

# Yuri G Rubo

## 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.

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 | Observation of half-quantum vortices in an exciton-polariton condensate. <i>Science</i> , <b>2009</b> , 326, 974-6   | 33.3 | 252       |
| 81 | Polariton polarization-sensitive phenomena in planar semiconductor microcavities. <i>Semiconductor Science and Technology</i> , <b>2010</b> , 25, 013001   | 1.8  | 173       |
| 80 | Polarization multistability of cavity polaritons. <i>Physical Review Letters</i> , <b>2007</b> , 98, 236401  | 7.4  | 153       |
| 79 | Polarization and propagation of polariton condensates. <i>Physical Review Letters</i> , <b>2006</b> , 97, 066402   | 7.4  | 134       |
| 78 | Half vortices in exciton polariton condensates. <i>Physical Review Letters</i> , <b>2007</b> , 99, 106401  | 7.4  | 104       |
| 77 | Build up and pinning of linear polarization in the Bose condensates of exciton polaritons. <i>Physical Review B</i> , <b>2007</b> , 75,  | 3.3  | 88        |
| 76 | Suppression of superfluidity of exciton-polaritons by magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 358, 227-230  | 2.3  | 88        |
| 75 | Suppression of the Auger recombination due to spin polarization of excess carriers and Mn <sup>2+</sup> ions in the semimagnetic semiconductor Cd <sub>0.95</sub> Mn <sub>0.05</sub> S. <i>Physical Review B</i> , <b>1995</b> , 52, R2241-R2244 | 3.3  | 73        |
| 74 | Polariton laser: thermodynamics and quantum kinetic theory. <i>Semiconductor Science and Technology</i> , <b>2003</b> , 18, S395-S404  | 1.8  | 67        |
| 73 | A sub-femtojoule electrical spin-switch based on optically trapped polariton condensates. <i>Nature Materials</i> , <b>2016</b> , 15, 1074-8   | 27   | 59        |
| 72 | Spontaneous Spin Bifurcations and Ferromagnetic Phase Transitions in a Spinor Exciton-Polariton Condensate. <i>Physical Review X</i> , <b>2015</b> , 5,  | 9.1  | 58        |
| 71 | Stochastic polarization formation in exciton-polariton Bose-Einstein condensates. <i>Physical Review B</i> , <b>2009</b> , 80,   | 3.3  | 57        |
| 70 | Polarization beats in ballistic propagation of exciton-polaritons in microcavities. <i>Physical Review B</i> , <b>2007</b> , 75,   | 3.3  | 56        |
| 69 | Radiative coupling and weak lasing of exciton-polariton condensates. <i>Physical Review B</i> , <b>2012</b> , 85,  | 3.3  | 55        |
| 68 | Spin Order and Phase Transitions in Chains of Polariton Condensates. <i>Physical Review Letters</i> , <b>2017</b> , 119, 067401  | 7.4  | 53        |
| 67 | Bragg-Cherenkov Scattering and Nonlinear Conductivity of a Two-Dimensional Wigner Crystal. <i>Physical Review Letters</i> , <b>1997</b> , 78, 4813-4816  | 7.4  | 50        |
| 66 | Supercell approach to the optical properties of porous silicon. <i>Physical Review B</i> , <b>1999</b> , 59, 15381-15387   | 3.3  | 45        |

