

Yuri G Rubo

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.

82

papers

2,315

citations

26

h-index

46

g-index

88

ext. papers

2,601

ext. citations

5

avg, IF

4.94

L-index

#	Paper	IF	Citations
82	Engineering spatial coherence in lattices of polariton condensates. <i>Optica</i> , 2021 , 8, 106	8.6	11
81	Long Josephson junctions with exciton-polariton condensates. <i>Physical Review B</i> , 2020 , 101,	3.3	1
80	Emergence of microfrequency comb via limit cycles in dissipatively coupled condensates. <i>Physical Review B</i> , 2020 , 101,	3.3	11
79	Autonomous chaos of exciton-polariton condensates. <i>Physical Review B</i> , 2020 , 101,	3.3	5
78	Partial quantum revivals of localized condensates in distorted lattices. <i>Optics Letters</i> , 2020 , 45, 1571-1574		
77	Polariton polarization rectifier. <i>Light: Science and Applications</i> , 2019 , 8, 79	16.7	9
76	Observation of inversion, hysteresis, and collapse of spin in optically trapped polariton condensates. <i>Physical Review B</i> , 2019 , 99,	3.3	6
75	Optically trapped polariton condensates as semiclassical time crystals. <i>Physical Review A</i> , 2019 , 99,	2.6	11
74	Phase selection and intermittency of exciton-polariton condensates in one-dimensional periodic structures. <i>Physical Review A</i> , 2019 , 100,	2.6	2
73	Pseudodrag of a polariton superfluid. <i>Physical Review B</i> , 2019 , 100,	3.3	4
72	Quantum exciton-polariton networks through inverse four-wave mixing. <i>Physical Review B</i> , 2018 , 97,	3.3	12
71	Stochastic spin flips in polariton condensates: nonlinear tuning from GHz to sub-Hz. <i>New Journal of Physics</i> , 2018 , 20, 075008	2.9	5
70	Excitation of localized condensates in the flat band of the exciton-polariton Lieb lattice. <i>Physical Review B</i> , 2018 , 98,	3.3	8
69	Zitterbewegung of exciton-polaritons. <i>Physical Review B</i> , 2018 , 97,	3.3	9
68	Driven-dissipative spin chain model based on exciton-polariton condensates. <i>Physical Review B</i> , 2017 , 96,	3.3	12
67	Spin Order and Phase Transitions in Chains of Polariton Condensates. <i>Physical Review Letters</i> , 2017 , 119, 067401	7.4	53
66	Spontaneous Polariton Currents in Periodic Lateral Chains. <i>Physical Review Letters</i> , 2017 , 119, 067406	7.4	17

65	Second-order correlations in an exciton-polariton Rabi oscillator. <i>Physical Review B</i> , 2016 , 93,	3.3	1
64	Tunable Magnetic Alignment between Trapped Exciton-Polariton Condensates. <i>Physical Review Letters</i> , 2016 , 116, 106403	7.4	24
63	Permanent Rabi oscillations in coupled exciton-photon systems with PT-symmetry. <i>Scientific Reports</i> , 2016 , 6, 19551	4.9	23
62	Nontrivial Phase Coupling in Polariton Multiplets. <i>Physical Review X</i> , 2016 , 6,	9.1	33
61	Quantum statistics of bosonic cascades. <i>New Journal of Physics</i> , 2016 , 18, 023041	2.9	6
60	Twist of generalized skyrmions and spin vortices in a polariton superfluid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14926-14931	11.5	32
59	A sub-femtojoule electrical spin-switch based on optically trapped polariton condensates. <i>Nature Materials</i> , 2016 , 15, 1074-8	27	59
58	Frequency combs with weakly lasing exciton-polariton condensates. <i>Physical Review Letters</i> , 2015 , 114, 193901	7.4	28
57	Weak lasing in one-dimensional polariton superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1516-9	11.5	42
56	Mirrorless lasing from light emitters in percolating clusters. <i>Physical Review A</i> , 2015 , 92,	2.6	3
55	Spontaneous Spin Bifurcations and Ferromagnetic Phase Transitions in a Spinor Exciton-Polariton Condensate. <i>Physical Review X</i> , 2015 , 5,	9.1	58
54	Exciton-photon correlations in bosonic condensates of exciton-polaritons. <i>Scientific Reports</i> , 2015 , 5, 12020	4.9	6
53	Warping and interactions of vortices in exciton-polariton condensates. <i>Physical Review B</i> , 2014 , 89,	3.3	15
52	Exciton-polariton oscillations in real space. <i>Physical Review B</i> , 2014 , 90,	3.3	10
51	Mean-Field Description of Multicomponent Exciton-Polariton Superfluids. <i>Springer Series in Solid-state Sciences</i> , 2013 , 51-70	0.4	
50	Hyperbolic spin vortices and textures in exciton-polariton condensates. <i>Nature Communications</i> , 2013 , 4, 2590	17.4	31
49	Magnetic properties of graphene quantum dots. <i>Physical Review B</i> , 2013 , 87,	3.3	39
48	Radiative coupling and weak lasing of exciton-polariton condensates. <i>Physical Review B</i> , 2012 , 85,	3.3	55

