13
31	Effect of exciton dragging by a surface acoustic wave. <i>JETP Letters</i> , <b>2015</b> , 101, 177-182	1.2	9
30	Interaction of surface and bulk acoustic waves with a two-dimensional semimetal. <i>Journal of Experimental and Theoretical Physics</i> , <b>2015</b> , 120, 312-318	1	3
29	Generation of Sound by a Two-Dimensional Gas of Indirect Dipolar Excitons. <i>JETP Letters</i> , <b>2015</b> , 102, 807-810	1.2	2
28	Rayleigh surface wave interaction with the 2D exciton Bose-Einstein condensate. <i>Journal of Experimental and Theoretical Physics</i> , <b>2015</b> , 120, 998-1004	1	4
27	Response of a Bose-Einstein condensate of dipole excitons to static and dynamic perturbations. <i>JETP Letters</i> , <b>2014</b> , 99, 540-551	1.2	11
26	New Versions of the Aharonov-Bohm Effect in Quantum Rings. <i>Nanoscience and Technology</i> , <b>2014</b> , 199-245	1.2	2
25	Absorption of surface acoustic waves by a gas of two-dimensional indirect excitons. <i>JETP Letters</i> , <b>2013</b> , 96, 775-779	1.2	6
24	Exciton optical transitions in quantum wells with spin-orbit coupling. <i>JETP Letters</i> , <b>2013</b> , 97, 131-136	1.2	1
23	Lifetime of quasiparticles in a hybrid electron-exciton system. <i>JETP Letters</i> , <b>2013</b> , 98, 331-334	1.2	10
22	Rashba plasmon polaritons in semiconductor heterostructures. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 101105-4	1.2	4
21	Nonlinear effects in multi-photon polaritonics. <i>Optics Express</i> , <b>2013</b> , 21, 15183-94	3.3	6
20	Electrostatic Screening and Friedel Oscillations in Nanostructures. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2012</b> , 25, 699-709	1.5	2
19	Quasiparticle lifetime in a two-dimensional semimetal. <i>JETP Letters</i> , <b>2011</b> , 93, 399-402	1.2	2
18	Inelastic light scattering by dipolar excitons. <i>JETP Letters</i> , <b>2011</b> , 94, 315-318	1.2	
17	Modulation of the exciton density in a hybrid electron-exciton system. <i>JETP Letters</i> , <b>2011</b> , 94, 560-564	1.2	11
16	Aharonov-Bohm effect for plasmons in a finite-width quantum ring. <i>JETP Letters</i> , <b>2010</b> , 90, 679-682	1.2	7

15	Screening of static perturbation in a system of dipole excitons. <i>JETP Letters</i> , <b>2010</b> , 92, 185-188	1.2	11
14	Composite particles in quantum wells. <i>JETP Letters</i> , <b>2008</b> , 88, 454-457	1.2	3
13	Electrostatic screening in nanostructures with multicomponent electron plasma. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 129, 012007	0.3	4
12	Screening effects and Friedel oscillations in quantum-well nanostructures. <i>Journal of Experimental and Theoretical Physics</i> , <b>2008</b> , 107, 839-845	1	5
11	Fine structure of exciton luminescence in a quantum ring under external electromagnetic radiation. <i>Europhysics Letters</i> , <b>2007</b> , 77, 47003	1.6	5
10	Conductance of a quantum ring with spin-orbit interaction in the presence of an impurity. <i>Journal of Experimental and Theoretical Physics</i> , <b>2006</b> , 103, 781-789	1	5
9	Magnetopolaron state of particles in quantum rings of finite width. <i>Journal of Experimental and Theoretical Physics</i> , <b>2005</b> , 101, 686-692	1	11
8	Control of bond formation, electron transport, and interference in a biased asymmetric parallel double-dot system. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 3557-3560	2.5	3
7	Current driven electromagnetic wave amplification by double quantum wire superlattice. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 4225-4232	2.5	5
6	Electronic absorption of surface acoustic waves by quantum rings in a magnetic field. <i>Semiconductors</i> , <b>2003</b> , 37, 1195-1200	0.7	3
5	Tunnel magnetotransport in heterostructures with quantum rings. <i>Journal of Experimental and Theoretical Physics</i> , <b>2002</b> , 95, 912-916	1	3
4	Self-induced acoustic transparency in semiconductor quantum films. <i>Physical Review Letters</i> , <b>2001</b> , 87, 226803	7.4	10
3	Electron Wires Driven by a Surface Acoustic Wave and Nonlinear Acoustoelectric Interactions in Quantum Wells. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 869-870	0.2	
2	Solitons in semiconductor microstructures with a two-dimensional electron gas. <i>JETP Letters</i> , <b>1999</b> , 70, 488-490	1.2	14
1	Magnetoexcitons in type-II quantum dots. <i>JETP Letters</i> , <b>1998</b> , 68, 669-672	1.2	50