

Davide Proment

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,231
citations

394286

19
h-index

454834

30
g-index

30
all docs

30
docs citations

30
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	Equilibrium and nonequilibrium description of negative temperature states in a one-dimensional lattice using a wave kinetic approach. <i>Physical Review E</i> , 2022, 105, 014206.	0.8	3
2	Irreversible Dynamics of Vortex Reconnections in Quantum Fluids. <i>Physical Review Letters</i> , 2020, 125, 164501.	2.9	17
3	Breaking of Josephson junction oscillations and onset of quantum turbulence in Bose-Einstein condensates. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 175701.	0.7	11
4	Coexistence of Ballistic and Fourier Regimes in the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Fermi-Pasta-Ulam-Tsingou Lattice. <i>Physical Review Letters</i> , 2020, 125, 024101.	2.9	13
5	Matching theory to characterize sound emission during vortex reconnection in quantum fluids. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	7
6	Starting Flow Past an Airfoil and its Acquired Lift in a Superfluid. <i>Physical Review Letters</i> , 2019, 123, 154502.	2.9	11
7	Clustering and phase transitions in a 2D superfluid with immiscible active impurities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 305501.	0.7	9
8	Wind Generated Rogue Waves in an Annular Wave Flume. <i>Physical Review Letters</i> , 2017, 118, 144503.	2.9	60
9	Universal and nonuniversal aspects of vortex reconnections in superfluids. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	45
10	On the origin of heavy-tail statistics in equations of the Nonlinear Schrödinger type. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 3173-3177.	0.9	28
11	Evolution of a superfluid vortex filament tangle driven by the Gross-Pitaevskii equation. <i>Physical Review E</i> , 2016, 93, 061103.	0.8	21
12	A vortex filament tracking method for the Gross-Pitaevskii model of a superfluid. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 415502.	0.7	33
13	Scattering of Line-Ring Vortices in a Superfluid. <i>Journal of Low Temperature Physics</i> , 2015, 180, 68-81.	0.6	4
14	Route to thermalization in the $\langle i \rangle^{\pm} \langle j \rangle$ -Fermi-Pasta-Ulam system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4208-4213.	3.3	105
15	Helicity conservation by flow across scales in reconnecting vortex links and knots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15350-15355.	3.3	85
16	Bose-Einstein condensation and Berezinskii-Kosterlitz-Thouless transition in the two-dimensional nonlinear Schrödinger model. <i>Physical Review A</i> , 2014, 90, .	1.0	35
17	Torus quantum vortex knots in the Gross-Pitaevskii model for Bose-Einstein condensates. <i>Journal of Physics: Conference Series</i> , 2014, 544, 012022.	0.3	19
18	Experimental Observation of Dark Solitons on the Surface of Water. <i>Physical Review Letters</i> , 2013, 110, 124101.	2.9	87

#	ARTICLE	IF	CITATIONS
19	Excitation of rogue waves in a variable medium: An experimental study on the interaction of water waves and currents. <i>Physical Review E</i> , 2013, 87, 051201.	0.8	58
20	Experimental evidence of the modulation of a plane wave to oblique perturbations and generation of rogue waves in finite water depth. <i>Physics of Fluids</i> , 2013, 25, .	1.6	36
21	Rogue Waves: From Nonlinear Schrödinger Breather Solutions to Sea-Keeping Test. <i>PLoS ONE</i> , 2013, 8, e54629.	1.1	110
22	Approximate rogue wave solutions of the forced and damped nonlinear Schrödinger equation for water waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3057-3059.	0.9	67
23	Warm cascade states in a forced-dissipated Boltzmann gas of hard spheres. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 600-615.	1.3	7
24	Vortex knots in a Bose-Einstein condensate. <i>Physical Review E</i> , 2012, 85, 036306.	0.8	76
25	A note on an alternative derivation of the Benney equations for short wave-long wave interactions. <i>European Journal of Mechanics, B/Fluids</i> , 2012, 34, 1-6.	1.2	3
26	Sustained turbulence in the three-dimensional Gross-Pitaevskii model. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 304-314.	1.3	32
27	Triggering Rogue Waves in Opposing Currents. <i>Physical Review Letters</i> , 2011, 107, 184502.	2.9	131
28	Warm turbulence in the Boltzmann equation. <i>Europhysics Letters</i> , 2011, 96, 24004.	0.7	2
29	Freak waves in crossing seas. <i>European Physical Journal: Special Topics</i> , 2010, 185, 45-55.	1.2	60
30	Quantum turbulence cascades in the Gross-Pitaevskii model. <i>Physical Review A</i> , 2009, 80, .	1.0	56