Alexey Kavokin

List of Publications by Year
in descending order

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444	16,266	19657 61	24258 110
papers	citations	h-index	g-index

455	455	455	6565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Room-Temperature Polariton Lasing in Semiconductor Microcavities. Physical Review Letters, 2007, 98, 126405.	7.8	833
2	Tamm plasmon-polaritons: Possible electromagnetic states at the interface of a metal and a dielectric Bragg mirror. Physical Review B, 2007, 76, .	3.2	692
3	Spontaneous formation and optical manipulation of extended polariton condensates. Nature Physics, 2010, 6, 860-864.	16.7	431
4	Tamm plasmon polaritons: Slow and spatially compact light. Applied Physics Letters, 2008, 92, .	3.3	344
5	ZnO as a material mostly adapted for the realization of room-temperature polariton lasers. Physical Review B, 2002, 65, .	3.2	343
6	Excitonâ€“polariton spin switches. Nature Photonics, 2010, 4, 361-366.	31.4	337
7	Optical Spin Hall Effect. Physical Review Letters, 2005, 95, 136601.	7.8	314
8	Observation of the optical spin Hall effect. Nature Physics, 2007, 3, 628-631.	16.7	308
9	Observation of Half-Quantum Vortices in an Exciton-Polariton Condensate. Science, 2009, 326, 974-976.	12.6	294
10	Lossless interface modes at the boundary between two periodic dielectric structures. Physical Review B, 2005, 72, .	3.2	267
11	Spontaneous coherence in a cold exciton gas. Nature, 2012, 483, 584-588.	27.8	263
12	Exciton-light coupling in single and coupled semiconductor microcavities: Polariton dispersion and polarization splitting. Physical Review B, 1999, 59, 5082-5089.	3.2	248
13	Optical Circuits Based on Polariton Neurons in Semiconductor Microcavities. Physical Review Letters, 2008, 101, 016402.	7.8	220
14	Room-temperature Tamm-plasmon exciton-polaritons with a WSe2 monolayer. Nature Communications, 2016, 7, 13328.	12.8	214
15	Polariton polarization-sensitive phenomena in planar semiconductor microcavities. Semiconductor Science and Technology, 2010, 25, 013001.	2.0	212
16	Spontaneous Polarization Buildup in a Room-Temperature Polariton Laser. Physical Review Letters, 2008, 101, 136409.	7.8	197
17	Mie Resonances, Infrared Emission, and the Band Gap of InN. Physical Review Letters, 2004, 92, 117407.	7.8	191
18	Room-temperature polariton lasers based on GaN microcavities. Applied Physics Letters, 2002, 81, 412-414.	3.3	179

#	Article	IF	Citations
19	Polarization Multistability of Cavity Polaritons. Physical Review Letters, 2007, 98, 236401.	7.8	176
20	Polariton-polariton interaction constants in microcavities. Physical Review B, 2010, 82, .	3.2	173
21	Polarization and Propagation of Polariton Condensates. Physical Review Letters, 2006, 97, 066402.	7.8	146
22	Experimental evidence for nonequilibrium Bose condensation of exciton polaritons. Physical Review B, 2005, 72, .	3.2	144
23	Exciton-Polariton Mediated Superconductivity. Physical Review Letters, 2010, 104, 106402.	7.8	130
24	Photon Bloch Oscillations in Porous Silicon Optical Superlattices. Physical Review Letters, 2004, 92, 097401.	7.8	127
25	Exciton-polariton integrated circuits. Physical Review B, 2010, 82, .	3.2	120
26	Nonlinear Optical Spin Hall Effect and Long-Range Spin Transport in Polariton Lasers. Physical Review Letters, 2012, 109, 036404.	7.8	115
27	Effect of inhomogeneous broadening on optical properties of excitons in quantum wells. Physical Review B, 1998, 57, 4670-4680.	3.2	112
28	Probing the Dynamics of Spontaneous Quantum Vortices in Polariton Superfluids. Physical Review Letters, 2011, 106, 115301.	7.8	110
29	Giant exciton-light coupling in ZnO quantum dots. Applied Physics Letters, 2002, 81, 748-750.	3.3	109
30	Polariton condensation in an optically induced two-dimensional potential. Physical Review B, 2013, 88, .	3.2	108
31	Propagation and Amplification Dynamics of 1D Polariton Condensates. Physical Review Letters, 2012, 109, 216404.	7.8	106
32	Fine structure of localized exciton levels in quantum wells. Journal of Experimental and Theoretical Physics, 1998, 86, 388-394.	0.9	98
33	Hybrid states of Tamm plasmons and exciton polaritons. Applied Physics Letters, 2009, 95, .	3.3	97
34	Quantum Theory of Spin Dynamics of Exciton-Polaritons in Microcavities. Physical Review Letters, 2004, 92, 017401.	7.8	96
35	Optical Tamm states for the fabrication of polariton lasers. Applied Physics Letters, 2005, 87, 261105.	3.3	95
36	Exciton oscillator strength in magnetic-field-induced spin superlattices CdTe/(Cd,Mn)Te. Physical Review B, 1992, 46, 7713-7722.	3.2	94

