

Dmitry Krizhanovskii

List of Publications by Year in descending order

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59
papers

3,787
citations

117625

34
h-index

161849

54
g-index

60
all docs

60
docs citations

60
times ranked

2598
citing authors

#	ARTICLE	IF	CITATIONS
1	Condensation of 2D exciton-polaritons in an open-access microcavity. Journal of Applied Physics, 2022, 131, 093101.	2.5	3
2	Optical analogue of Dresselhaus spin-orbit interaction in photonic graphene. Nature Photonics, 2021, 15, 193-196.	31.4	35
3	Ultrafast-nonlinear ultraviolet pulse modulation in an AlInGaN polariton waveguide operating up to room temperature. Nature Communications, 2021, 12, 3504.	12.8	15
4	Experimental observation of topological Z2 exciton-polaritons in transition metal dichalcogenide monolayers. Nature Communications, 2021, 12, 4425.	12.8	42
5	Exciton-polaritons in GaAs-based slab waveguide photonic crystals. Applied Physics Letters, 2021, 119, 181101.	3.3	3
6	Probing guided monolayer semiconductor polaritons below the light line. Journal of Physics: Conference Series, 2021, 2015, 012069.	0.4	0
7	Optical and magnetic control of orbital flat bands in a polariton Lieb lattice. Physical Review A, 2021, 104, .	2.5	1
8	Highly nonlinear trion-polaritons in a monolayer semiconductor. Nature Communications, 2020, 11, 3589.	12.8	83
9	Nonlinear Quantum Optics with Trion Polaritons in 2D Monolayers: Conventional and Unconventional Photon Blockade. Physical Review Letters, 2020, 125, 197402.	7.8	47
10	Electrically tunable trion-polaritons in MoSe2/hBN heterostructure integrated with a photonic crystal slab. AIP Conference Proceedings, 2020, , .	0.4	0
11	Measurement of local optomechanical properties of a direct bandgap 2D semiconductor. APL Materials, 2019, 7, .	5.1	18
12	Effect of photonic spin-orbit coupling on the topological edge modes of a Su-Schrieffer-Heeger chain. Physical Review B, 2019, 99, .	3.2	34
13	Exciton Polaritons in a Two-Dimensional Lieb Lattice with Spin-Orbit Coupling. Physical Review Letters, 2018, 120, 097401.	7.8	120
14	Transition from Propagating Polariton Solitons to a Standing Wave Condensate Induced by Interactions. Physical Review Letters, 2018, 120, 167402.	7.8	12
15	Quantum fluids of light in acoustic lattices. Journal Physics D: Applied Physics, 2018, 51, 033001.	2.8	4
16	Valley coherent exciton-polaritons in a monolayer semiconductor. Nature Communications, 2018, 9, 4797.	12.8	66
17	Formation of a macroscopically occupied polariton state in a tunable open-access microcavity under resonant excitation. Journal of Applied Physics, 2018, 124, .	2.5	3
18	Dark Solitons in High Velocity Waveguide Polariton Fluids. Physical Review Letters, 2017, 119, 097403.	7.8	61

#	ARTICLE	IF	CITATIONS
19	Valley-addressable polaritons in atomically thin semiconductors. Nature Photonics, 2017, 11, 497-501.	31.4	169
20	Backward Cherenkov radiation emitted by polariton solitons in a microcavity wire. Nature Communications, 2017, 8, 1554.	12.8	23
21	Ultra-low-power polariton solitons in semiconductor waveguides and microcavities. , 2016, , .		0
22	Full Stark control of polariton states on a spin-orbit hypersphere. Physical Review B, 2016, 94, .	3.2	7
23	Spin Textures of Exciton-Polaritons in a Tunable Microcavity with Large TE-TM Splitting. Physical Review Letters, 2015, 115, 246401.	7.8	82
24	Tunable polaritonic molecules in an open microcavity system. Applied Physics Letters, 2015, 107, .	3.3	19
25	Spatial Patterns of Dissipative Polariton Solitons in Semiconductor Microcavities. Physical Review Letters, 2015, 115, 256401.	7.8	21
26	Design and characterization of high optical quality InGaAs/GaAs/AlGaAs-based polariton microcavities. Applied Physics Letters, 2015, 106, .	3.3	8
27	Effect of the modulation of the polariton potential on the polarization instability of stimulated polariton-polariton scattering in planar gas microcavities. JETP Letters, 2015, 101, 334-340.	1.4	0
28	Ultra-low-power hybrid light-matter solitons. Nature Communications, 2015, 6, 8317.	12.8	74
29	Exciton-polaritons in van der Waals heterostructures embedded in tunable microcavities. Nature Communications, 2015, 6, 8579.	12.8	377
30	Strong exciton-photon coupling in open semiconductor microcavities. Applied Physics Letters, 2014, 104, .	3.3	48
31	Effects of Spin-Dependent Interactions on Polarization of Bright Polariton Solitons. Physical Review Letters, 2014, 112, 046403.	7.8	47
32	Exciton-Polariton Gap Solitons in Two-Dimensional Lattices. Physical Review Letters, 2013, 111, 146401.	7.8	124
33	Spontaneous vortices in optically shaped potential profiles in semiconductor microcavities. Physical Review B, 2013, 87, .	3.2	10
34	Exciton polaritons in semiconductor waveguides. Applied Physics Letters, 2013, 102, .	3.3	54
35	Effect of polariton-polariton interactions on the excitation spectrum of a nonequilibrium condensate in a periodic potential. Physical Review B, 2013, 87, .	3.2	29
36	Solitons in semiconductor microcavities. Nature Photonics, 2012, 6, 204-204.	31.4	3

