

# Marc Assmann

## List of Publications by Year in Descending Order

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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	Asymmetric Rydberg blockade of giant excitons in Cuprous Oxide. <i>Nature Communications</i> , <b>2021</b> , 12, 3556	17.4	1
63	Quantifying Quantum Coherence in Polariton Condensates. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	1
62	Formation dynamics of exciton-polariton vortices created by nonresonant annular pumping. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
61	Conditional spectroscopy via nonstationary optical homodyne quantum state tomography. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	3
60	Realization of all-optical vortex switching in exciton-polariton condensates. <i>Nature Communications</i> , <b>2020</b> , 11, 897	17.4	22
59	Distinguishing intrinsic photon correlations from external noise with frequency-resolved homodyne detection. <i>Scientific Reports</i> , <b>2020</b> , 10, 22411	4.9	
58	Semiconductor Rydberg Physics. <i>Advanced Quantum Technologies</i> , <b>2020</b> , 3, 1900134	4.3	7
57	Quantum optics with quantum dot ensembles. <i>Semiconductors and Semimetals</i> , <b>2020</b> , 105, 235-267	0.6	
56	Experimental limitation in extending the exciton series in Cu <sub>2</sub> O towards higher principal quantum numbers. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	3
55	Enhanced light-matter interaction in an atomically thin semiconductor coupled with dielectric nano-antennas. <i>Nature Communications</i> , <b>2019</b> , 10, 5119	17.4	42
54	Tracking Dark Excitons with Exciton Polaritons in Semiconductor Microcavities. <i>Physical Review Letters</i> , <b>2019</b> , 122, 047403	7.4	4
53	Eavesdropping attack on a trusted continuous-variable quantum random-number generator. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	11
52	Streak camera imaging of single photons at telecom wavelength. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 031110	3.1	4
51	Dissociation of excitons in Cu <sub>2</sub> O by an electric field. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	11
50	Influence of the Wavefunction Distribution on Exciton Dissociation in Electric Field. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 1506-1509	0.8	1
49	Magneto-Stark effect of yellow excitons in cuprous oxide. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	11
48	Influence of Magnetic Confinement on the Yellow Excitons in Cuprous Oxide Subject to an Electric Field. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 1595-1599	0.8	6

47	Oscillations of the Degree of Circular Polarization in the Optical Spin Hall Effect. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 1606-1610	0.8	
46	Real time g monitoring with 100 kHz sampling rate. <i>Optics Express</i> , <b>2018</b> , 26, 24854-24863	3.3	9
45	Spectroscopy of fractional orbital angular momentum states. <i>Optics Express</i> , <b>2018</b> , 26, 32248-32258	3.3	15
44	Critical Dependence of the Excitonic Absorption in Cuprous Oxide on Experimental Parameters. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 1618-1624	0.8	1
43	Landau-Level Quantization of the Yellow Excitons in Cuprous Oxide. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 1625-1628	0.8	1
42	Rydberg Excitons in the Presence of an Ultralow-Density Electron-Hole Plasma. <i>Physical Review Letters</i> , <b>2018</b> , 121, 097401	7.4	18
41	Quantum-Optically Enhanced STORM (QUEST) for Multi-Emitter Localization. <i>Scientific Reports</i> , <b>2018</b> , 8, 7829	4.9	2
40	Rydberg States in Semiconductors <b>2018</b> , 40-51		
39	High-resolution study of the yellow excitons in Cu <sub>2</sub> O subject to an electric field. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	38
38	Magnetoexcitons in cuprous oxide. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	35
37	Dynamics of the optical spin Hall effect. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	5
36	Scaling laws of Rydberg excitons. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	44
35	Role of phonons in the quantum chaos of Rydberg excitons. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	7
34	Experimental realization of a polariton beam amplifier. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	12
33	Deviations of the exciton level spectrum in Cu <sub>2</sub> O from the hydrogen series. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	55
32	Spin noise of a polariton laser. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	5
31	Magnetic field effects of Rydberg Excitons in Cu <sub>2</sub> O <b>2016</b> ,		1
30	Coupled valence band dispersions and the quantum defect of excitons in Cu <sub>2</sub> O. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 134003	1.3	15

29	Giant photon bunching, superradiant pulse emission and excitation trapping in quantum-dot nanolasers. <i>Nature Communications</i> , <b>2016</b> , 7, 11540	17.4	78
28	Quantum chaos and breaking of all anti-unitary symmetries in Rydberg excitons. <i>Nature Materials</i> , <b>2016</b> , 15, 741-5	27	71
27	Exciton and trion dynamics in atomically thin MoSe <sub>2</sub> and WSe <sub>2</sub> : Effect of localization. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	88
26	Signatures of Quantum Coherences in Rydberg Excitons. <i>Physical Review Letters</i> , <b>2016</b> , 117, 133003	7.4	32
25	Stochastic pumping of a polariton fluid. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	2
24	All-optical flow control of a polariton condensate using nonresonant excitation. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	33
23	Photon-Statistics Excitation Spectroscopy of a Quantum-Dot Micropillar Laser. <i>Physical Review Letters</i> , <b>2015</b> , 115, 027401	7.4	15
22	Observation of High Angular Momentum Excitons in Cuprous Oxide. <i>Physical Review Letters</i> , <b>2015</b> , 115, 027402	7.4	63
21	Quantum-memory effects in the emission of quantum-dot microcavities. <i>Physical Review Letters</i> , <b>2014</b> , 113, 093902	7.4	15
20	Nonlinear spectroscopy of exciton-polaritons in a GaAs-based microcavity. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	10
19	Influence of interactions with noncondensed particles on the coherence of a one-dimensional polariton condensate. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	17
18	Determination of operating parameters for a GaAs-based polariton laser. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 081115	3.4	6
17	Compressive adaptive computational ghost imaging. <i>Scientific Reports</i> , <b>2013</b> , 3, 1545	4.9	72
16	Photon correlations in semiconductor nanostructures <b>2012</b> , 154-185		
15	Spatial dynamics of stepwise homogeneously pumped polariton condensates. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	7
14	Temperature dependence of pulsed polariton lasing in a GaAs microcavity. <i>New Journal of Physics</i> , <b>2012</b> , 14, 083014	2.9	13
13	Coherence time measurements using a single detector with variable time resolution. <i>Optics Letters</i> , <b>2012</b> , 37, 2811-3	3	4
12	Characterization of two-threshold behavior of the emission from a GaAs microcavity. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	51

11	All-optical control of quantized momenta on a polariton staircase. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	20
10	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> , <b>2011</b> , 28, 1404	1.7	7
9	Nonlinearity sensing via photon-statistics excitation spectroscopy. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	12
8	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> , <b>2011</b> , 108, 1804-9	11.5	63
7	Ultrafast tracking of second-order photon correlations in the emission of quantum-dot microresonator lasers. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	32
6	Measuring the dynamics of second-order photon correlation functions inside a pulse with picosecond time resolution. <i>Optics Express</i> , <b>2010</b> , 18, 20229-41	3.3	33
5	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> , <b>2009</b> , 6, 395-398		3
4	Ultrafast intensity correlation measurements of quantum dot microcavity lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 399-402		
3	Direct observation of correlations between individual photon emission events of a microcavity laser. <i>Nature</i> , <b>2009</b> , 460, 245-9	50.4	167
2	Higher-order photon bunching in a semiconductor microcavity. <i>Science</i> , <b>2009</b> , 325, 297-300	33.3	91
1	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