List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An electrically pumped polariton laser. Nature, 2013, 497, 348-352.	27.8	420
2	Nonlinear Terahertz Emission in Semiconductor Microcavities. Physical Review Letters, 2011, 107, 027401.	7.8	47
3	Collective state transitions of exciton-polaritons loaded into a periodic potential. Physical Review B, 2016, 93, .	3.2	45
4	Spatial Coherence Properties of One Dimensional Exciton-Polariton Condensates. Physical Review Letters, 2014, 113, 203902.	7.8	39
5	Asymmetric quantum dot in a microcavity as a nonlinear optical element. Physical Review A, 2012, 85, .	2.5	35
6	An exciton-polariton mediated all-optical router. Applied Physics Letters, 2013, 103, .	3.3	35
7	Valley Acoustoelectric Effect. Physical Review Letters, 2019, 122, 256801.	7.8	31
8	Stochastic Gross-Pitaevskii Equation for the Dynamical Thermalization of Bose-Einstein Condensates. Physical Review Letters, 2013, 110, 127402.	7.8	28
9	Coherent Topological Polariton Laser. ACS Photonics, 2021, 8, 1377-1384.	6.6	28
10	Evolution of Temporal Coherence in Confined Exciton-Polariton Condensates. Physical Review Letters, 2018, 120, 017401.	7.8	25
11	Lasing in Bose-Fermi mixtures. Scientific Reports, 2016, 6, 20091.	3.3	21
12	Density-matrix approach for an interacting polariton system. Physical Review B, 2011, 83, .	3.2	20
13	Dissipative soliton protocols in semiconductor microcavities at finite temperatures. Physical Review B, 2015, 92, .	3.2	19
14	Fluctuations of work in nearly adiabatically driven open quantum systems. Physical Review E, 2015, 91, 022126.	2.1	19
15	Magnetoplasmon Fano resonance in Bose-Fermi mixtures. Physical Review B, 2016, 94, .	3.2	19
16	Optical Transistor for Amplification of Radiation in a Broadband Terahertz Domain. Physical Review Letters, 2020, 124, 087701.	7.8	19
17	Spin multistability in dissipative polariton channels. Physical Review B, 2012, 86, .	3.2	18
18	Photon drag of a Bose-Einstein condensate. Physical Review B, 2018, 98, .	3.2	16

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19	Bistability phenomena in one-dimensional polariton wires. Physical Review B, 2011, 84, .	3.2	15
20	Valley Hall transport of photon-dressed quasiparticles in two-dimensional Dirac semiconductors. New Journal of Physics, 2018, 20, 083007.	2.9	15
21	Multivalley engineering in semiconductor microcavities. Scientific Reports, 2017, 7, 45243.	3.3	13
22	Excitation of localized condensates in the flat band of the exciton-polariton Lieb lattice. Physical Review B, 2018, 98, .	3.2	13
23	Shedding light on topological superconductors. Physical Review B, 2018, 98, .	3.2	13
24	Bose–Einstein condensate-mediated superconductivity in graphene. 2D Materials, 2021, 8, 031004.	4.4	13
25	Exciton-Polariton Topological Insulator with an Array of Magnetic Dots. Physical Review Applied, 2019, 12, .	3.8	11
26	Unconventional Bloch-Grüneisen Scattering in Hybrid Bose-Fermi Systems. Physical Review Letters, 2019, 123, 095301.	7.8	10
27	Paramagnetic resonance in spin-polarized disordered Bose-Einstein condensates. Scientific Reports, 2017, 7, 2076.	3.3	9
28	Bogolon-mediated electron capture by impurities in hybrid Bose-Fermi systems. Physical Review B, 2018, 97, .	3.2	9
29	Bogolon-mediated electron scattering in graphene in hybrid Bose-Fermi systems. Physical Review B, 2019, 99, .	3.2	9
30	Proposal for Plasmon Spectroscopy of Fluctuations in Low-Dimensional Superconductors. Physical Review Letters, 2020, 124, 207002.	7.8	9
31	Acoustoelectric effect in two-dimensional Dirac materials exposed to Rayleigh surface acoustic waves. Physical Review B, 2020, 102, .	3.2	9
32	Photogalvanic currents in dynamically gapped transition metal dichalcogenide monolayers. Physical Review B, 2019, 99, .	3.2	8
33	Theory of BCS-like bogolon-mediated superconductivity in transition metal dichalcogenides. New Journal of Physics, 2021, 23, 023023.	2.9	8
34	Nonequilibrium theory of the photoinduced valley Hall effect. Physical Review B, 2021, 103, .	3.2	8
35	Nonlinear effects in multi-photon polaritonics. Optics Express, 2013, 21, 15183.	3.4	7
36	Quantum treatment of the Bose-Einstein condensation in nonequilibrium systems. Physical Review B, 2015, 92, .	3.2	7

