

# A V Slunyaev

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

1,425  
citations

22  
h-index

36  
g-index

77  
ext. papers

1,621  
ext. citations

2.6  
avg, IF

5.17  
L-index

#	Paper	IF	Citations
59	Observation of a hierarchy of up to fifth-order rogue waves in a water tank. <i>Physical Review E</i> , <b>2012</b> , 86, 056601	2.4	151
58	A high-order nonlinear envelope equation for gravity waves in finite-depth water. <i>Journal of Experimental and Theoretical Physics</i> , <b>2005</b> , 101, 926-941	1	87
57	Rogue waves [towards a unifying concept?]: Discussions and debates. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 185, 5-15	2.3	82
56	Generation of large-amplitude solitons in the extended Korteweg-de Vries equation. <i>Chaos</i> , <b>2002</b> , 12, 1070-1076	3.3	72
55	Rogue waters. <i>Contemporary Physics</i> , <b>2011</b> , 52, 571-590	3.3	65
54	Modeling freak waves from the North Sea. <i>Applied Ocean Research</i> , <b>2005</b> , 27, 12-22	3.4	60
53	Focusing of nonlinear wave groups in deep water. <i>JETP Letters</i> , <b>2001</b> , 73, 170-175	1.2	59
52	Nonlinear wave focusing on water of finite depth. <i>Physica D: Nonlinear Phenomena</i> , <b>2002</b> , 173, 77-96	3.3	56
51	Role of Multiple Soliton Interactions in the Generation of Rogue Waves: The Modified Korteweg-de Vries Framework. <i>Physical Review Letters</i> , <b>2016</b> , 117, 214501	7.4	54
50	Super-rogue waves in simulations based on weakly nonlinear and fully nonlinear hydrodynamic equations. <i>Physical Review E</i> , <b>2013</b> , 88, 012909	2.4	50
49	Applicability of envelope model equations for simulation of narrow-spectrum unidirectional random wave field evolution: Experimental validation. <i>Physics of Fluids</i> , <b>2010</b> , 22, 016601	4.4	50
48	Freak waves in 2005. <i>Natural Hazards and Earth System Sciences</i> , <b>2006</b> , 6, 1007-1015	3.9	49
47	Nonlinear analysis and simulations of measured freak wave time series. <i>European Journal of Mechanics, B/Fluids</i> , <b>2006</b> , 25, 621-635	2.4	47
46	Simulations and experiments of short intense envelope solitons of surface water waves. <i>Physics of Fluids</i> , <b>2013</b> , 25, 067105	4.4	42
45	On the highest non-breaking wave in a group: fully nonlinear water wave breathers versus weakly nonlinear theory. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 735, 203-248	3.7	41
44	Generation of solitons and breathers in the extended Korteweg-de Vries equation with positive cubic nonlinearity. <i>Chaos</i> , <b>2010</b> , 20, 013102	3.3	36
43	Rogue waves, rogue events and extreme wave kinematics in spatio-temporal fields of simulated sea states. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 1759-1771	3.9	30

