

Alexey Kavokin

List of Publications by Year in descending order

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444
papers

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citations

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455
docs citations

455
times ranked

7427
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-Selective Currents of Tamm Polaritons. <i>Physical Review Applied</i> , 2022, 17, .	1.5	3
2	Femtosecond Dynamics of a Polariton Bosonic Cascade at Room Temperature. <i>Nano Letters</i> , 2022, 22, 2023-2029.	4.5	7
3	Stochastic Single-Shot Polarization Pinning of Polariton Condensate at High Temperatures. <i>Physical Review Letters</i> , 2022, 128, 117401.	2.9	4
4	Polariton condensates for classical and quantum computing. <i>Nature Reviews Physics</i> , 2022, 4, 435-451.	11.9	51
5	Exciton energy spectra in polyene chains. <i>Physical Review Research</i> , 2021, 3, .	1.3	5
6	Giant synthetic gauge field for spinless microcavity polaritons in crossed electric and magnetic fields. <i>New Journal of Physics</i> , 2021, 23, 023024.	1.2	5
7	Nernst and Ettingshausen effects in the Laughlin geometry. <i>Physical Review Research</i> , 2021, 3, .	1.3	0
8	Field-Induced Assembly of sp-sp ² Carbon Sponges. <i>Nanomaterials</i> , 2021, 11, 763.	1.9	7
9	Exciton radiative lifetime in a monoatomic carbon chain. <i>New Journal of Physics</i> , 2021, 23, 033007.	1.2	1
10	Polygonal patterns of confined light. <i>Optics Letters</i> , 2021, 46, 1836.	1.7	5
11	Formation of Fractal Dendrites by Laser-Induced Melting of Aluminum Alloys. <i>Nanomaterials</i> , 2021, 11, 1043.	1.9	5
12	Bosonic condensation of exciton-polaritons in an atomically thin crystal. <i>Nature Materials</i> , 2021, 20, 1233-1239.	13.3	56
13	Magnetic field induced formation of a stationary charge density wave in a conducting Möbius stripe. <i>Physical Review B</i> , 2021, 103, .	1.1	0
14	Optical control of a dark exciton reservoir. <i>Physical Review B</i> , 2021, 104, .	1.1	3
15	Terahertz transitions in finite carbon chains. <i>Physical Review Research</i> , 2021, 3, .	1.3	2
16	Circular polariton currents with integer and fractional orbital angular momenta. <i>Physical Review Research</i> , 2021, 3, .	1.3	19
17	Split-ring polariton condensates as macroscopic two-level quantum systems. <i>Physical Review Research</i> , 2021, 3, .	1.3	32
18	Anomalous Exciton Hall Effect. <i>Physical Review Letters</i> , 2021, 126, 036801.	2.9	10