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37	Suppression of superfluidity of exciton-polaritons by magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 358, 227-230.	2.1	94
38	Build up and pinning of linear polarization in the Bose condensates of exciton polaritons. Physical Review B, 2007, 75, .	3.2	93
39	Transition from strong to weak coupling and the onset of lasing in semiconductor microcavities. Physical Review B, 2002, 65, .	3.2	91
40	Optical valley Hall effect for highly valley-coherent exciton-polaritons in an atomically thin semiconductor. Nature Nanotechnology, 2019, 14, 770-775.	31.5	87
41	Spontaneous Coherence Buildup in a Polariton Laser. Physical Review Letters, 2004, 93, .	7.8	85
42	Interference of Coherent Polariton Beams in Microcavities: Polarization-Controlled Optical Gates. Physical Review Letters, 2007, 99, 196402.	7.8	81
43	Rotation of the plane of polarization of light in a semiconductor microcavity. Physical Review B, 2006, 73, .	3.2	79
44	Effects of Bose-Einstein condensation of exciton polaritons in microcavities on the polarization of emitted light. Physical Review B, 2006, 73, .	3.2	78
45	Spin Currents in a Coherent Exciton Gas. Physical Review Letters, 2013, 110, 246403.	7.8	78
46	Optical anisotropy and pinning of the linear polarization of light in semiconductor microcavities. Solid State Communications, 2006, 139, 511-515.	1.9	77
47	Exciton mediated self-organization in glass driven by ultrashort light pulses. Applied Physics Letters, 2012, 101, 053120.	3.3	76
48	Tuning the chemiluminescence of a luminol flow using plasmonic nanoparticles. Light: Science and Applications, 2016, 5, e16164-e16164.	16.6	76
49	Spin dynamics of exciton polaritons in microcavities. Physica Status Solidi (B): Basic Research, 2005, 242, 2271-2289.	1.5	75
50	Polariton laser and polariton superfluidity in microcavities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 306, 187-199.	2.1	73
51	Polariton laser: thermodynamics and quantum kinetic theory. Semiconductor Science and Technology, 2003, 18, S395-S404.	2.0	70
52	Stochastic polarization formation in exciton-polariton Bose-Einstein condensates. Physical Review B, 2009, 80, .	3.2	69
53	Semiconductor microcavity as a spin-dependent optoelectronic device. Physical Review B, 2004, 70, .	3.2	68
54	Chemical equilibrium between excitons, electrons, and negatively charged excitons in semiconductor quantum wells. Physical Review B, 1999, 59, 1602-1604.	3.2	67

