List of Publications by Year in descending order

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ALREDTO AMO

#	Article	IF	CITATIONS
1	Topological photonics. Reviews of Modern Physics, 2019, 91, .	45.6	2,190
2	Superfluidity of polaritons in semiconductor microcavities. Nature Physics, 2009, 5, 805-810.	16.7	795
3	Lasing in topological edge states of a one-dimensional lattice. Nature Photonics, 2017, 11, 651-656.	31.4	625
4	Collective fluid dynamics of a polariton condensate in a semiconductor microcavity. Nature, 2009, 457, 291-295.	27.8	494
5	Polariton Superfluids Reveal Quantum Hydrodynamic Solitons. Science, 2011, 332, 1167-1170.	12.6	379
6	Direct Observation of Dirac Cones and a Flatband in a Honeycomb Lattice for Polaritons. Physical Review Letters, 2014, 112, 116402.	7.8	352
7	Exciton–polariton spin switches. Nature Photonics, 2010, 4, 361-366.	31.4	337
8	Bosonic Condensation and Disorder-Induced Localization in a Flat Band. Physical Review Letters, 2016, 116, 066402.	7.8	246
9	Macroscopic quantum self-trapping and Josephson oscillations of exciton polaritons. Nature Physics, 2013, 9, 275-279.	16.7	244
10	Active topological photonics. Nanophotonics, 2020, 9, 547-567.	6.0	170
11	Polariton condensation in solitonic gap states in a one-dimensional periodic potential. Nature Communications, 2013, 4, 1749.	12.8	155
12	All-optical control of the quantum flow of a polariton condensate. Nature Photonics, 2011, 5, 610-614.	31.4	143
13	Probing a Dissipative Phase Transition via Dynamical Optical Hysteresis. Physical Review Letters, 2017, 118, 247402.	7.8	142
14	Half-solitons in a polariton quantum fluid behave like magnetic monopoles. Nature Physics, 2012, 8, 724-728.	16.7	131
15	Spin-Orbit Coupling for Photons and Polaritons in Microstructures. Physical Review X, 2015, 5, .	8.9	131
16	Emergence of quantum correlations from interacting fibre-cavity polaritons. Nature Materials, 2019, 18, 213-218.	27.5	128
17	Polariton Condensation in Photonic Molecules. Physical Review Letters, 2012, 108, 126403.	7.8	124
18	All-optical phase modulation in a cavity-polariton Mach–Zehnder interferometer. Nature Communications, 2014, 5, 3278.	12.8	123

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19	Realization of a Double-Barrier Resonant Tunneling Diode for Cavity Polaritons. Physical Review Letters, 2013, 110, 236601.	7.8	118
20	Acoustic Black Hole in a Stationary Hydrodynamic Flow of Microcavity Polaritons. Physical Review Letters, 2015, 114, 036402.	7.8	114
21	Optically controlling the emission chirality of microlasers. Nature Photonics, 2019, 13, 283-288.	31.4	109
22	Propagation and Amplification Dynamics of 1D Polariton Condensates. Physical Review Letters, 2012, 109, 216404.	7.8	106
23	Fractal Energy Spectrum of a Polariton Gas in a Fibonacci Quasiperiodic Potential. Physical Review Letters, 2014, 112, 146404.	7.8	104
24	Light engineering of the polariton landscape in semiconductor microcavities. Physical Review B, 2010, 82, .	3.2	92
25	Exciton-polaritons in lattices: A non-linear photonic simulator. Comptes Rendus Physique, 2016, 17, 934-945.	0.9	85
26	Orbital Edge States in a Photonic Honeycomb Lattice. Physical Review Letters, 2017, 118, 107403.	7.8	79
27	Surface-enhanced gallium arsenide photonic resonator with quality factor of 6 × 10^6. Optica, 2017, 4 218.	' 9.3	78
28	Optical anisotropy and pinning of the linear polarization of light in semiconductor microcavities. Solid State Communications, 2006, 139, 511-515.	1.9	77
29	Interaction-induced hopping phase in driven-dissipative coupled photonic microcavities. Nature Communications, 2016, 7, 11887.	12.8	74
30	Type-III and Tilted Dirac Cones Emerging from Flat Bands in Photonic Orbital Graphene. Physical Review X, 2019, 9, .	8.9	72
31	Polariton-generated intensity squeezing in semiconductor micropillars. Nature Communications, 2014, 5, 3260.	12.8	71
32	Measuring topological invariants from generalized edge states in polaritonic quasicrystals. Physical Review B, 2017, 95, .	3.2	70
33	Realization of an all optical exciton-polariton router. Applied Physics Letters, 2015, 107, .	3.3	66
34	Emergence of criticality through a cascade of delocalization transitions in quasiperiodic chains. Nature Physics, 2020, 16, 832-836.	16.7	64
35	Edge states in polariton honeycomb lattices. 2D Materials, 2015, 2, 034012.	4.4	58
36	Roadmap on topological photonics. JPhys Photonics, 2022, 4, 032501.	4.6	56