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19	Strong light-matter coupling in microcavities characterised by Rabi-splittings comparable to the Bragg stop-band widths. <i>New Journal of Physics</i> , 2021, 23, 113015.	1.2	6
20	Spatial coherence of room-temperature monolayer WSe ₂ exciton-polaritons in a trap. <i>Nature Communications</i> , 2021, 12, 6406.	5.8	27
21	Spontaneous symmetry breaking in persistent currents of spinor polaritons. <i>Scientific Reports</i> , 2021, 11, 22382.	1.6	6
22	A perturbation theory approach to the ground state exciton energy in the limit of a weak magnetic field in anomalous exciton Hall effect. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012135.	0.3	0
23	Proposed Model of the Giant Thermal Hall Effect in Two-Dimensional Superconductors: An Extension to the Superconducting Fluctuation Regime. <i>Physical Review Letters</i> , 2020, 125, 217005.	2.9	2
24	Excitonic Fine Structure in Emission of Linear Carbon Chains. <i>Nano Letters</i> , 2020, 20, 6502-6509.	4.5	25
25	Manipulation of room-temperature valley-coherent exciton-polaritons in atomically thin crystals by real and artificial magnetic fields. <i>2D Materials</i> , 2020, 7, 035025.	2.0	10
26	Hybrid optical fiber for light-induced superconductivity. <i>Scientific Reports</i> , 2020, 10, 8131.	1.6	10
27	Electric field assisted alignment of monoatomic carbon chains. <i>Scientific Reports</i> , 2020, 10, 9709.	1.6	14
28	The Nernst effect in Corbino geometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2846-2851.	3.3	6
29	Persistent Currents in Half-Moon Polariton Condensates. <i>ACS Photonics</i> , 2020, 7, 1163-1170.	3.2	15
30	Magnetic control over the zitterbewegung of exciton-polaritons. <i>New Journal of Physics</i> , 2020, 22, 083059.	1.2	10
31	Spin noise signatures of the self-induced Larmor precession. <i>Physical Review Research</i> , 2020, 2, .	1.3	9
32	Exciton-polariton interference controlled by electric field. <i>Physical Review Research</i> , 2020, 2, .	1.3	8
33	Chiral condensates in a polariton hexagonal ring. <i>Optics Letters</i> , 2020, 45, 5700.	1.7	2
34	Exciton energy oscillations induced by quantum beats. <i>Physical Review B</i> , 2020, 102, .	1.1	0
35	Optical valley Hall effect for highly valley-coherent exciton-polaritons in an atomically thin semiconductor. <i>Nature Nanotechnology</i> , 2019, 14, 770-775.	15.6	87
36	Self-Trapping of Exciton-Polariton Condensates in GaAs Microcavities. <i>Physical Review Letters</i> , 2019, 123, 047401.	2.9	12

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37	Polariton polarization rectifier. <i>Light: Science and Applications</i> , 2019, 8, 79.	7.7	17
38	On the Suppression of Electron-Hole Exchange Interaction in a Reservoir of Nonradiative Excitons. <i>Semiconductors</i> , 2019, 53, 1170-1174.	0.2	3
39	Optically trapped polariton condensates as semiclassical time crystals. <i>Physical Review A</i> , 2019, 99, .	1.0	22
40	Nanosecond Spin Coherence Time of Nonradiative Excitons in GaAs/AlGaAs Quantum Wells. <i>Physical Review Letters</i> , 2019, 122, 147401.	2.9	13
41	Giant spin Meissner effect in a nonequilibrium exciton-polariton gas. <i>Physical Review B</i> , 2019, 99, .	1.1	13
42	Magnetic control of polariton spin transport. <i>Communications Physics</i> , 2019, 2, .	2.0	15
43	The optical control of phase locking of polariton condensates. <i>New Journal of Physics</i> , 2019, 21, 113009.	1.2	4
44	Tracking Dark Excitons with Exciton Polaritons in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2019, 122, 047403.	2.9	13
45	Interplay of Phonon and Exciton-Mediated Superconductivity in Hybrid Semiconductor-Superconductor Structures. <i>Physical Review Letters</i> , 2018, 120, 107001.	2.9	24
46	Chiral Modes at Exceptional Points in Exciton-Polariton Quantum Fluids. <i>Physical Review Letters</i> , 2018, 120, 065301.	2.9	59
47	The interplay between excitons and trions in a monolayer of MoSe ₂ . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	35
48	Tuning the Near-Infrared Absorption of Aromatic Amines on Tapered Fibers Sculptured with Gold Nanoparticles. <i>ACS Photonics</i> , 2018, 5, 2200-2207.	3.2	18
49	Entropy Signatures of Topological Phase Transitions. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 958-983.	0.2	9
50	Spin Domains in One-Dimensional Conservative Polariton Solitons. <i>ACS Photonics</i> , 2018, 5, 5095-5102.	3.2	13
51	Hidden polarization of unpolarized light. <i>Physical Review A</i> , 2018, 98, .	1.0	6
52	Heat-assisted self-localization of exciton polaritons. <i>Physical Review B</i> , 2018, 98, .	1.1	10
53	Persistent circular currents of exciton-polaritons in cylindrical pillar microcavities. <i>Physical Review B</i> , 2018, 97, .	1.1	27
54	Detection of topological phase transitions through entropy measurements: The case of germanene. <i>Physical Review B</i> , 2018, 97, .	1.1	17