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55	Cavity-polariton dispersion and polarization splitting in single and coupled semiconductor microcavities. Physics of the Solid State, 1999, 41, 1223-1238.	0.6	66
56	Excitonâ€“polariton spectra and limiting factors for the room-temperature photoluminescence efficiency in ZnO. Semiconductor Science and Technology, 2005, 20, S67-S77.	2.0	66
57	Exciton radiative properties in nonpolar homoepitaxial ZnO/(Zn,Mg)O quantum wells. Physical Review B, 2011, 84, .	3.2	66
58	Polarization beats in ballistic propagation of exciton-polaritons in microcavities. Physical Review B, 2007, 75, .	3.2	64
59	Stimulated emission of terahertz radiation by exciton-polariton lasers. Applied Physics Letters, 2010, 97, .	3.3	63
60	Zero-field spin quantum beats in charged quantum dots. Physical Review B, 2002, 65, .	3.2	62
61	Reflection and absorption spectra from microcavities with resonant Bragg quantum wells. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1061.	2.1	61
62	Proposal for a Bosonic Cascade Laser. Physical Review Letters, 2013, 110, 047402.	7.8	61
63	Chiral Modes at Exceptional Points in Exciton-Polariton Quantum Fluids. Physical Review Letters, 2018, 120, 065301.	7.8	59
64	Polariton-polariton scattering in microcavities: A microscopic theory. Physical Review B, 2009, 80, .	3.2	58
65	Optically induced splitting of bright excitonic states in coupled quantum microcavities. Physical Review B, 1998, 57, 14877-14881.	3.2	57
66	Suppression of Zeeman Splitting of the Energy Levels of Exciton-Polariton Condensates in Semiconductor Microcavities in an External Magnetic Field. Physical Review Letters, 2011, 106, 257401.	7.8	57
67	Vertical Cavity Surface Emitting Terahertz Laser. Physical Review Letters, 2012, 108, 197401.	7.8	57
68	Magnetic-field enhancement of the exciton-polariton splitting in a semiconductor quantum-well microcavity: The strong coupling threshold. Physical Review B, 1996, 54, 1975-1981.	3.2	56
69	Bosonic condensation of excitonâ€“polaritons in an atomically thin crystal. Nature Materials, 2021, 20, 1233-1239.	27.5	56
70	Spin noise spectroscopy of a single quantum well microcavity. Physical Review B, 2014, 89, .	3.2	55
71	Spin Rings in Semiconductor Microcavities. Physical Review Letters, 2008, 100, 116401.	7.8	54
72	Spin Rings in Bistable Planar Semiconductor Microcavities. Physical Review Letters, 2010, 105, 216403.	7.8	54

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73	Polariton-induced optical asymmetry in semiconductor microcavities. Physical Review B, 1998, 58, 15367-15370.	3.2	53
74	Motional narrowing of inhomogeneously broadened excitons in a semiconductor microcavity: Semiclassical treatment. Physical Review B, 1998, 57, 3757-3760.	3.2	53
75	Spontaneous Symmetry Breaking in a Polariton and Photon Laser. Physical Review Letters, 2012, 109, 016404.	7.8	53
76	Spin dynamics of interacting exciton polaritons in microcavities. Physical Review B, 2004, 70, .	3.2	52
77	Crossover from photon to exciton-polariton lasing. New Journal of Physics, 2012, 14, 105003.	2.9	52
78	Motion of Spin Polariton Bullets in Semiconductor Microcavities. Physical Review Letters, 2011, 107, 146402.	7.8	51
79	Polariton condensates for classical and quantum computing. Nature Reviews Physics, 2022, 4, 435-451.	26.6	51
80	Polariton Motional Narrowing in Semiconductor Multiple Quantum Wells. Physical Review Letters, 1998, 80, 3567-3570.	7.8	50
81	Excitons in nitride heterostructures: From zero- to one-dimensional behavior. Physical Review B, 2013, 88, .	3.2	50
82	Qubits Based on Polariton Rabi Oscillators. Physical Review Letters, 2014, 112, 196403.	7.8	50
83	Monolayered MoSe ₂ : a candidate for room temperature polaritonics. 2D Materials, 2017, 4, 015006.	4.4	50
84	Weak lasing in one-dimensional polariton superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1516-9.	7.1	49
85	Observation of bosonic condensation in a hybrid monolayer MoSe2-GaAs microcavity. Nature Communications, 2018, 9, 3286.	12.8	49
86	GaN microcavities: Giant Rabi splitting and optical anisotropy. Applied Physics Letters, 1998, 72, 2880-2881.	3.3	48
87	Bosonic Lasing from Collective Exciton Magnetic Polarons in Diluted Magnetic Nanowires and Nanobelts. ACS Photonics, 2016, 3, 1809-1817.	6.6	48
88	Generation and Dynamics of Vortex Lattices in Coherent Exciton-Polariton Fields. Physical Review Letters, 2008, 101, 187401.	7.8	47
89	Superradiant Terahertz Emission by Dipolaritons. Physical Review Letters, 2013, 111, 176401.	7.8	47
90	Polarization shaping of PoincarÃ© beams by polariton oscillations. Light: Science and Applications, 2015, 4, e350-e350.	16.6	47

