

Marc Assmann

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

1,400
citations

20
h-index

36
g-index

75
ext. papers

1,733
ext. citations

6
avg, IF

4.51
L-index

#	Paper	IF	Citations
64	Direct observation of correlations between individual photon emission events of a microcavity laser. <i>Nature</i> , 2009 , 460, 245-9	50.4	167
63	Higher-order photon bunching in a semiconductor microcavity. <i>Science</i> , 2009 , 325, 297-300	33.3	91
62	Exciton and trion dynamics in atomically thin MoSe ₂ and WSe ₂ : Effect of localization. <i>Physical Review B</i> , 2016 , 94,	3.3	88
61	Giant photon bunching, superradiant pulse emission and excitation trapping in quantum-dot nanolasers. <i>Nature Communications</i> , 2016 , 7, 11540	17.4	78
60	Compressive adaptive computational ghost imaging. <i>Scientific Reports</i> , 2013 , 3, 1545	4.9	72
59	Quantum chaos and breaking of all anti-unitary symmetries in Rydberg excitons. <i>Nature Materials</i> , 2016 , 15, 741-5	27	71
58	Observation of High Angular Momentum Excitons in Cuprous Oxide. <i>Physical Review Letters</i> , 2015 , 115, 027402	7.4	63
57	From polariton condensates to highly photonic quantum degenerate states of bosonic matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1804-9	11.5	63
56	Deviations of the exciton level spectrum in Cu ₂ O from the hydrogen series. <i>Physical Review B</i> , 2016 , 93,	3.3	55
55	Characterization of two-threshold behavior of the emission from a GaAs microcavity. <i>Physical Review B</i> , 2012 , 85,	3.3	51
54	Scaling laws of Rydberg excitons. <i>Physical Review B</i> , 2017 , 96,	3.3	44
53	Enhanced light-matter interaction in an atomically thin semiconductor coupled with dielectric nano-antennas. <i>Nature Communications</i> , 2019 , 10, 5119	17.4	42
52	High-resolution study of the yellow excitons in Cu ₂ O subject to an electric field. <i>Physical Review B</i> , 2017 , 95,	3.3	38
51	Magnetoexcitons in cuprous oxide. <i>Physical Review B</i> , 2017 , 95,	3.3	35
50	All-optical flow control of a polariton condensate using nonresonant excitation. <i>Physical Review B</i> , 2015 , 91,	3.3	33
49	Measuring the dynamics of second-order photon correlation functions inside a pulse with picosecond time resolution. <i>Optics Express</i> , 2010 , 18, 20229-41	3.3	33
48	Ultrafast tracking of second-order photon correlations in the emission of quantum-dot microresonator lasers. <i>Physical Review B</i> , 2010 , 81,	3.3	32

47	Signatures of Quantum Coherences in Rydberg Excitons. <i>Physical Review Letters</i> , 2016 , 117, 133003	7.4	32
46	Realization of all-optical vortex switching in exciton-polariton condensates. <i>Nature Communications</i> , 2020 , 11, 897	17.4	22
45	All-optical control of quantized momenta on a polariton staircase. <i>Physical Review B</i> , 2012 , 85,	3.3	20
44	Rydberg Excitons in the Presence of an Ultralow-Density Electron-Hole Plasma. <i>Physical Review Letters</i> , 2018 , 121, 097401	7.4	18
43	Influence of interactions with noncondensed particles on the coherence of a one-dimensional polariton condensate. <i>Physical Review B</i> , 2014 , 89,	3.3	17
42	Quantum-memory effects in the emission of quantum-dot microcavities. <i>Physical Review Letters</i> , 2014 , 113, 093902	7.4	15
41	Photon-Statistics Excitation Spectroscopy of a Quantum-Dot Micropillar Laser. <i>Physical Review Letters</i> , 2015 , 115, 027401	7.4	15
40	Spectroscopy of fractional orbital angular momentum states. <i>Optics Express</i> , 2018 , 26, 32248-32258	3.3	15
39	Coupled valence band dispersions and the quantum defect of excitons in Cu ₂ O. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 134003	1.3	15
38	Temperature dependence of pulsed polariton lasing in a GaAs microcavity. <i>New Journal of Physics</i> , 2012 , 14, 083014	2.9	13
37	Experimental realization of a polariton beam amplifier. <i>Physical Review B</i> , 2016 , 93,	3.3	12
36	Nonlinearity sensing via photon-statistics excitation spectroscopy. <i>Physical Review A</i> , 2011 , 84,	2.6	12
35	Dissociation of excitons in Cu ₂ O by an electric field. <i>Physical Review B</i> , 2018 , 98,	3.3	11
34	Magneto-Stark effect of yellow excitons in cuprous oxide. <i>Physical Review B</i> , 2018 , 98,	3.3	11
33	Eavesdropping attack on a trusted continuous-variable quantum random-number generator. <i>Physical Review A</i> , 2019 , 100,	2.6	11
32	Nonlinear spectroscopy of exciton-polaritons in a GaAs-based microcavity. <i>Physical Review B</i> , 2014 , 90,	3.3	10
31	Real time g monitoring with 100 kHz sampling rate. <i>Optics Express</i> , 2018 , 26, 24854-24863	3.3	9
30	Role of phonons in the quantum chaos of Rydberg excitons. <i>Physical Review B</i> , 2017 , 95,	3.3	7