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55	Effects of elastic strain and structural defects on slow light modes in a one-dimensional array of microcavities. Superlattices and Microstructures, 2018, 120, 642-649.	1.4	6
56	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="italic"} \rangle \text{Zitterbewegung} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ of exciton-polaritons. Physical Review B, 2018, 97, .	1.1	19
57	An exciton-polariton bolometer for terahertz radiation detection. Scientific Reports, 2018, 8, 10092.	1.6	11
58	Design for a Nanoscale Single-Photon Spin Splitter for Modes with Orbital Angular Momentum. Physical Review Letters, 2018, 121, 053901.	2.9	7
59	Optically induced transparency in bosonic cascade lasers. Optics Letters, 2018, 43, 259.	1.7	4
60	Observation of bosonic condensation in a hybrid monolayer MoSe ₂ -GaAs microcavity. Nature Communications, 2018, 9, 3286.	5.8	49
61	All-optical quantum fluid spin beam splitter. Physical Review B, 2018, 97, .	1.1	32
62	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. Physical Review B, 2017, 95, .	1.1	23
63	Exciton-Polariton Fano Resonance Driven by Second Harmonic Generation. Physical Review Letters, 2017, 118, 063602.	2.9	36
64	Valley polarized relaxation and upconversion luminescence from Tamm-plasmon trion polaritons with a MoSe ₂ monolayer. 2D Materials, 2017, 4, 025096.	2.0	36
65	Dynamics of the optical spin Hall effect. Physical Review B, 2017, 96, .	1.1	6
66	Artificial gravity effect on spin-polarized exciton-polaritons. Scientific Reports, 2017, 7, 9797.	1.6	8
67	Entropy spikes as a signature of Lifshitz transitions in the Dirac materials. Scientific Reports, 2017, 7, 10271.	1.6	17
68	Exciton-polariton Josephson junctions at finite temperatures. Scientific Reports, 2017, 7, 9515.	1.6	9
69	Observation of hybrid Tamm-plasmon exciton-polaritons with GaAs quantum wells and a MoSe ₂ monolayer. Nature Communications, 2017, 8, 259.	5.8	38
70	Room-Temperature Spin Polariton Diode Laser. Physical Review Letters, 2017, 119, 067701.	2.9	34
71	Spontaneous Polariton Currents in Periodic Lateral Chains. Physical Review Letters, 2017, 119, 067406.	2.9	23
72	Observation of macroscopic valley-polarized monolayer exciton-polaritons at room temperature. Physical Review B, 2017, 96, .	1.1	35

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73	Formation of Mn doped $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskite microrods and their collective EMP lasing. Journal of Physics Communications, 2017, 1, 055018.	0.5	13
74	Ferromagnetism in the vicinity of Lifshitz topological transitions. Physical Review B, 2017, 96, .	1.1	0
75	Photoinduced absorption of THz radiation in semi-insulating GaAs crystal. Physics of the Solid State, 2017, 59, 1298-1301.	0.2	3
76	Inverse-phase Rabi oscillations in semiconductor microcavities. Physical Review B, 2017, 95, .	1.1	0
77	Scattering of an exciton polariton by impurity centers in GaAs. Journal of Experimental and Theoretical Physics, 2017, 124, 657-664.	0.2	1
78	Effect of a Coulomb well in (In, Ga)As/GaAs quantum wells. Physics of the Solid State, 2017, 59, 1154-1170.	0.2	3
79	Monolayered MoSe_2 : a candidate for room temperature polaritonics. 2D Materials, 2017, 4, 015006.	2.0	50
80	Impurity-induced modulation of terahertz waves in optically excited GaAs. AIP Advances, 2017, 7, .	0.6	5
81	Control of light propagation in modified semiconductor Bragg mirrors with embedded quantum wells. , 2017, , .		0
82	One-dimensional Tamm plasmons: Spatial confinement, propagation, and polarization properties. Physical Review B, 2017, 96, .	1.1	16
83	Spin-polarization dynamics of exciton polaritons under the artificial gravitation effect in wedged microcavities. , 2017, , .		0
84	Light propagation in semiconductor resonant exciton-polariton hyperbolic metamaterials. , 2017, , .		0
85	Giant absorption of light by molecular vibrations on a chip. Scientific Reports, 2016, 6, 21201.	1.6	21
86	The role of defects in lowering the effective polariton temperature in electric and optically pumped polariton lasers. Applied Physics Letters, 2016, 108, 041102.	1.5	9
87	Bosonic lasers: The state of the art (Review Article). Low Temperature Physics, 2016, 42, 323-329.	0.2	7
88	Linearly and circularly polarized ultraviolet GaN microcavity polariton lasers. , 2016, , .		0
89	Exciton-mediated superconductivity. Nature Materials, 2016, 15, 599-600.	13.3	26
90	On the mechanism of the maintenance of Rabi oscillations in the system of exciton polaritons in a microcavity. JETP Letters, 2016, 103, 51-56.	0.4	2