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91	Nontrivial Phase Coupling in Polariton Multiplets. Physical Review X, 2016, 6, .	8.9	47
92	Resonant Faraday rotation in a semiconductor microcavity. Physical Review B, 1997, 56, 1087-1090.	3.2	46
93	Photonic Bloch oscillations in laterally confined Bragg mirrors. Physical Review B, 2000, 61, 4413-4416.	3.2	46
94	Spin Transport of Excitons. Nano Letters, 2009, 9, 4204-4208.	9.1	46
95	Nontrivial relaxation dynamics of excitons in high-quality InGaAs/GaAs quantum wells. Physical Review B, 2015, 91, .	3.2	46
96	Parabolic polarization splitting of Tamm states in a metal-organic microcavity. Applied Physics Letters, 2012, 100, 062101.	3.3	44
97	Resonant Rayleigh Scattering of Exciton-Polaritons in Multiple Quantum Wells. Physical Review Letters, 2000, 85, 650-653.	7.8	43
98	Spin-to-orbital angular momentum conversion in semiconductor microcavities. Physical Review B, 2011, 83, .	3.2	42
99	Dynamical Theory of Polariton Amplifiers. Physical Review Letters, 2003, 91, 156403.	7.8	41
100	Whispering gallery polaritons in cylindrical cavities. Physical Review B, 2007, 75, .	3.2	41
101	Exciton oscillator strength in quantum wells: From localized to free resonant states. Physical Review B, 1994, 50, 8000-8003.	3.2	40
102	Excitation of vortices in semiconductor microcavities. Physical Review B, 2007, 75, .	3.2	40
103	Theory of two-dimensional magnetic polarons in an external magnetic field. Semiconductor Science and Technology, 1993, 8, 191-196.	2.0	39
104	Excitionic light reflection and absorption in semiconductor microcavities at oblique incidence. Solid State Communications, 1995, 95, 859-862.	1.9	38
105	Anomalies of a Nonequilibrium Spinor Polariton Condensate in a Magnetic Field. Physical Review Letters, 2014, 112, 093902.	7.8	38
106	Spin noise explores local magnetic fields in a semiconductor. Scientific Reports, 2016, 6, 21062.	3.3	38
107	Observation of hybrid Tamm-plasmon exciton- polaritons with GaAs quantum wells and a MoSe2 monolayer. Nature Communications, 2017, 8, 259.	12.8	38
108	Anisotropic optical spin Hall effect in semiconductor microcavities. Physical Review B, 2009, 80, .	3.2	37

