

# Davide Proment

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6927675/publications.pdf>

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	Triggering Rogue Waves in Opposing Currents. <i>Physical Review Letters</i> , 2011, 107, 184502.	2.9	131
2	Rogue Waves: From Nonlinear Schrödinger Breather Solutions to Sea-Keeping Test. <i>PLoS ONE</i> , 2013, 8, e54629.	1.1	110
3	Route to thermalization in the $\langle i \rangle \pm \langle /i \rangle$ -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
4	Experimental Observation of Dark Solitons on the Surface of Water. <i>Physical Review Letters</i> , 2013, 110, 124101.	2.9	87
5	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
6	Vortex knots in a Bose-Einstein condensate. <i>Physical Review E</i> , 2012, 85, 036306.	0.8	76
7	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
8	Freak waves in crossing seas. <i>European Physical Journal: Special Topics</i> , 2010, 185, 45-55.	1.2	60
9	Wind Generated Rogue Waves in an Annular Wave Flume. <i>Physical Review Letters</i> , 2017, 118, 144503.	2.9	60
10	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
11	Quantum turbulence cascades in the Gross-Pitaevskii model. <i>Physical Review A</i> , 2009, 80, .	1.0	56
12	Universal and nonuniversal aspects of vortex reconnections in superfluids. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	45
13	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
14	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
15	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
16	Sustained turbulence in the three-dimensional Gross-Pitaevskii model. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 304-314.	1.3	32
17	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
18	Evolution of a superfluid vortex filament tangle driven by the Gross-Pitaevskii equation. <i>Physical Review E</i> , 2016, 93, 061103.	0.8	21

#	ARTICLE	IF	CITATIONS
19	Torus quantum vortex knots in the Gross-Pitaevskii model for Bose-Einstein condensates. Journal of Physics: Conference Series, 2014, 544, 012022.	0.3	19
20	Irreversible Dynamics of Vortex Reconnections in Quantum Fluids. Physical Review Letters, 2020, 125, 164501.	2.9	17
21	Coexistence of Ballistic and Fourier Regimes in the $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > \langle mml:mi \rangle^2 \langle /mml:mi \rangle \langle /mml:math \rangle$ Fermi-Pasta-Ulam-Tsingou Lattice. Physical Review Letters, 2020, 125, 024101.	2.9	13
22	Starting Flow Past an Airfoil and its Acquired Lift in a Superfluid. Physical Review Letters, 2019, 123, 154502.	2.9	11
23	Breaking of Josephson junction oscillations and onset of quantum turbulence in Bose-Einstein condensates. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 175701.	0.7	11
24	Clustering and phase transitions in a 2D superfluid with immiscible active impurities. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 305501.	0.7	9
25	Warm cascade states in a forced-dissipated Boltzmann gas of hard spheres. Physica D: Nonlinear Phenomena, 2012, 241, 600-615.	1.3	7
26	Matching theory to characterize sound emission during vortex reconnection in quantum fluids. Physical Review Fluids, 2020, 5, .	1.0	7
27	Scattering of Line-Ring Vortices in a Superfluid. Journal of Low Temperature Physics, 2015, 180, 68-81.	0.6	4
28	A note on an alternative derivation of the Benney equations for short wave-long wave interactions. European Journal of Mechanics, B/Fluids, 2012, 34, 1-6.	1.2	3
29	Equilibrium and nonequilibrium description of negative temperature states in a one-dimensional lattice using a wave kinetic approach. Physical Review E, 2022, 105, 014206.	0.8	3
30	Warm turbulence in the Boltzmann equation. Europhysics Letters, 2011, 96, 24004.	0.7	2