47	Spin-orbit coupling and the topology of gases of spin-degenerate cold excitons in photoexcited GaAs-AlGaAs quantum wells. <i>Physical Review B</i> , 2012 , 86,	3.3	14
46	Increase of the chemical potential and phase transitions in four-component exciton condensates subject to magnetic fields. <i>Physical Review B</i> , 2011 , 84,	3.3	11
45	Density of states in randomly shaped graphene quantum dots. <i>Superlattices and Microstructures</i> , 2011 , 49, 283-287	2.8	14
44	Half-quantum vortices in exciton-polariton condensates in applied magnetic field. <i>Superlattices and Microstructures</i> , 2011 , 49, 318-324	2.8	3
43	Josephson coupling of Bose-Einstein condensates of exciton-polaritons in semiconductor microcavities. <i>Physical Review B</i> , 2010 , 81,	3.3	20
42	Comment on "Topological stability of the half-vortices in spinor exciton-polariton condensates" <i>Physical Review B</i> , 2010 , 82,	3.3	14
41	Polariton polarization-sensitive phenomena in planar semiconductor microcavities. <i>Semiconductor Science and Technology</i> , 2010 , 25, 013001	1.8	173
40	Pinning and depinning of the polarization of exciton-polariton condensates at room temperature. <i>Physical Review Letters</i> , 2010 , 104, 166402	7.4	27
39	Vortices in exciton-polariton condensates with polarization splitting. <i>Journal of Physics: Conference Series</i> , 2010 , 210, 012024	0.3	10
38	Stochastic polarization formation in exciton-polariton Bose-Einstein condensates. <i>Physical Review B</i> , 2009 , 80,	3.3	57
37	Observation of half-quantum vortices in an exciton-polariton condensate. <i>Science</i> , 2009 , 326, 974-6	33.3	252
36	Signature of the microcavity exciton-polariton relaxation mechanism in the polarization of emitted light. <i>Physical Review B</i> , 2009 , 79,	3.3	23
35	Suppression of Zeeman splitting and polarization steps in localized exciton-polariton condensates. <i>Physical Review B</i> , 2008 , 77,	3.3	15
34	Generation and dynamics of vortex lattices in coherent exciton-polariton fields. <i>Physical Review Letters</i> , 2008 , 101, 187401	7.4	37
33	Polarization multistability of cavity polaritons. <i>Physical Review Letters</i> , 2007 , 98, 236401	7.4	153
32	Renormalized dispersion of elementary excitations in spinor polariton condensates. <i>Superlattices and Microstructures</i> , 2007 , 41, 313-320	2.8	21
31	Polarization beats in ballistic propagation of exciton-polaritons in microcavities. <i>Physical Review B</i> , 2007 , 75,	3.3	56
30	Half vortices in exciton polariton condensates. <i>Physical Review Letters</i> , 2007 , 99, 106401	7.4	104