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109	The behaviour of excitonâ€“polaritons. Nature Photonics, 2012, 6, 2-2.	31.4	37
110	Giant enhancement of polariton relaxation in semiconductor microcavities by polariton-free carrier interaction:â€ƒExperimental evidence and theory. Physical Review B, 2003, 67, .	3.2	36
111	Exciton polaritons in two-dimensional dichalcogenide layers placed in a planar microcavity: Tunable interaction between two Bose-Einstein condensates. Physical Review B, 2015, 92, .	3.2	36
112	Exciton-Polariton Fano Resonance Driven by Second Harmonic Generation. Physical Review Letters, 2017, 118, 063602.	7.8	36
113	Valley polarized relaxation and upconversion luminescence from Tamm-plasmon trionâ€“polaritons with a MoSe ₂ monolayer. 2D Materials, 2017, 4, 025096.	4.4	36
114	Observation of macroscopic valley-polarized monolayer exciton-polaritons at room temperature. Physical Review B, 2017, 96, .	3.2	35
115	The interplay between excitons and trions in a monolayer of MoSe2. Applied Physics Letters, 2018, 112, .	3.3	35
116	Exciton-polaritons in microcavities: present and future. Applied Physics A: Materials Science and Processing, 2007, 89, 241-246.	2.3	34
117	Spin noise of exciton polaritons in microcavities. Physical Review B, 2013, 88, .	3.2	34
118	Room-Temperature Spin Polariton Diode Laser. Physical Review Letters, 2017, 119, 067701.	7.8	34
119	Pinning and Depinning of the Polarization of Exciton-Polariton Condensates at Room Temperature. Physical Review Letters, 2010, 104, 166402.	7.8	33
120	Measurements of nuclear spin dynamics by spin-noise spectroscopy. Applied Physics Letters, 2015, 106, .	3.3	33
121	Injection of Orbital Angular Momentum and Storage of Quantized Vortices in Polariton Superfluids. Physical Review Letters, 2016, 116, 116402.	7.8	33
122	All-optical quantum fluid spin beam splitter. Physical Review B, 2018, 97, .	3.2	32
123	Split-ring polariton condensates as macroscopic two-level quantum systems. Physical Review Research, 2021, 3, .	3.6	32
124	Giant Nernst-Ettingshausen Oscillations in Semiclassically Strong Magnetic Fields. Physical Review Letters, 2011, 107, 016601.	7.8	30
125	Optical bistability in electrically driven polariton condensates. Physical Review B, 2015, 91, .	3.2	30
126	Coexistence of low threshold lasing and strong coupling in microcavities. Journal of Applied Physics, 2004, 95, 2487-2489.	2.5	29

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127	Rotons in a Hybrid Bose-Fermi System. Physical Review Letters, 2010, 105, 140402.	7.8	29
128	Permanent Rabi oscillations in coupled exciton-photon systems with PT -symmetry. Scientific Reports, 2016, 6, 19551.	3.3	29
129	Photon echo transients from an inhomogeneous ensemble of semiconductor quantum dots. Physical Review B, 2016, 93, .	3.2	28
130	Dispersion of bulk exciton polaritons in a semiconductor microcavity. Physical Review B, 1996, 54, 14566-14571.	3.2	27
131	Exciton polaritons in long-period quantum-well structures. Semiconductors, 1998, 32, 90-95.	0.5	27
132	Electron-hole plasma effect on excitons inGaN/AlxGa1â^'xNquantum wells. Physical Review B, 2000, 61, 15621-15624.	3.2	27
133	Exciton Supersolidity in Hybrid Bose-Fermi Systems. Physical Review Letters, 2012, 108, 060401.	7.8	27
134	Hyperbolic Metamaterials with Bragg Polaritons. Physical Review Letters, 2015, 114, 237402.	7.8	27
135	Persistent circular currents of exciton-polaritons in cylindrical pillar microcavities. Physical Review B, 2018, 97, .	3.2	27
136	Spatial coherence of room-temperature monolayer WSe2 exciton-polaritons in a trap. Nature Communications, 2021, 12, 6406.	12.8	27
137	Exclusion principle and screening of excitons inGaN/AlxGa1â^'xNquantum wells. Physical Review B, 2001, 63, .	3.2	26
138	Optical properties of InN with stoichoimetry violation and indium clustering. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 377-382.	1.8	26
139	Ghost Branch Photoluminescence From a Polariton Fluid Under Nonresonant Excitation. Physical Review Letters, 2015, 115, 186401.	7.8	26
140	Nonlinear optical spectroscopy of indirect excitons in coupled quantum wells. Physical Review B, 2015, 91, .	3.2	26
141	Exciton-mediated superconductivity. Nature Materials, 2016, 15, 599-600.	27.5	26
142	Statistics of excitons in quantum dots and their effect on the optical emission spectra of microcavities. Physical Review B, 2006, 73, .	3.2	25
143	Generic picture of the emission properties of III-nitride polariton laser diodes: Steady state and current modulation response. Physical Review B, 2012, 86, .	3.2	25
144	Excitonic Fine Structure in Emission of Linear Carbon Chains. Nano Letters, 2020, 20, 6502-6509.	9.1	25