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|----|---|------|----|
| 65 | Weak lasing in one-dimensional polariton superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1516-9                         | 11.5 | 42 |
| 64 | Dynamical theory of polariton amplifiers. <i>Physical Review Letters</i> , <b>2003</b> , 91, 156403   | 7.4  | 40 |
| 63 | Magnetic properties of graphene quantum dots. <i>Physical Review B</i> , <b>2013</b> , 87,  | 3.3  | 39 |
| 62 | Generation and dynamics of vortex lattices in coherent exciton-polariton fields. <i>Physical Review Letters</i> , <b>2008</b> , 101, 187401   | 7.4  | 37 |
| 61 | Nontrivial Phase Coupling in Polariton Multiplets. <i>Physical Review X</i> , <b>2016</b> , 6,  | 9.1  | 33 |
| 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> , <b>2016</b> , 113, 14926-14931 | 11.5 | 32 |
| 59 | Hyperbolic spin vortices and textures in exciton-polariton condensates. <i>Nature Communications</i> , <b>2013</b> , 4, 2590  | 17.4 | 31 |
| 58 | Frequency combs with weakly lasing exciton-polariton condensates. <i>Physical Review Letters</i> , <b>2015</b> , 114, 193901  | 7.4  | 28 |
| 57 | Pinning and depinning of the polarization of exciton-polariton condensates at room temperature. <i>Physical Review Letters</i> , <b>2010</b> , 104, 166402  | 7.4  | 27 |
| 56 | Tunable Magnetic Alignment between Trapped Exciton-Polariton Condensates. <i>Physical Review Letters</i> , <b>2016</b> , 116, 106403  | 7.4  | 24 |
| 55 | Permanent Rabi oscillations in coupled exciton-photon systems with PT-symmetry. <i>Scientific Reports</i> , <b>2016</b> , 6, 19551  | 4.9  | 23 |
| 54 | Signature of the microcavity exciton-polariton relaxation mechanism in the polarization of emitted light. <i>Physical Review B</i> , <b>2009</b> , 79,  | 3.3  | 23 |
| 53 | Renormalized dispersion of elementary excitations in spinor polariton condensates. <i>Superlattices and Microstructures</i> , <b>2007</b> , 41, 313-320   | 2.8  | 21 |
| 52 | Josephson coupling of Bose-Einstein condensates of exciton-polaritons in semiconductor microcavities. <i>Physical Review B</i> , <b>2010</b> , 81,  | 3.3  | 20 |
| 51 | Spontaneous Polariton Currents in Periodic Lateral Chains. <i>Physical Review Letters</i> , <b>2017</b> , 119, 067406   | 7.4  | 17 |
| 50 | Warping and interactions of vortices in exciton-polariton condensates. <i>Physical Review B</i> , <b>2014</b> , 89,   | 3.3  | 15 |
| 49 | Suppression of Zeeman splitting and polarization steps in localized exciton-polariton condensates. <i>Physical Review B</i> , <b>2008</b> , 77,   | 3.3  | 15 |
| 48 | Comment on "Topological stability of the half-vortices in spinor exciton-polariton condensates" <i>Physical Review B</i> , <b>2010</b> , 82,  | 3.3  | 14 |

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|----|---|------|----|
| 47 | Density of states in randomly shaped graphene quantum dots. <i>Superlattices and Microstructures</i> , <b>2011</b> , 49, 283-287  | 2.8  | 14 |
| 46 | Spin-orbit coupling and the topology of gases of spin-degenerate cold excitons in photoexcited GaAs-AlGaAs quantum wells. <i>Physical Review B</i> , <b>2012</b> , 86,  | 3.3  | 14 |
| 45 | Anisotropy of two-photon absorption in cubic direct-band-gap semiconductors. <i>Physical Review B</i> , <b>1992</b> , 45, 5926-5932                                     | 3.3  | 13 |
| 44 | Driven-dissipative spin chain model based on exciton-polariton condensates. <i>Physical Review B</i> , <b>2017</b> , 96,  | 3.3  | 12 |
| 43 | Quantum exciton-polariton networks through inverse four-wave mixing. <i>Physical Review B</i> , <b>2018</b> , 97,   | 3.3  | 12 |
| 42 | Optically trapped polariton condensates as semiclassical time crystals. <i>Physical Review A</i> , <b>2019</b> , 99,  | 2.6  | 11 |
| 41 | Emergence of microfrequency comb via limit cycles in dissipatively coupled condensates. <i>Physical Review B</i> , <b>2020</b> , 101,                                   | 3.3  | 11 |
| 40 | Increase of the chemical potential and phase transitions in four-component exciton condensates subject to magnetic fields. <i>Physical Review B</i> , <b>2011</b> , 84, | 3.3  | 11 |
| 39 | Kinetics of the polariton condensate formation in a microcavity. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 641-645  |      | 11 |
| 38 | Engineering spatial coherence in lattices of polariton condensates. <i>Optica</i> , <b>2021</b> , 8, 106  | 8.6  | 11 |
| 37 | Exciton-polariton oscillations in real space. <i>Physical Review B</i> , <b>2014</b> , 90,  | 3.3  | 10 |
| 36 | Vortices in exciton-polariton condensates with polarization splitting. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 210, 012024                         | 0.3  | 10 |
| 35 | Polariton polarization rectifier. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 79  | 16.7 | 9  |
| 34 | Rayleigh scattering in multilayered structures of porous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 3544-3547    |      | 9  |
| 33 | Exchange-induced optical spin transitions in semimagnetic semiconductors. <i>Physical Review B</i> , <b>1993</b> , 47, 13180-13188                                      | 3.3  | 9  |
| 32 | Zitterbewegung of exciton-polaritons. <i>Physical Review B</i> , <b>2018</b> , 97,  | 3.3  | 9  |
| 31 | Tight-binding description of disordered nanostructures: an application to porous silicon. <i>Applied Surface Science</i> , <b>1999</b> , 142, 564-568                   | 6.7  | 8  |
| 30 | Excitation of localized condensates in the flat band of the exciton-polariton Lieb lattice. <i>Physical Review B</i> , <b>2018</b> , 98,                                | 3.3  | 8  |