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91	Bosonic Lasing from Collective Exciton Magnetic Polarons in Diluted Magnetic Nanowires and Nanobelts. ACS Photonics, 2016, 3, 1809-1817.	3.2	48
92	Hyperbolic metamaterials based on Bragg polariton structures. JETP Letters, 2016, 104, 62-67.	0.4	7
93	Output polarization characteristics of a GaN microcavity diode polariton laser. Physical Review B, 2016, 94, .	1.1	13
94	Light propagation in tunable exciton-polariton one-dimensional photonic crystals. Physical Review B, 2016, 94, .	1.1	13
95	Second-order correlations in an exciton-polariton Rabi oscillator. Physical Review B, 2016, 93, .	1.1	2
96	Influence of magnetic quantum confined Stark effect on the spin lifetime of indirect excitons. Physical Review B, 2016, 93, .	1.1	8
97	Photon echo transients from an inhomogeneous ensemble of semiconductor quantum dots. Physical Review B, 2016, 93, .	1.1	28
98	Dynamics of the energy relaxation in a parabolic quantum well laser. Physical Review B, 2016, 93, .	1.1	8
99	Quantization of entropy in a quasi-two-dimensional electron gas. Physical Review B, 2016, 93, .	1.1	17
100	Datta-and-Das spin transistor controlled by a high-frequency electromagnetic field. Physical Review B, 2016, 93, .	1.1	18
101	Injection of Orbital Angular Momentum and Storage of Quantized Vortices in Polariton Superfluids. Physical Review Letters, 2016, 116, 116402.	2.9	33
102	Spin noise of a polariton laser. Physical Review B, 2016, 93, .	1.1	8
103	Permanent Rabi oscillations in coupled exciton-photon systems with PT -symmetry. Scientific Reports, 2016, 6, 19551.	1.6	29
104	On the condensation of exciton polaritons in microcavities induced by a magnetic field. Semiconductors, 2016, 50, 1506-1510.	0.2	4
105	Tuning the chemiluminescence of a luminol flow using plasmonic nanoparticles. Light: Science and Applications, 2016, 5, e16164-e16164.	7.7	76
106	Room-temperature Tamm-plasmon exciton-polaritons with a WSe2 monolayer. Nature Communications, 2016, 7, 13328.	5.8	214
107	Nontrivial Phase Coupling in Polariton Multiplets. Physical Review X, 2016, 6, .	2.8	47
108	Lasing in Bose-Fermi mixtures. Scientific Reports, 2016, 6, 20091.	1.6	21