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145	Extremely sharp dependence of the exciton oscillator strength on quantum-well width in theGaN/AlxGa1â^'xNsystem:â€,The polarization field effect. Physical Review B, 2001, 64, .	3.2	24
146	Resonant Light Delay in GaN with Ballistic and Diffusive Propagation. Physical Review Letters, 2008, 100, 087402.	7.8	24
147	Signature of the microcavity excitonâ€“polariton relaxation mechanism in the polarization of emitted light. Physical Review B, 2009, 79, .	3.2	24
148	Superconductivity with excitons and polaritons: review and extension. Journal of Nanophotonics, 2012, 6, 064502.	1.0	24
149	Interplay of Phonon and Exciton-Mediated Superconductivity in Hybrid Semiconductor-Superconductor Structures. Physical Review Letters, 2018, 120, 107001.	7.8	24
150	Anisotropic exchange splitting of excitonic levels in small quantum systems. Superlattices and Microstructures, 1998, 23, 1205-1209.	3.1	23
151	Picosecond beats in coherent optical spectra of semiconductor heterostructures: photonic Bloch and exciton-polariton oscillations. Semiconductor Science and Technology, 2001, 16, R1-R23.	2.0	23
152	Observation of spin beats at the Rabi frequency in microcavities. Physical Review B, 2006, 74, .	3.2	23
153	Polarization controlled nonlinear transmission of light through semiconductor microcavities. Physical Review B, 2009, 79, .	3.2	23
154	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. Physical Review B, 2017, 95, .	3.2	23
155	Spontaneous Polariton Currents in Periodic Lateral Chains. Physical Review Letters, 2017, 119, 067406.	7.8	23
156	Exciton resonance reflection from quantum well, quantum wire and quantum dot structures. Superlattices and Microstructures, 1992, 12, 317-320.	3.1	22
157	Renormalized dispersion of elementary excitations in spinor polariton condensates. Superlattices and Microstructures, 2007, 41, 313-320.	3.1	22
158	Dispersion of interacting spinor cavity polaritons out of thermal equilibrium. Physical Review B, 2008, 77, .	3.2	22
159	Excitonâ€polaritons in microcavities: Recent discoveries and perspectives. Physica Status Solidi (B): Basic Research, 2010, 247, 1898-1906.	1.5	22
160	Josephson coupling of Bose-Einstein condensates of exciton-polaritons in semiconductor microcavities. Physical Review B, 2010, 81, .	3.2	22
161	Optically trapped polariton condensates as semiclassical time crystals. Physical Review A, 2019, 99, .	2.5	22
162	Coupling between one-dimensional excitons and two-dimensional photons: Quantum wires in a microcavity. Physical Review B, 1996, 54, 1490-1493.	3.2	21

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163	Theory of propagation and scattering of excitonâ€“polaritons in quantum wells. Solid State Communications, 2001, 120, 259-263.	1.9	21
164	Non-linear coupling of polariton and dark exciton states in semiconductor microcavities. Solid State Communications, 2005, 135, 1-6.	1.9	21
165	Coherent spin dynamics of exciton-polaritons in diluted magnetic microcavities. Physical Review B, 2006, 73, .	3.2	21
166	Anomalous thermoelectric and thermomagnetic properties of graphene. Physics-Uspekhi, 2012, 55, 1146-1151.	2.2	21
167	Giant absorption of light by molecular vibrations on a chip. Scientific Reports, 2016, 6, 21201.	3.3	21
168	Lasing in Bose-Fermi mixtures. Scientific Reports, 2016, 6, 20091.	3.3	21
169	Collective exciton magnetic polarons in quantum wells with semimagnetic barriers. Physical Review B, 1998, 57, R4261-R4264.	3.2	20
170	Propagation of exciton polaritons in inhomogeneous semiconductor films. Physical Review B, 1999, 60, 16788-16798.	3.2	20
171	Ballistic spin transport in exciton gases. Physical Review B, 2013, 88, .	3.2	20
172	Controllable structuring of exciton-polariton condensates in cylindrical pillar microcavities. Physical Review B, 2015, 91, .	3.2	19
173	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="italic">Zitterbewegung</mml:mi></mml:math> of exciton-polaritons. Physical Review B, 2018, 97, .	3.2	19
174	Circular polariton currents with integer and fractional orbital angular momenta. Physical Review Research, 2021, 3, .	3.6	19
175	Polariton acceleration in a microcavity wedge. Physical Review B, 2001, 64, .	3.2	18
176	Nonlinear effects in spin relaxation of cavity polaritons. Semiconductors, 2007, 41, 1080-1091.	0.5	18
177	Magnetic field effect on polarization and dispersion of exciton-polaritons in planar microcavities. Physical Review B, 2008, 78, .	3.2	18
178	Whispering-gallery exciton polaritons in submicron spheres. Physical Review B, 2009, 79, .	3.2	18
179	Datta-and-Das spin transistor controlled by a high-frequency electromagnetic field. Physical Review B, 2016, 93, .	3.2	18
180	Tuning the Near-Infrared Absorption of Aromatic Amines on Tapered Fibers Sculptured with Gold Nanoparticles. ACS Photonics, 2018, 5, 2200-2207.	6.6	18