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|----|---|-----|---|
| 29 | Magneto-optical Study of CdCoTe. <i>Materials Science Forum</i> , <b>1995</b> , 182-184, 503-510  | 0.4 | 7 |
| 28 | Observation of inversion, hysteresis, and collapse of spin in optically trapped polariton condensates. <i>Physical Review B</i> , <b>2019</b> , 99,                               | 3.3 | 6 |
| 27 | Quantum statistics of bosonic cascades. <i>New Journal of Physics</i> , <b>2016</b> , 18, 023041  | 2.9 | 6 |
| 26 | Exciton-photon correlations in bosonic condensates of exciton-polaritons. <i>Scientific Reports</i> , <b>2015</b> , 5, 12020  | 4.9 | 6 |
| 25 | Strain broadening of the magnetization steps in diluted magnetic semiconductors. <i>Physical Review B</i> , <b>1997</b> , 56, 13094-13102   | 3.3 | 6 |
| 24 | Autonomous chaos of exciton-polariton condensates. <i>Physical Review B</i> , <b>2020</b> , 101,  | 3.3 | 5 |
| 23 | Stochastic spin flips in polariton condensates: nonlinear tuning from GHz to sub-Hz. <i>New Journal of Physics</i> , <b>2018</b> , 20, 075008                                     | 2.9 | 5 |
| 22 | Anisotropy of a hole magnetic polaron in a semimagnetic semiconductor. <i>JETP Letters</i> , <b>1996</b> , 63, 222-226.   | 2.2 | 5 |
| 21 | Pseudodrag of a polariton superfluid. <i>Physical Review B</i> , <b>2019</b> , 100,   | 3.3 | 4 |
| 20 | Effect of the electric field on the luminescence of self-supporting porous silicon. <i>Physica Status Solidi A</i> , <b>2003</b> , 197, 345-349                                   |     | 4 |
| 19 | Mirrorless lasing from light emitters in percolating clusters. <i>Physical Review A</i> , <b>2015</b> , 92,   | 2.6 | 3 |
| 18 | Half-quantum vortices in exciton-polariton condensates in applied magnetic field. <i>Superlattices and Microstructures</i> , <b>2011</b> , 49, 318-324                            | 2.8 | 3 |
| 17 | Photon losses in porous silicon microcavities. <i>Physica Status Solidi A</i> , <b>2005</b> , 202, 2626-2632  |     | 3 |
| 16 | Phase selection and intermittency of exciton-polariton condensates in one-dimensional periodic structures. <i>Physical Review A</i> , <b>2019</b> , 100,                          | 2.6 | 2 |
| 15 | Magnetic-field-induced resonant coupling between 1s- and 3d-exciton states. <i>Physical Review B</i> , <b>1997</b> , 56, 13113-13117  | 3.3 | 2 |
| 14 | Dissipative quantum theory of polariton lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 1476-1479                                   |     | 2 |
| 13 | Temperature and Magnetic Field Dependence of the Free and Bound Exciton Luminescence in CdTe/CdMnTe Quantum Well. <i>Materials Science Forum</i> , <b>1995</b> , 182-184, 643-646 | 0.4 | 2 |
| 12 | Long Josephson junctions with exciton-polariton condensates. <i>Physical Review B</i> , <b>2020</b> , 101,  | 3.3 | 1 |

- 11 Second-order correlations in an exciton-polariton Rabi oscillator. *Physical Review B*, **2016**, 93, 3.3 1
- 10 Dynamics of a 2D Wigner solid in a magnetic field: the plastic limit. *Physica B: Condensed Matter*, **2000**, 284-288, 1922-1923 2.8 1
- 9 Optical Absorption in Porous Silicon. *Journal of Porous Materials*, **2000**, 7, 279-282 2.4 1
- 8 Magnetoshear modes and ac dissipation in a two-dimensional Wigner crystal. *Physical Review B*, **1998**, 58, 13197-13203 3.3 1
- 7 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
- 6 Non-linear transport and a non-equilibrium phase transition in 2D electrons on liquid helium. *Physica B: Condensed Matter*, **2000**, 284-288, 1918-1919 2.8 0
- 5 Mean-Field Description of Multicomponent Exciton-Polariton Superfluids. *Springer Series in Solid-state Sciences*, **2013**, 51-70 0.4
- 4 Quantum Effects on the Dielectric Function of Porous Silicon. *Materials Research Society Symposia Proceedings*, **2000**, 638, 1
- 3 Computation of the Porous Silicon Dielectric Function in the Supercell Model and Comparison with Experiment. *Materials Research Society Symposia Proceedings*, **1999**, 579, 231
- 2 Auger Recombination via Defects in Tellurium. *Physica Status Solidi (B): Basic Research*, **1990**, 162, 531-538 3
- 1 Partial quantum revivals of localized condensates in distorted lattices. *Optics Letters*, **2020**, 45, 1571-1574