Alberto Bramati

List of Publications by Year
in descending order

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41 papers	3,058 citations	361413 20 h-index	276875 41 g-index
41 all docs	41 docs citations	41 times ranked	1998 citing authors

#	Article	IF	Citations
1	Dissipative Phase Transition with Driving-Controlled Spatial Dimension and Diffusive Boundary Conditions. Physical Review Letters, 2022, 128, 093601.	7.8	3
2	Analogue cosmological particle creation in an ultracold quantum fluid of light. Nature Communications, 2022, 13, .	12.8	32
3	Blast waves in a paraxial fluid of light (a). Europhysics Letters, 2021, 134, 24001.	2.0	10
4	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
5	Quantitative Analysis of Shock Wave Dynamics in a Fluid of Light. Physical Review Letters, 2021, 126, 183901.	7.8	20
6	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
7	Dissipation-enhanced collapse singularity of a nonlocal fluid of light in a hot atomic vapor. Physical Review A, 2021, 104, .	2.5	6
8	Hybrid devices for quantum nanophotonics. Journal of Physics: Conference Series, 2020, 1537, 012005.	0.4	3
9	Dark-Soliton Molecules in an Exciton-Polariton Superfluid. Physical Review X, 2020, 10, .	8.9	13
10	Highly Photostable Perovskite Nanocubes: Toward Integrated Single Photon Sources Based on Tapered Nanofibers. ACS Photonics, 2020, 7, 2265-2272.	6.6	16
11	Polariton fluids for analogue gravity physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190225.	3.4	21
12	Microcavity Polaritons for Quantum Simulation. Advanced Quantum Technologies, 2020, 3, 2000052.	3.9	25
13	Vortex-stream generation and enhanced propagation in a polariton superfluid. Physical Review Research, 2020, 2, .	3.6	11
14	Interferences between Bogoliubov excitations in superfluids of light. Physical Review Research, 2020, 2, .	3.6	17
15	Taming the snake instabilities in a polariton superfluid. Optica, 2020, 7, 1660.	9.3	15
16	Parallel dark-soliton pair in a bistable two-dimensional exciton-polariton superfluid. Physical Review Research, 2020, 2, .	3.6	5
17	Stationary Quantum Vortex Street in a Driven-Dissipative Quantum Fluid of Light. Physical Review Letters, 2019, 123, 215301.	7.8	17
18	Complete polarization control for a nanofiber waveguide using the scattering properties. Optics Express, 2019, 27, 18818.	3.4	13

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19	Attenuation-free non-diffracting Bessel beams. Optics Express, 2019, 27, 30067.	3.4	9
20	CdSe/CdS Dotâ€inâ€Rods Nanocrystals Fast Blinking Dynamics.. ChemPhysChem, 2018, 19, 3288-3295.	2.1	6
21	Observation of the Bogoliubov Dispersion in a Fluid of Light. Physical Review Letters, 2018, 121, 183604.	7.8	67
22	Polarization Control of Linear Dipole Radiation Using an Optical Nanofiber. Physical Review Applied, 2018, 9, .	3.8	13
23	Coherent merging of counterpropagating exciton-polariton superfluids. Physical Review B, 2018, 98, .	3.2	3
24	Sustained propagation and control of topological excitations in polariton superfluid. New Journal of Physics, 2017, 19, 095004.	2.9	15
25	Injection of Orbital Angular Momentum and Storage of Quantized Vortices in Polariton Superfluids. Physical Review Letters, 2016, 116, 116402.	7.8	33
26	Lattices of quantized vortices in polariton superfluids. Comptes Rendus Physique, 2016, 17, 893-907.	0.9	5
27	Vortex Chain in a Resonantly Pumped Polariton Superfluid. Scientific Reports, 2015, 5, 9230.	3.3	40
28	Vortex and half-vortex dynamics in a nonlinear spinor quantum fluid. Science Advances, 2015, 1, e1500807.	10.3	57
29	Merging of vortices and antivortices in polariton superfluids. Physical Review B, 2014, 90, .	3.2	12
30	Interaction-shaped vortex-antivortex lattices in polariton fluids. Physical Review B, 2014, 89, .	3.2	32
31	Effect of charging on CdSe/CdS dot-in-rods single-photon emission. Physical Review B, 2014, 90, .	3.2	26
32	Nonâ€Blinking Singleâ€Photon Generation with Anisotropic Colloidal Nanocrystals: Towards Roomâ€Temperature, Efficient, Colloidal Quantum Sources. Advanced Materials, 2013, 25, 1974-1980.	21.0	51
33	All-optical polariton transistor. Nature Communications, 2013, 4, 1778.	12.8	409
34	Control and Ultrafast Dynamics of a Two-Fluid Polariton Switch. Physical Review Letters, 2012, 109, 266407.	7.8	69
35	Half-solitons in a polariton quantum fluid behave like magnetic monopoles. Nature Physics, 2012, 8, 724-728.	16.7	131
36	Polariton Superfluids Reveal Quantum Hydrodynamic Solitons. Science, 2011, 332, 1167-1170.	12.6	379

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37	All-optical control of the quantum flow of a polariton condensate. Nature Photonics, 2011, 5, 610-614.	31.4	143
38	Excitonâ€“polariton spin switches. Nature Photonics, 2010, 4, 361-366.	31.4	337
39	Light engineering of the polariton landscape in semiconductor microcavities. Physical Review B, 2010, 82, .	3.2	92
40	Superfluidity of polaritons in semiconductor microcavities. Nature Physics, 2009, 5, 805-810.	16.7	795
41	Optical bistability in semiconductor microcavities in the nondegenerate parametric oscillation regime:â€ƒAnalogy with the optical parametric oscillator. Physical Review B, 2004, 70, .	3.2	93