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37	Spin Rings in Bistable Planar Semiconductor Microcavities. Physical Review Letters, 2010, 105, 216403.	7.8	54
38	Motion of Spin Polariton Bullets in Semiconductor Microcavities. Physical Review Letters, 2011, 107, 146402.	7.8	51
39	Revealing the dark side of a bright exciton–polariton condensate. Nature Communications, 2014, 5, 4648.	12.8	51
40	Unstable and stable regimes of polariton condensation. Optica, 2018, 5, 1163.	9.3	47
41	Microcavity polaritons for topological photonics [Invited]. Optical Materials Express, 2021, 11, 1119.	3.0	43
42	Interplay of exciton and electron-hole plasma recombination on the photoluminescence dynamics in bulk GaAs. Physical Review B, 2006, 73, .	3.2	40
43	Gap solitons in a one-dimensional driven-dissipative topological lattice. Nature Physics, 2022, 18, 678-684.	16.7	40
44	Phase-Controlled Bistability of a Dark Soliton Train in a Polariton Fluid. Physical Review Letters, 2016, 117, 217401.	7.8	39
45	Nonlinear Polariton Fluids in a Flatband Reveal Discrete Gap Solitons. Physical Review Letters, 2019, 123, 113901.	7.8	39
46	Direct observation of photonic Landau levels and helical edge states in strained honeycomb lattices. Light: Science and Applications, 2020, 9, 144.	16.6	38
47	Polaritonic XY-Ising machine. Nanophotonics, 2020, 9, 4127-4138.	6.0	38
48	Anisotropic optical spin Hall effect in semiconductor microcavities. Physical Review B, 2009, 80, .	3.2	37
49	Exciton-polariton condensation in a natural two-dimensional trap. Physical Review B, 2009, 80, .	3.2	36
50	Dispersion relation of the collective excitations in a resonantly driven polariton fluid. Nature Communications, 2019, 10, 3869.	12.8	36
51	Observation of Long-Lived Polariton States in Semiconductor Microcavities across the Parametric Threshold. Physical Review Letters, 2009, 102, 056402.	7.8	32
52	Nonequilibrium polariton condensate in a magnetic field. Physical Review B, 2015, 91, .	3.2	29
53	Semi-Dirac Transport and Anisotropic Localization in Polariton Honeycomb Lattices. Physical Review Letters, 2020, 125, 186601.	7.8	29
54	Dynamics of the Formation and Decay of Coherence in a Polariton Condensate. Physical Review Letters, 2009, 103, 096404.	7.8	25

