

Alberto Bramati

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,058
citations

361413
20
h-index

276875
41
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41
all docs

41
docs citations

41
times ranked

1998
citing authors

#	ARTICLE	IF	CITATIONS
1	Superfluidity of polaritons in semiconductor microcavities. <i>Nature Physics</i> , 2009, 5, 805-810.	16.7	795
2	All-optical polariton transistor. <i>Nature Communications</i> , 2013, 4, 1778.	12.8	409
3	Polariton Superfluids Reveal Quantum Hydrodynamic Solitons. <i>Science</i> , 2011, 332, 1167-1170.	12.6	379
4	Exciton-polariton spin switches. <i>Nature Photonics</i> , 2010, 4, 361-366.	31.4	337
5	All-optical control of the quantum flow of a polariton condensate. <i>Nature Photonics</i> , 2011, 5, 610-614.	31.4	143
6	Half-solitons in a polariton quantum fluid behave like magnetic monopoles. <i>Nature Physics</i> , 2012, 8, 724-728.	16.7	131
7	Optical bistability in semiconductor microcavities in the nondegenerate parametric oscillation regime: Analogy with the optical parametric oscillator. <i>Physical Review B</i> , 2004, 70, .	3.2	93
8	Light engineering of the polariton landscape in semiconductor microcavities. <i>Physical Review B</i> , 2010, 82, .	3.2	92
9	Control and Ultrafast Dynamics of a Two-Fluid Polariton Switch. <i>Physical Review Letters</i> , 2012, 109, 266407.	7.8	69
10	Observation of the Bogoliubov Dispersion in a Fluid of Light. <i>Physical Review Letters</i> , 2018, 121, 183604.	7.8	67
11	Vortex and half-vortex dynamics in a nonlinear spinor quantum fluid. <i>Science Advances</i> , 2015, 1, e1500807.	10.3	57
12	Non-Blinking Single-Photon Generation with Anisotropic Colloidal Nanocrystals: Towards Room-Temperature, Efficient, Colloidal Quantum Sources. <i>Advanced Materials</i> , 2013, 25, 1974-1980.	21.0	51
13	Vortex Chain in a Resonantly Pumped Polariton Superfluid. <i>Scientific Reports</i> , 2015, 5, 9230.	3.3	40
14	Injection of Orbital Angular Momentum and Storage of Quantized Vortices in Polariton Superfluids. <i>Physical Review Letters</i> , 2016, 116, 116402.	7.8	33
15	Interaction-shaped vortex-antivortex lattices in polariton fluids. <i>Physical Review B</i> , 2014, 89, .	3.2	32
16	Analogue cosmological particle creation in an ultracold quantum fluid of light. <i>Nature Communications</i> , 2022, 13, .	12.8	32
17	Effect of charging on CdSe/CdS dot-in-rods single-photon emission. <i>Physical Review B</i> , 2014, 90, .	3.2	26
18	Microcavity Polaritons for Quantum Simulation. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000052.	3.9	25

#	ARTICLE	IF	CITATIONS
19	Polariton fluids for analogue gravity physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190225.	3.4	21
20	Quantitative Analysis of Shock Wave Dynamics in a Fluid of Light. Physical Review Letters, 2021, 126, 183901.	7.8	20
21	Stationary Quantum Vortex Street in a Driven-Dissipative Quantum Fluid of Light. Physical Review Letters, 2019, 123, 215301.	7.8	17
22	Interferences between Bogoliubov excitations in superfluids of light. Physical Review Research, 2020, 2, .	3.6	17
23	Highly Photostable Perovskite Nanocubes: Toward Integrated Single Photon Sources Based on Tapered Nanofibers. ACS Photonics, 2020, 7, 2265-2272.	6.6	16
24	Sustained propagation and control of topological excitations in polariton superfluid. New Journal of Physics, 2017, 19, 095004.	2.9	15
25	Taming the snake instabilities in a polariton superfluid. Optica, 2020, 7, 1660.	9.3	15
26	Polarization Control of Linear Dipole Radiation Using an Optical Nanofiber. Physical Review Applied, 2018, 9, .	3.8	13
27	Dark-Soliton Molecules in an Exciton-Polariton Superfluid. Physical Review X, 2020, 10, .	8.9	13
28	Complete polarization control for a nanofiber waveguide using the scattering properties. Optics Express, 2019, 27, 18818.	3.4	13
29	Merging of vortices and antivortices in polariton superfluids. Physical Review B, 2014, 90, .	3.2	12
30	Measurement of the Static Structure Factor in a Paraxial Fluid of Light Using Bragg-like Spectroscopy. Physical Review Letters, 2021, 127, 023401.	7.8	11
31	Vortex-stream generation and enhanced propagation in a polariton superfluid. Physical Review Research, 2020, 2, .	3.6	11
32	Blast waves in a paraxial fluid of light (a). Europhysics Letters, 2021, 134, 24001.	2.0	10
33	Attenuation-free non-diffracting Bessel beams. Optics Express, 2019, 27, 30067.	3.4	9
34	CdSe/CdS Dot-in-Rods Nanocrystals Fast Blinking Dynamics.. ChemPhysChem, 2018, 19, 3288-3295.	2.1	6
35	Dissipation-enhanced collapse singularity of a nonlocal fluid of light in a hot atomic vapor. Physical Review A, 2021, 104, .	2.5	6
36	Lattices of quantized vortices in polariton superfluids. Comptes Rendus Physique, 2016, 17, 893-907.	0.9	5

#	ARTICLE	IF	CITATIONS
37	Parallel dark-soliton pair in a bistable two-dimensional exciton-polariton superfluid. Physical Review Research, 2020, 2, .	3.6	5
38	Coherent merging of counterpropagating exciton-polariton superfluids. Physical Review B, 2018, 98, .	3.2	3
39	Hybrid devices for quantum nanophotonics. Journal of Physics: Conference Series, 2020, 1537, 012005.	0.4	3
40	Spontaneous generation, enhanced propagation and optical imprinting of quantized vortices and dark solitons in a polariton superfluid: Towards the control of quantum turbulence ^(a) . Europhysics Letters, 2021, 134, 24004.	2.0	3
41	Dissipative Phase Transition with Driving-Controlled Spatial Dimension and Diffusive Boundary Conditions. Physical Review Letters, 2022, 128, 093601.	7.8	3