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37	Parity measurement of remote qubits using dispersive coupling and photodetection. Physical Review A, 2015, 92, .	2.5	7
38	Proposal for frequency-selective photodetector based on the resonant photon drag effect in a condensate of indirect excitons. Physical Review B, 2018, 98, .	3.2	7
39	Coulomb drag of excitons in Bose-Fermi systems. Physical Review B, 2019, 99, .	3.2	7
40	Acoustomagnetoelectric effect in two-dimensional materials: Geometric resonances and Weiss oscillations. Physical Review B, 2020, 102, .	3.2	7
41	Resonant Photon Drag of Dipolar Excitons. JETP Letters, 2018, 107, 737-741.	1.4	6
42	Quantum anomalous valley Hall effect for bosons. Physical Review B, 2019, 100, .	3.2	6
43	Coherent photogalvanic effect in fluctuating superconductors. Physical Review B, 2021, 103, .	3.2	6
44	Ultrafast exciton–polariton scattering towards the Dirac points. Journal of Physics Condensed Matter, 2016, 28, 105301.	1.8	5
45	Kinetic Monte Carlo approach to nonequilibrium bosonic systems. Physical Review B, 2017, 96, .	3.2	4
46	Interplay between collective modes in hybrid electron-gas–superconductor structures. Physical Review B, 2020, 101, .	3.2	3
47	Optical valleytronics of impurity states in two-dimensional Dirac materials. Physical Review B, 2021, 103, .	3.2	3
48	Strong-coupling theory of condensate-mediated superconductivity in two-dimensional materials. Physical Review Research, 2021, 3, .	3.6	3
49	Spatial coherence of polaritons in a 1D channel. Journal of Experimental and Theoretical Physics, 2013, 116, 32-38.	0.9	2
50	Refractive index of laser active region based on InAs/InGaAs quantum dots. Journal of Nanophotonics, 2013, 7, 073087.	1.0	2
51	Exciton-polariton lasers in Magnetic Fields. , 2013, , .		2
52	Exciton-polariton laser diodes. , 2014, , .		2
53	Operation of a semiconductor microcavity under electric excitation. Applied Physics Letters, 2016, 109,	3.3	2
54	Phase selection and intermittency of exciton-polariton condensates in one-dimensional periodic structures. Physical Review A, 2019, 100, .	2.5	2

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55	Giant Rabi splitting in a metallic cluster–cavity system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 045101.	1.5	1
56	Spectral selection of spatial modes in edgeâ€emitting lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1292-1295.	0.8	1
57	An electrically pumped polariton laser. , 2015, , .		1
58	Photoinduced electric currents in Bose-Einstein condensates. Physical Review B, 2018, 98, .	3.2	1
59	Polariton condensation in photonic crystals with high molecular orientation. New Journal of Physics, 2018, 20, 013037.	2.9	1
60	An electrically driven polariton laser. , 2013, , .		1
61	FULL DENSITY MATRIX FORMALISM APPLIED TO 1D EXCITON-POLARITON TRANSPORT. , 2011, , .		0
62	Spin transport in an Aharonov-Bohm ring with exchange interaction. Physical Review B, 2013, 88, .	3.2	0
63	Electrically driven exciton-polariton lasers. , 2013, , .		0
64	Rashba plasmon polaritons in semiconductor heterostructures. Applied Physics Letters, 2013, 102, 101105.	3.3	0
65	Semiconductor Exciton-Polariton Lasers. , 2014, , .		0
66	Two-dimensional vortex dissipative optical solitons in polariton laser with saturable absorber. , 2016, , \cdot		0
67	Impurity-band optical transitions in two-dimensional Dirac materials under strain-induced synthetic magnetic field. Physical Review B, 2021, 103, .	3.2	Ο
68	Magnetoplasmon resonance in two-dimensional fluctuating superconductors. New Journal of Physics, 2021, 23, 093009.	2.9	0
69	OPTICAL PROPERTIES OF QUANTUM DOTS IN A TILTED WAVE LASER. , 2011, , .		Ο
70	An Electrically Driven Polariton Laser. , 2013, , .		0
71	Partial quantum revivals of localized condensates in distorted lattices. Optics Letters, 2020, 45, 1571.	3.3	0