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55	Microcavity Polaritons for Quantum Simulation. Advanced Quantum Technologies, 2020, 3, 2000052.	3.9	25
56	Klein tunneling in driven-dissipative photonic graphene. Physical Review A, 2017, 96, .	2.5	21
57	Polariton fluids for analogue gravity physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190225.	3.4	21
58	Transition from the strong- to the weak-coupling regime in semiconductor microcavities: Polarization dependence. Applied Physics Letters, 2007, 90, 201905.	3.3	20
59	Photoluminescence dynamics in GaAs along an optically induced Mott transition. Journal of Applied Physics, 2007, 101, 081717.	2.5	20
60	Experimental observation of edge states in SSH-Stub photonic lattices. Physical Review Research, 2022, 4, .	3.6	19
61	Backscattering Suppression in Supersonic 1D Polariton Condensates. Physical Review Letters, 2012, 108, 036405.	7.8	18
62	Collective dynamics of excitons and polaritons in semiconductor nanostructures. Semiconductor Science and Technology, 2010, 25, 043001.	2.0	16
63	Quantum confinement of zero-dimensional hybrid organic-inorganic polaritons at room temperature. Applied Physics Letters, 2014, 104, .	3.3	15
64	Parametric instability in coupled nonlinear microcavities. Physical Review A, 2020, 102, .	2.5	15
65	Nonreciprocity and zero reflection in nonlinear cavities with tailored loss. Physical Review A, 2019, 99, .	2.5	14
66	Topological Swing of Bloch Oscillations in Quantum Walks. Physical Review Letters, 2020, 125, 186804.	7.8	14
67	Picosecond optical spectroscopy of a single negatively charged self-assembled InAs quantum dot. Applied Physics Letters, 2010, 97, 113110.	3.3	13
68	Stochastic precession of the polarization in a polariton laser. Physical Review B, 2016, 93, .	3.2	13
69	Multi-orbital tight binding model for cavity-polariton lattices. Journal of Physics Condensed Matter, 2020, 32, 315402.	1.8	13
70	Measuring Topological Invariants in a Polaritonic Analog of Graphene. Physical Review Letters, 2021, 126, 127403.	7.8	13
71	Few-photon all-optical phase rotation in a quantum-well micropillar cavity. Nature Photonics, 2022, 16, 566-569.	31.4	13
72	Polariton and spin dynamics in semiconductor microcavities under non-resonant excitation. Journal of Physics Condensed Matter, 2007, 19, 295204.	1.8	12

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73	Pauli blockade of the electron spin flip in bulk GaAs. Physical Review B, 2007, 75, .	3.2	12
74	Interplay between weak localization of exciton-polaritons and the optical spin Hall effect. Physical Review B, 2009, 79, .	3.2	12
75	Two-photon injection of polaritons in semiconductor microstructures. Optics Letters, 2014, 39, 307.	3.3	10
76	Theoretical study of stimulated and spontaneous Hawking effects from an acoustic black hole in a hydrodynamically flowing fluid of light. Physical Review B, 2016, 94, .	3.2	9
77	Chiral emission induced by optical Zeeman effect in polariton micropillars. Physical Review Research, 2021, 3, .	3.6	9
78	Evaluation of oscillator strength in colloidal CdSe/CdS dotsâ€inâ€rods. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2688-2691.	0.8	8
79	Comment on "Linear Wave Dynamics Explains Observations Attributed to Dark Solitons in a Polariton Quantum Fluid― Physical Review Letters, 2015, 115, 089401.	7.8	8
80	Dynamics of polaritons resonantly created at the upper polariton branch. Superlattices and Microstructures, 2007, 41, 328-332.	3.1	7
81	Observation of the zero-magnetic-field exciton spin splitting in high quality bulk GaAs and AlGaAs. Applied Physics Letters, 2009, 95, 182107.	3.3	7
82	When quantum optics meets topology. Science, 2018, 359, 638-639.	12.6	7
83	Nonlinear Polariton Localization in Strongly Coupled Driven-Dissipative Microcavities. ACS Photonics, 2018, 5, 95-99.	6.6	7
84	Orbital angular momentum bistability in a microlaser. Optics Letters, 2019, 44, 4531.	3.3	7
85	Striking dynamics of II-VI microcavity polaritons after linearly polarized excitation. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3880-3883.	0.8	6
86	Polariton condensates put in motion. Nanotechnology, 2010, 21, 134025.	2.6	6
87	Lasing in optically induced gap states in photonic graphene. , 2018, 5, .		6
88	Angular switching of the linear polarization of the emission in InGaAs microcavities. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3868-3871.	0.8	5
89	Influence of trapping on the exciton dynamics of AlxGa1â^'xAs films. Applied Physics Letters, 2005, 86, 111906.	3.3	5
90	Single-shot measurement of the photonic band structure in a fiber-based Floquet-Bloch lattice. Communications Physics, 2021, 4, .	5.3	5