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109	Spin noise explores local magnetic fields in a semiconductor. <i>Scientific Reports</i> , 2016, 6, 21062.	1.6	38
110	Exact solution of two phase spherical Stefan problem with two free boundaries. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	5
111	Controlled switching between quantum states in the excitonâ€“polariton condensate. <i>JETP Letters</i> , 2016, 103, 313-315.	0.4	2
112	Superconductivity in semiconductor structures: The excitonic mechanism. <i>Superlattices and Microstructures</i> , 2016, 90, 170-175.	1.4	10
113	Quantum statistics of bosonic cascades. <i>New Journal of Physics</i> , 2016, 18, 023041.	1.2	10
114	Polaritons in a nonideal periodic array of microcavities. <i>Superlattices and Microstructures</i> , 2016, 89, 409-418.	1.4	5
115	Papers submitted to the 16th International Conference on the Physics of Light-Matter Coupling in Nanostructures, PLMCN 2015 (MedellÃn, Colombia). <i>Superlattices and Microstructures</i> , 2015, 87, 1-4.	1.4	0
116	Nontrivial relaxation dynamics of excitons in high-quality InGaAs/GaAs quantum wells. <i>Physical Review B</i> , 2015, 91, .	1.1	46
117	Spin waves in semiconductor microcavities. <i>Physical Review B</i> , 2015, 91, .	1.1	7
118	Significant photoinduced Kerr rotation achieved in semiconductor microcavities. <i>Physical Review B</i> , 2015, 91, .	1.1	2
119	Multiple-frequency quantum beats of quantum confined exciton states. <i>Physical Review B</i> , 2015, 92, .	1.1	11
120	Exciton polaritons in two-dimensional dichalcogenide layers placed in a planar microcavity: Tunable interaction between two Bose-Einstein condensates. <i>Physical Review B</i> , 2015, 92, .	1.1	36
121	Hyperbolic Metamaterials with Bragg Polaritons. <i>Physical Review Letters</i> , 2015, 114, 237402.	2.9	27
122	Ghost Branch Photoluminescence From a Polariton Fluid Under Nonresonant Excitation. <i>Physical Review Letters</i> , 2015, 115, 186401.	2.9	26
123	Nonlinear optical spectroscopy of indirect excitons in coupled quantum wells. <i>Physical Review B</i> , 2015, 91, .	1.1	26
124	Magnetization currents of fluctuating Cooper pairs. <i>Physical Review B</i> , 2015, 92, .	1.1	3
125	Small-signal modulation characteristics of a polariton laser. <i>Scientific Reports</i> , 2015, 5, 11915.	1.6	8
126	Exciton-photon correlations in bosonic condensates of exciton-polaritons. <i>Scientific Reports</i> , 2015, 5, 12020.	1.6	8

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127	Measurements of nuclear spin dynamics by spin-noise spectroscopy. Applied Physics Letters, 2015, 106, .	1.5	33
128	Diffusive Propagation of Exciton-Polaritons through Thin Crystal Slabs. Scientific Reports, 2015, 5, 11474.	1.6	6
129	Optical bistability in electrically driven polariton condensates. Physical Review B, 2015, 91, .	1.1	30
130	Enhanced thermoelectric coupling near electronic phase transition: The role of fluctuation Cooper pairs. Physical Review B, 2015, 91, .	1.1	14
131	Polarization shaping of Poincaré beams by polariton oscillations. Light: Science and Applications, 2015, 4, e350-e350.	7.7	47
132	Bose-Einstein condensates as quantum nonlinear hyperbolic metamaterials, 2015, , .		0
133	Quantum hyperbolic metamaterials with exciton-polaritons in semiconductor Bragg mirrors. , 2015, , .		0
134	Weak lasing in one-dimensional polariton superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1516-9.	3.3	49
135	Controllable structuring of exciton-polariton condensates in cylindrical pillar microcavities. Physical Review B, 2015, 91, .	1.1	19
136	Spin noise amplification and giant noise in optical microcavity. Journal of Applied Physics, 2015, 117, .	1.1	8
137	Strong coupling and stimulated emission in single parabolic quantum well microcavity for terahertz cascade. Applied Physics Letters, 2015, 107, 101101.	1.5	14
138	Optical Bistability in Electrically Driven Polariton Condensates. , 2015, , .		0
139	Ultra-fast spinor switching in polariton condensates. , 2014, , .		1
140	Exciton-polariton oscillations in real space. Physical Review B, 2014, 90, .	1.1	11
141	Two-photon injection of polaritons in semiconductor microstructures. Optics Letters, 2014, 39, 307.	1.7	10
142	Qubits Based on Polariton Rabi Oscillators. Physical Review Letters, 2014, 112, 196403.	2.9	50
143	Optics of spin-noise-induced gyrotropy of an asymmetric microcavity. Physical Review B, 2014, 89, .	1.1	7
144	Excited states of exciton-polariton condensates in 2D and 1D harmonic traps. Physical Review B, 2014, 89, .	1.1	6