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181	Ultrafast Coherent Carrier Control in Quantum Wells. Physica Status Solidi (B): Basic Research, 1997, 204, 9-15.	1.5	17
182	Exciton-light coupling in quantum wells: From motional narrowing to superradiance. Physical Review B, 1998, 57, R12697-R12700.	3.2	17
183	Quantization of entropy in a quasi-two-dimensional electron gas. Physical Review B, 2016, 93, .	3.2	17
184	Entropy spikes as a signature of Lifshitz transitions in the Dirac materials. Scientific Reports, 2017, 7, 10271.	3.3	17
185	Detection of topological phase transitions through entropy measurements: The case of germanene. Physical Review B, 2018, 97, .	3.2	17
186	Polariton polarization rectifier. Light: Science and Applications, 2019, 8, 79.	16.6	17
187	Exciton polaritons in a cylindrical microcavity with an embedded quantum wire. Physical Review B, 2000, 61, 13791-13797.	3.2	16
188	Quantum kinetic equations for interacting bosons and their application for polariton parametric oscillators. Physical Review B, 2007, 76, .	3.2	16
189	Suppression of Zeeman splitting and polarization steps in localized exciton-polariton condensates. Physical Review B, 2008, 77, .	3.2	16
190	Terahertz lasing in a polariton system: Quantum theory. Physical Review B, 2011, 83, .	3.2	16
191	Prediction of thermomagnetic and thermoelectric properties for novel materials and systems. Europhysics Letters, 2013, 103, 47005.	2.0	16
192	Tuning the Energy of a Polariton Condensate via Bias-Controlled Rabi Splitting. Physical Review Applied, 2014, 2, .	3.8	16
193	One-dimensional Tamm plasmons: Spatial confinement, propagation, and polarization properties. Physical Review B, 2017, 96, .	3.2	16
194	Three coupled oscillators: normal mode coupling in a microcavity with two different quantum wells. Optics Letters, 1996, 21, 994.	3.3	15
195	Donor bound or negatively charged excitons in thinCdTe/Cd1â^'xMnxTequantum wells. Physical Review B, 1998, 58, 4082-4088.	3.2	15
196	The rise of the bosonic laser. Nature Photonics, 2013, 7, 591-592.	31.4	15
197	Magnetic control of polariton spin transport. Communications Physics, 2019, 2, .	5.3	15
198	Persistent Currents in Half-Moon Polariton Condensates. ACS Photonics, 2020, 7, 1163-1170.	6.6	15

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199	Interface photonic states at the boundary between a metal and a dielectric Bragg mirror. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 522-525.	1.8	14
200	Interplay between superfluidity and magnetic self-trapping of exciton polaritons. Physical Review B, 2009, 80, .	3.2	14
201	Spin-orbit coupling and the topology of gases of spin-degenerate cold excitons in photoexcited GaAs-AlGaAs quantum wells. Physical Review B, 2012, 86, .	3.2	14
202	Exciton-like electromagnetic excitations in non-ideal microcavity supercrystals. Scientific Reports, 2014, 4, 6945.	3.3	14
203	Enhanced thermoelectric coupling near electronic phase transition: The role of fluctuation Cooper pairs. Physical Review B, 2015, 91, .	3.2	14
204	Strong coupling and stimulated emission in single parabolic quantum well microcavity for terahertz cascade. Applied Physics Letters, 2015, 107, 101101.	3.3	14
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