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91	Polarization dynamics of microcavity polaritons: Three excitation regimes. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 357-361.	1.8	3
92	Optically induced ultrafast quenching of the semiconductor quantum well luminescence. Applied Physics Letters, 2008, 92, 061912.	3.3	3
93	Reversal of spin polarization direction in excitonic photoluminescence of AlGaAs. Europhysics Letters, 2009, 88, 17001.	2.0	3
94	Photonic Topological Materials: feature introduction. Optical Materials Express, 2021, 11, 1592.	3.0	3
95	Superfluidity in polariton condensates. Journal of Physics: Conference Series, 2010, 210, 012060.	0.4	2
96	Quantum fluid properties of polaritons in semiconductor microcavities. Journal of Modern Optics, 2010, 57, 1900-1907.	1.3	2
97	Dynamics of Polariton Emission in the Linear Regime. Acta Physica Polonica A, 2004, 106, 443-450.	0.5	2
98	Ultrafast tailoring of the exciton distribution in quantum wells. Physica Status Solidi (B): Basic Research, 2008, 245, 1064-1066.	1.5	1
99	Spatial distribution of strong and weak coupled exciton–polaritons in semiconductor microcavities. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2049-2052.	2.7	1
100	Exciton-formation time obtained from the spin splitting dynamics. Journal of Physics: Conference Series, 2010, 210, 012002.	0.4	1
101	Microcavity design for low threshold polariton condensation with ultrashort optical pulse excitation. Journal of Applied Physics, 2015, 117, 205702.	2.5	1
102	Foreword – Strong light–matter coupling in solid-state systems: A historical perspective. Comptes Rendus Physique, 2016, 17, 805-807.	0.9	1
103	Fluides quantiques de lumière dans les microcavités à semi-conducteurs. , 2016, , 4-9.	0.1	1
104	Polariton relaxation after resonant pumping at the upper polariton branch under doublyâ€resonant Raman scattering conditions. Physica Status Solidi (B): Basic Research, 2008, 245, 1081-1084.	1.5	0
105	Effects of disorder on the polariton condensates in CdTe microcavities. , 2010, , .		0
106	Observation of a Long-Lived Polariton State in Semiconductor Microcavities. , 2010, , .		0
107	Quantum information with semiconductor nanostructures. , 2011, , .		0
108	Buildup and decay of the coherence in a polariton condensate. , 2011, , .		0

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109	Observation of Oblique Half-Solitons in polariton Superfluids. , 2012, , .		0
110	COHERENT INJECTION OF MICROCAVITIES POLARITON THROUGH TWO PHOTON EXCITATION. , 2012, , .		0
111	Cavity Polaritons: Crossroad Between Non-Linear Optics and Atomic Condensates. , 2014, , 207-239.		0
112	Femtosecond terahertz dynamics of cooperative transitions: from charge density waves to polariton condensates. Proceedings of SPIE, 2016, , .	0.8	0
113	Polariton lasing in the edge states of an orbital SSH chain. , 2017, , .		Ο
114	Optical circuits cross dimensions. Nature Photonics, 2020, 14, 68-69.	31.4	0
115	Photonic Topological Materials feature issue: publisher's note. Optical Materials Express, 2021, 11, 1410.	3.0	Ο
116	Semi-Dirac transport and localization in polaritonic graphene. , 2021, , .		0
117	Macroscopic Self-trapping and Non-linear Oscillations in Coupled Polariton Condensates. , 2012, , .		0
118	Superfluidity and Hydrodynamic Topological Excitations of Microcavity Polaritons. Springer Series in Solid-state Sciences, 2012, , 215-232.	0.3	0
119	Quantum coherence in polariton fluids. , 2013, , .		0
120	Time-resolved Terahertz Mapping of a Cold Exciton-Polariton Gas. , 2013, , .		0
121	Polariton Quantum Fluids and Devices. Springer Series in Solid-state Sciences, 2013, , 127-155.	0.3	0
122	Quantum coherence in polariton fluids. , 2013, , .		0