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145	Ring-shaped polariton lasing in pillar microcavities. <i>Journal of Applied Physics</i> , 2014, 115, 094304.	1.1	13
146	Nonlinear optical probe of indirect excitons. <i>Physical Review B</i> , 2014, 89, .	1.1	12
147	Exciton-polariton laser diodes. , 2014, , .		2
148	Spin noise spectroscopy of a single quantum well microcavity. <i>Physical Review B</i> , 2014, 89, .	1.1	55
149	Bistability in bosonic terahertz lasers. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 085303.	0.7	4
150	Polarised two-photon excitation of quantum well excitons for manipulation of optically pumped terahertz lasers. <i>Physica B: Condensed Matter</i> , 2014, 453, 146-150.	1.3	0
151	Scale Invariance and Universality in a Cold Gas of Indirect Excitons. <i>Physical Review Letters</i> , 2014, 112, 036401.	2.9	12
152	Tuning the Energy of a Polariton Condensate via Bias-Controlled Rabi Splitting. <i>Physical Review Applied</i> , 2014, 2, .	1.5	16
153	A historic experiment redesigned. <i>Nature</i> , 2014, 514, 313-314.	13.7	7
154	Anomalies of a Nonequilibrium Spinor Polariton Condensate in a Magnetic Field. <i>Physical Review Letters</i> , 2014, 112, 093902.	2.9	38
155	Exciton-like electromagnetic excitations in non-ideal microcavity supercrystals. <i>Scientific Reports</i> , 2014, 4, 6945.	1.6	14
156	The rise of the bosonic laser. <i>Nature Photonics</i> , 2013, 7, 591-592.	15.6	15
157	Spin noise of exciton polaritons in microcavities. <i>Physical Review B</i> , 2013, 88, .	1.1	34
158	Polariton condensation in an optically induced two-dimensional potential. <i>Physical Review B</i> , 2013, 88, .	1.1	108
159	Superradiant Terahertz Emission by Dipolaritons. <i>Physical Review Letters</i> , 2013, 111, 176401.	2.9	47
160	Terahertz emitter based on dipolaritons. , 2013, , .		0
161	Exciton decay through plasmon modes in planar metal-semiconductor structures. <i>Physical Review B</i> , 2013, 87, .	1.1	4
162	Excitons in nitride heterostructures: From zero- to one-dimensional behavior. <i>Physical Review B</i> , 2013, 88, .	1.1	50

