Igor Ferrier-Barbut

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4649043/publications.pdf

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27 papers	2,608 citations	331670 21 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	1301 citing authors

#	Article	IF	Citations
1	Observation of Quantum Droplets in a Strongly Dipolar Bose Gas. Physical Review Letters, 2016, 116, 215301.	7.8	466
2	Observing the Rosensweig instability of a quantum ferrofluid. Nature, 2016, 530, 194-197.	27.8	434
3	Self-bound droplets of a dilute magnetic quantum liquid. Nature, 2016, 539, 259-262.	27.8	381
4	A mixture of Bose and Fermi superfluids. Science, 2014, 345, 1035-1038.	12.6	227
5	Lifetime of the Bose Gas with Resonant Interactions. Physical Review Letters, 2013, 110, 163202.	7.8	117
6	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î</mml:mi></mml:math>-enhanced sub-Doppler cooling of lithium atoms in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>D</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>gray molasses. Physical Review A, 2013, 87, .	2.5	88
7	Striped states in a many-body system of tilted dipoles. Physical Review A, 2017, 96, .	2.5	85
8	Emergence of Chaotic Scattering in Ultracold Er and Dy. Physical Review X, 2015, 5, .	8.9	81
9	Dilute dipolar quantum droplets beyond the extended Gross-Pitaevskii equation. Physical Review Research, 2019, 1, .	3.6	81
10	Critical Velocity and Dissipation of an Ultracold Bose-Fermi Counterflow. Physical Review Letters, 2015, 115, 265303.	7.8	77
11	Scissors Mode of Dipolar Quantum Droplets of Dysprosium Atoms. Physical Review Letters, 2018, 120, 160402.	7.8	69
12	Broad universal Feshbach resonances in the chaotic spectrum of dysprosium atoms. Physical Review A, 2015, 92, .	2.5	59
13	Liquid quantum droplets of ultracold magnetic atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 214004.	1.5	59
14	Storage and Release of Subradiant Excitations in a Dense Atomic Cloud. Physical Review X, 2021, 11, .	8.9	48
15	Many-Body Signatures of Collective Decay in Atomic Chains. Physical Review Letters, 2020, 125, 263601.	7.8	46
16	Collective Shift in Resonant Light Scattering by a One-Dimensional Atomic Chain. Physical Review Letters, 2020, 124, 253602.	7.8	44
17	Universal Loss Dynamics in a Unitary Bose Gas. Physical Review X, 2016, 6, .	8.9	41
18	Onset of a modulational instability in trapped dipolar Bose-Einstein condensates. Physical Review A, 2018, 97, .	2.5	38

#	Article	IF	Citations
19	Anisotropic Superfluid Behavior of a Dipolar Bose-Einstein Condensate. Physical Review Letters, 2018, 121, 030401.	7.8	31
20	Ultradilute Quantum Droplets. Physics Today, 2019, 72, 46-52.	0.3	31
21	La vitesse critique de Landau d'une particule dans un superfluide de fermions. Comptes Rendus Physique, 2015, 16, 241-253.	0.9	29
22	Laser-Driven Superradiant Ensembles of Two-Level Atoms near Dicke Regime. Physical Review Letters, 2021, 127, 243602.	7.8	22
23	A fermionic impurity in a dipolar quantum droplet. Physica Scripta, 2018, 93, 104004.	2.5	19
24	Quantum liquids get thin. Science, 2018, 359, 274-275.	12.6	16
25	Preparation of one-dimensional chains and dense cold atomic clouds with a high numerical aperture four-lens system. Physical Review A, 2021, 103, .	2.5	11
26	From superradiance to subradiance: exploring the many-body Dicke ladder. Optics Letters, 2022, 47, 1541.	3.3	8
27	Smashing magnets. New Journal of Physics, 2016, 18, 111004.	2.9	0