29	Spatial dynamics of stepwise homogeneously pumped polariton condensates. <i>Physical Review B</i> , 2012 , 86,	3-3	7
28	Extrapolation of the intensity autocorrelation function of a quantum-dot micropillar laser into the thermal emission regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 1404	1-7	7
27	Semiconductor Rydberg Physics. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900134	4-3	7
26	Influence of Magnetic Confinement on the Yellow Excitons in Cuprous Oxide Subject to an Electric Field. <i>Physics of the Solid State</i> , 2018 , 60, 1595-1599	0-8	6
25	Determination of operating parameters for a GaAs-based polariton laser. <i>Applied Physics Letters</i> , 2013 , 102, 081115	3-4	6
24	Spin noise of a polariton laser. <i>Physical Review B</i> , 2016 , 93,	3-3	5
23	Dynamics of the optical spin Hall effect. <i>Physical Review B</i> , 2017 , 96,	3-3	5
22	Formation dynamics of exciton-polariton vortices created by nonresonant annular pumping. <i>Physical Review B</i> , 2020 , 101,	3-3	4
21	Streak camera imaging of single photons at telecom wavelength. <i>Applied Physics Letters</i> , 2018 , 112, 031110	3-10	4
20	Coherence time measurements using a single detector with variable time resolution. <i>Optics Letters</i> , 2012 , 37, 2811-3	3	4
19	Tracking Dark Excitons with Exciton Polaritons in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2019 , 122, 047403	7-4	4
18	Conditional spectroscopy via nonstationary optical homodyne quantum state tomography. <i>Physical Review A</i> , 2020 , 101,	2-6	3
17	Degree of entanglement of photon pairs generated from V-type system in microcavity. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 395-398		3
16	Experimental limitation in extending the exciton series in Cu ₂ O towards higher principal quantum numbers. <i>Physical Review B</i> , 2020 , 101,	3-3	3
15	Stochastic pumping of a polariton fluid. <i>Physical Review A</i> , 2015 , 91,	2-6	2
14	Quantum-Optically Enhanced STORM (QUEST) for Multi-Emitter Localization. <i>Scientific Reports</i> , 2018 , 8, 7829	4-9	2
13	Magnetic field effects of Rydberg Excitons in Cu ₂ O 2016 ,		1
12	Influence of the Wavefunction Distribution on Exciton Dissociation in Electric Field. <i>Physics of the Solid State</i> , 2018 , 60, 1506-1509	0-8	1

11	Asymmetric Rydberg blockade of giant excitons in Cuprous Oxide. <i>Nature Communications</i> , 2021 , 12, 3556	17.4	1
10	Critical Dependence of the Excitonic Absorption in Cuprous Oxide on Experimental Parameters. <i>Physics of the Solid State</i> , 2018 , 60, 1618-1624	0.8	1
9	Landau-Level Quantization of the Yellow Excitons in Cuprous Oxide. <i>Physics of the Solid State</i> , 2018 , 60, 1625-1628	0.8	1
8	Quantifying Quantum Coherence in Polariton Condensates. <i>PRX Quantum</i> , 2021 , 2,	6.1	1
7	Analysis of the Fine Structure of the D-Exciton Shell in Cuprous Oxide. <i>Physica Status Solidi - Rapid Research Letters</i> , 2100335	2.5	0
6	Oscillations of the Degree of Circular Polarization in the Optical Spin Hall Effect. <i>Physics of the Solid State</i> , 2018 , 60, 1606-1610	0.8	
5	Photon correlations in semiconductor nanostructures 2012 , 154-185		
4	Ultrafast intensity correlation measurements of quantum dot microcavity lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 399-402		
3	Distinguishing intrinsic photon correlations from external noise with frequency-resolved homodyne detection. <i>Scientific Reports</i> , 2020 , 10, 22411	4.9	
2	Quantum optics with quantum dot ensembles. <i>Semiconductors and Semimetals</i> , 2020 , 105, 235-267	0.6	
1	Rydberg States in Semiconductors 2018 , 40-51		