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163	Exciton condensation in microcavities under three-dimensional quantization conditions. Semiconductors, 2013, 47, 1492-1495.	0.2	0
164	Prediction of thermomagnetic and thermoelectric properties for novel materials and systems. Europhysics Letters, 2013, 103, 47005.	0.7	16
165	Ballistic spin transport in exciton gases. Physical Review B, 2013, 88, .	1.1	20
166	Proposal for a Bosonic Cascade Laser. Physical Review Letters, 2013, 110, 047402.	2.9	61
167	Spin Currents in a Coherent Exciton Gas. Physical Review Letters, 2013, 110, 246403.	2.9	78
168	Exciton-polariton lasers in Magnetic Fields. , 2013, , .		2
169	Polarization Control of Optically Pumped Terahertz Lasers. Materials Research Society Symposia Proceedings, 2013, 1617, 199-204.	0.1	0
170	Polariton transport in one-dimensional channels. Physical Review B, 2013, 88, .	1.1	5
171	Condensed exciton polaritons in a two-dimensional trap: Elementary excitations and shaping by a Gaussian pump beam. Physical Review B, 2013, 87, .	1.1	9
172	Polarization selection rules in exciton-based terahertz lasers. Physical Review B, 2013, 88, .	1.1	4
173	Bosonic Cascade Terahertz Lasers. , 2013, , .		0
174	Bosonic Spin Transport. Springer Series in Solid-state Sciences, 2013, , 39-50.	0.3	0
175	Superconductivity with excitons and polaritons: review and extension. Journal of Nanophotonics, 2012, 6, 064502.	0.4	24
176	Crossover from photon to exciton-polariton lasing. New Journal of Physics, 2012, 14, 105003.	1.2	52
177	Spin-orbit coupling and the topology of gases of spin-degenerate cold excitons in photoexcited GaAs-AlGaAs quantum wells. Physical Review B, 2012, 86, .	1.1	14
178	Exciton mediated self-organization in glass driven by ultrashort light pulses. Applied Physics Letters, 2012, 101, 053120.	1.5	76
179	Anomalous thermoelectric and thermomagnetic properties of graphene. Physics-Uspexhi, 2012, 55, 1146-1151.	0.8	21
180	Propagation and Amplification Dynamics of 1D Polariton Condensates. Physical Review Letters, 2012, 109, 216404.	2.9	106

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181	Generic picture of the emission properties of III-nitride polariton laser diodes: Steady state and current modulation response. <i>Physical Review B</i> , 2012, 86, .	1.1	25
182	Nonlinear Optical Spin Hall Effect and Long-Range Spin Transport in Polariton Lasers. <i>Physical Review Letters</i> , 2012, 109, 036404.	2.9	115
183	Vertical Cavity Surface Emitting Terahertz Laser. <i>Physical Review Letters</i> , 2012, 108, 197401.	2.9	57
184	Exciton Supersolidity in Hybrid Bose-Fermi Systems. <i>Physical Review Letters</i> , 2012, 108, 060401.	2.9	27
185	Spontaneous coherence in a cold exciton gas. <i>Nature</i> , 2012, 483, 584-588.	13.7	263
186	The behaviour of excitonâ€“polaritons. <i>Nature Photonics</i> , 2012, 6, 2-2.	15.6	37
187	Polariton pendulum. <i>Nature Physics</i> , 2012, 8, 183-184.	6.5	2
188	Parabolic polarization splitting of Tamm states in a metal-organic microcavity. <i>Applied Physics Letters</i> , 2012, 100, 062101.	1.5	44
189	Spontaneous Symmetry Breaking in a Polariton and Photon Laser. <i>Physical Review Letters</i> , 2012, 109, 016404.	2.9	53
190	Spin Effects in Excitonâ€“Polariton Condensates. <i>Springer Series in Solid-state Sciences</i> , 2012, , 233-244.	0.3	1
191	Photon and Polariton Condensates in Microcavities. , 2012, , .		0
192	Probing the Dynamics of Spontaneous Quantum Vortices in Polariton Superfluids. <i>Physical Review Letters</i> , 2011, 106, 115301.	2.9	110
193	Increase of the chemical potential and phase transitions in four-component exciton condensates subject to magnetic fields. <i>Physical Review B</i> , 2011, 84, .	1.1	12
194	Exciton radiative properties in nonpolar homoepitaxial ZnO/(Zn,Mg)O quantum wells. <i>Physical Review B</i> , 2011, 84, .	1.1	66
195	Giant Nernst-Ettingshausen Oscillations in Semiclassically Strong Magnetic Fields. <i>Physical Review Letters</i> , 2011, 107, 016601.	2.9	30
196	Quantum information with semiconductor nanostructures. , 2011, , .		0
197	Dielectric and structural properties of diffuse ferroelectric phase transition in $\text{Pb}_{1.85}\text{K}_{1.15}\text{Li}_{0.15}\text{Nb}_5\text{O}_{15}$ ceramic. <i>EPJ Applied Physics</i> , 2011, 53, 20901.	0.3	4
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