

Frédéric Chevy

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

3,308
citations

567281

15
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

2080
citing authors

#	ARTICLE	IF	CITATIONS
1	Vortex Formation in a Stirred Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2000, 84, 806-809.	7.8	1,590
2	Universal phase diagram of a strongly interacting Fermi gas with unbalanced spin populations. <i>Physical Review A</i> , 2006, 74, .	2.5	312
3	The Equation of State of a Low-Temperature Fermi Gas with Tunable Interactions. <i>Science</i> , 2010, 328, 729-732.	12.6	311
4	Collective Oscillations of an Imbalanced Fermi Gas: Axial Compression Modes and Polaron Effective Mass. <i>Physical Review Letters</i> , 2009, 103, 170402.	7.8	260
5	A mixture of Bose and Fermi superfluids. <i>Science</i> , 2014, 345, 1035-1038.	12.6	227
6	Ultra-cold polarized Fermi gases. <i>Reports on Progress in Physics</i> , 2010, 73, 112401.	20.1	173
7	Roadmap on Atomtronics: State of the art and perspective. <i>AVS Quantum Science</i> , 2021, 3, .	4.9	87
8	Critical Velocity and Dissipation of an Ultracold Bose-Fermi Counterflow. <i>Physical Review Letters</i> , 2015, 115, 265303.	7.8	77
9	Conductivity Spectrum of Ultracold Atoms in an Optical Lattice. <i>Physical Review Letters</i> , 2019, 122, 153602.	7.8	39
10	Non-Abelian adiabatic geometric transformations in a cold strontium gas. <i>Nature Communications</i> , 2018, 9, 3580.	12.8	34
11	Counter-flow instability of a quantum mixture of two superfluids. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	27
12	Capillary-Gravity Waves Generated by a Slow Moving Object. <i>Physical Review Letters</i> , 2008, 100, 074504.	7.8	25
13	Collision of two spin-polarized fermionic clouds. <i>Physical Review A</i> , 2011, 84, .	2.5	25
14	Wave drag on floating bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15064-15068.	7.1	25
15	Few Versus Many-Body Physics of an Impurity Immersed in a Superfluid of Spin 1/2 Attractive Fermions. <i>Physical Review Letters</i> , 2019, 123, 080403.	7.8	17
16	Boltzmann equation simulation for a trapped Fermi gas of atoms. <i>New Journal of Physics</i> , 2012, 14, 073036.	2.9	14
17	Capillary gravity waves: A "fixed-depth" analysis. <i>Europhysics Letters</i> , 2003, 61, 796-802.	2.0	13
18	Wave drag on a submerged sphere. <i>Physics of Fluids</i> , 2015, 27, .	4.0	12

#	ARTICLE	IF	CITATIONS
19	Spin Drag of a Fermi Gas in a Harmonic Trap. <i>Physical Review Letters</i> , 2013, 111, 190402.	7.8	9
20	Analog simulation of Weyl particles with cold atoms. <i>Europhysics Letters</i> , 2016, 114, 26005.	2.0	8
21	Self-consistent theory of capillary-gravity-wave generation by small moving objects. <i>Physical Review E</i> , 2010, 81, 016306.	2.1	7
22	Impurity immersed in a double Fermi sea. <i>Physical Review A</i> , 2020, 102, .	2.5	6
23	Mean field versus random-phase approximation calculation of the energy of an impurity immersed in a spin-1/2 superfluid. <i>Physical Review A</i> , 2022, 105, .	2.5	5
24	Hydrodynamic response of a trapped superfluid to a periodic perturbation. <i>European Physical Journal: Special Topics</i> , 2019, 227, 2263-2273.	2.6	3
25	Hydrodynamic spectrum of a superfluid in an elongated trap. <i>Europhysics Letters</i> , 2016, 114, 60005.	2.0	2
26	Quasithermalization of collisionless particles in quadrupole potentials. <i>Physical Review A</i> , 2020, 101, .	2.5	0