29	Build up and pinning of linear polarization in the Bose condensates of exciton polaritons. <i>Physical Review B</i> , 2007 , 75,	3.3	88
28	Polarization and propagation of polariton condensates. <i>Physical Review Letters</i> , 2006 , 97, 066402	7.4	134
27	Suppression of superfluidity of exciton-polaritons by magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 358, 227-230	2.3	88
26	Rayleigh scattering in multilayered structures of porous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 3544-3547		9
25	Photon losses in porous silicon microcavities. <i>Physica Status Solidi A</i> , 2005 , 202, 2626-2632		3
24	Kinetics of the polariton condensate formation in a microcavity. <i>Physica Status Solidi A</i> , 2004 , 201, 641-645		11
23	Effect of the electric field on the luminescence of self-supporting porous silicon. <i>Physica Status Solidi A</i> , 2003 , 197, 345-349		4
22	Dissipative quantum theory of polariton lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 1476-1479		2
21	Dynamical theory of polariton amplifiers. <i>Physical Review Letters</i> , 2003 , 91, 156403	7.4	40
20	Polariton laser: thermodynamics and quantum kinetic theory. <i>Semiconductor Science and Technology</i> , 2003 , 18, S395-S404	1.8	67
19	Non-linear transport and a non-equilibrium phase transition in 2D electrons on liquid helium. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1918-1919	2.8	0
18	Dynamics of a 2D Wigner solid in a magnetic field: the plastic limit. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1922-1923	2.8	1
17	Optical Absorption in Porous Silicon. <i>Journal of Porous Materials</i> , 2000 , 7, 279-282	2.4	1
16	Quantum Effects on the Dielectric Function of Porous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 638, 1		
15	Computation of the Porous Silicon Dielectric Function in the Supercell Model and Comparison with Experiment. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 579, 231		
14	Tight-binding description of disordered nanostructures: an application to porous silicon. <i>Applied Surface Science</i> , 1999 , 142, 564-568	6.7	8
13	Supercell approach to the optical properties of porous silicon. <i>Physical Review B</i> , 1999 , 59, 15381-15387	3.3	45
12	Magnetoshear modes and ac dissipation in a two-dimensional Wigner crystal. <i>Physical Review B</i> , 1998 , 58, 13197-13203	3.3	1

- 11 Magnetic-field-induced resonant coupling between 1s- and 3d-exciton states. *Physical Review B*, **1997**, 56, 13113-13117 3-3 2
- 10 Strain broadening of the magnetization steps in diluted magnetic semiconductors. *Physical Review B*, **1997**, 56, 13094-13102 3-3 6
- 9 Bragg-Cherenkov Scattering and Nonlinear Conductivity of a Two-Dimensional Wigner Crystal. *Physical Review Letters*, **1997**, 78, 4813-4816 7-4 50
- 8 Anisotropy of a hole magnetic polaron in a semimagnetic semiconductor. *JETP Letters*, **1996**, 63, 222-226.2 5
- 7 Suppression of the Auger recombination due to spin polarization of excess carriers and Mn²⁺ ions in the semimagnetic semiconductor Cd_{0.95}Mn_{0.05}S. *Physical Review B*, **1995**, 52, R2241-R2244 3-3 73
- 6 Magneto-optical Study of CdCoTe. *Materials Science Forum*, **1995**, 182-184, 503-510 0-4 7
- 5 Temperature and Magnetic Field Dependence of the Free and Bound Exciton Luminescence in CdTe/CdMnTe Quantum Well. *Materials Science Forum*, **1995**, 182-184, 643-646 0-4 2
- 4 The energy spectrum and g-factor of the bound magnetic polaron in a cubic Fe-based diluted magnetic semiconductor. *Journal of Physics Condensed Matter*, **1994**, 6, 6375-6382 1-8 1
- 3 Exchange-induced optical spin transitions in semimagnetic semiconductors. *Physical Review B*, **1993**, 47, 13180-13188 3-3 9
- 2 Anisotropy of two-photon absorption in cubic direct-band-gap semiconductors. *Physical Review B*, **1992**, 45, 5926-5932 3-3 13
- 1 Auger Recombination via Defects in Tellurium. *Physica Status Solidi (B): Basic Research*, **1990**, 162, 531-538 3