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37	Observation of bright polariton solitons in a semiconductor microcavity. <i>Nature Photonics</i> , 2012, 6, 50-55.	31.4	237
38	Polariton Condensation In One- And Two- Dimensional Acoustic Lattices. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	0
39	Suppression of Zeeman Splitting of the Energy Levels of Exciton-Polariton Condensates in Semiconductor Microcavities in an External Magnetic Field. <i>Physical Review Letters</i> , 2011, 106, 257401.	7.8	57
40	Persistent currents and quantized vortices in a polariton superfluid. <i>Nature Physics</i> , 2010, 6, 527-533.	16.7	282
41	Polariton Condensation in Dynamic Acoustic Lattices. <i>Physical Review Letters</i> , 2010, 105, 116402.	7.8	173
42	Polarization Bistability and Resultant Spin Rings in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2010, 105, 216402.	7.8	77
43	Effect of Interactions on Vortices in a Nonequilibrium Polariton Condensate. <i>Physical Review Letters</i> , 2010, 104, 126402.	7.8	58
44	Coexisting nonequilibrium condensates with long-range spatial coherence in semiconductor microcavities. <i>Physical Review B</i> , 2009, 80, .	3.2	67
45	Collective fluid dynamics of a polariton condensate in a semiconductor microcavity. <i>Nature</i> , 2009, 457, 291-295.	27.8	494
46	Electroluminescence emission from polariton states in GaAs-based semiconductor microcavities. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	66
47	Self-organization of multiple polariton-polariton scattering in semiconductor microcavities. <i>Physical Review B</i> , 2008, 77, .	3.2	55
48	Intrinsic Decoherence Mechanisms in the Microcavity Polariton Condensate. <i>Physical Review Letters</i> , 2008, 101, 067404.	7.8	146
49	Interaction between a high-density polariton phase and the exciton environment in semiconductor microcavities. <i>Physical Review B</i> , 2007, 75, .	3.2	11
50	Spatial structure and stability of the macroscopically occupied polariton state in the microcavity optical parametric oscillator. <i>Physical Review B</i> , 2006, 73, .	3.2	36
51	Rotation of the plane of polarization of light in a semiconductor microcavity. <i>Physical Review B</i> , 2006, 73, .	3.2	79
52	Spatial properties and coherence of the high density phase in the microcavity optical parametric oscillator. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3741-3753.	1.5	1
53	Dominant Effect of Polariton-Polariton Interactions on the Coherence of the Microcavity Optical Parametric Oscillator. <i>Physical Review Letters</i> , 2006, 97, 097402.	7.8	46
54	Polarisation properties of optical parametric oscillator emission in a semiconductor microcavity. <i>Physica Status Solidi A</i> , 2005, 202, 2621-2625.	1.7	2

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55	Optical orientation and control of spin memory in individual InGaAs quantum dots. Physical Review B, 2005, 72, .	3.2	43
56	Individual neutral and charged $\text{In}_x\text{Ga}_{1-x}\text{As}$ quantum dots with strong in-plane optical anisotropy. Physical Review B, 2005, 72, .	3.2	61
57	Giant enhancement of polariton relaxation in semiconductor microcavities by polariton-free carrier interaction: Experimental evidence and theory. Physical Review B, 2003, 67, .	3.2	36
58	Polariton-polariton scattering in semiconductor microcavities: Distinctive features and similarities to the three-dimensional case. Physical Review B, 2000, 62, R13298-R13301.	3.2	80
59	Nonlinearities in emission from the lower polariton branch of semiconductor microcavities. Physical Review B, 1999, 60, R11293-R11296.	3.2	38