42	Wave amplification in the framework of forced nonlinear Schrödinger equation: The rogue wave context. <i>Physica D: Nonlinear Phenomena</i> , <b>2015</b> , 303, 18-27	3.3	29
41	Laboratory and numerical study of intense envelope solitons of water waves: Generation, reflection from a wall, and collisions. <i>Physics of Fluids</i> , <b>2017</b> , 29, 047103	4.4	25
40	Analytical and numerical studies of the variable-coefficient Gardner equation. <i>Applied Mathematics and Computation</i> , <b>2004</b> , 152, 449-471	2.7	25
39	Internal solitary waves. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , <b>2007</b> , 85-110		25
38	Numerical simulation of limiting envelope solitons of gravity waves on deep water. <i>Journal of Experimental and Theoretical Physics</i> , <b>2009</b> , 109, 676-686	1	23
37	Reconstruction of Extreme Events Through Numerical Simulations. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , <b>2014</b> , 136,	1.5	22
36	Freak wave events and the wave phase coherence. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 185, 67-80	2.3	22
35	Stochastic simulation of unidirectional intense waves in deep water applied to rogue waves. <i>JETP Letters</i> , <b>2012</b> , 94, 779-786	1.2	18
34	Nonlinear dynamics of trapped waves on jet currents and rogue waves. <i>Physical Review E</i> , <b>2014</b> , 89, 041002	0.4	14
33	Generation and interaction of large-amplitude solitons. <i>JETP Letters</i> , <b>1998</b> , 67, 655-661	1.2	14
32	Strongly nonlinear steepening of long interfacial waves. <i>Nonlinear Processes in Geophysics</i> , <b>2007</b> , 14, 247-256	2.5	14
31	Laminar boundary layer on an impulsively started rotating sphere. <i>Physics of Fluids</i> , <b>1979</b> , 22, 1		14
30	Analysis of the Nonlinear Spectrum of Intense Sea Wave with the Purpose of Extreme Wave Prediction. <i>Radiophysics and Quantum Electronics</i> , <b>2018</b> , 61, 1-21	0.7	12
29	On the optimal focusing of solitons and breathers in long-wave models. <i>Studies in Applied Mathematics</i> , <b>2019</b> , 142, 385-413	2.1	10
28	Rogue events in spatiotemporal numerical simulations of unidirectional waves in basins of different depth. <i>Natural Hazards</i> , <b>2016</b> , 84, 549-565	3	9
27	Numerical modeling of rogue waves in coastal waters. <i>Natural Hazards and Earth System Sciences</i> , <b>2014</b> , 14, 861-870	3.9	9
26	Group-wave resonances in nonlinear dispersive media: The case of gravity water waves. <i>Physical Review E</i> , <b>2018</b> , 97, 010202	2.4	8
25	Trapped waves on jet currents: asymptotic modal approach. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 738, 65-104.	0.7	8

24	Predicting rogue waves. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , <b>2017</b> , 72, 236-249	0.7	8
23	Wave dynamics in nonlinear media with two dispersionless limits for long and short waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2001</b> , 280, 53-57	2.3	8
22	Lifetimes of Rogue Wave Events in Direct Numerical Simulations of Deep-Water Irregular Sea Waves. <i>Fluids</i> , <b>2019</b> , 4, 70	1.6	7
21	Soliton groups as the reason for extreme statistics of unidirectional sea waves. <i>Journal of Ocean Engineering and Marine Energy</i> , <b>2017</b> , 3, 395-408	1.5	7
20	Occurrence of standing surface gravity waves modulation in shallow water. <i>European Journal of Mechanics, B/Fluids</i> , <b>2009</b> , 28, 521-531	2.4	6
19	Nonlinear Parabolic Equation and Extreme Waves on the Sea Surface. <i>Radiophysics and Quantum Electronics</i> , <b>2003</b> , 46, 451-463	0.7	6
18	Rogue Waves in Waters of Infinite and Finite Depths. <i>Advances in Geophysical and Environmental Mechanics and Mathematics</i> , <b>2009</b> , 91-171		6
17	Persistence of hydrodynamic envelope solitons: Detection and rogue wave occurrence. <i>Physics of Fluids</i> , <b>2021</b> , 33, 036606	4.4	6
16	Transformation of envelope solitons on a bottom step. <i>Physics of Fluids</i> , <b>2021</b> , 33, 066606	4.4	5
15	On the incomplete recurrence of modulationally unstable deep-water surface gravity waves. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 66, 167-182	3.7	4
14	Observation of Rogue Waves. <i>Advances in Geophysical and Environmental Mechanics and Mathematics</i> , <b>2009</b> , 11-31		4
13	Effects of coherent dynamics of stochastic deep-water waves. <i>Physical Review E</i> , <b>2020</b> , 101, 062214	2.4	3
12	Account of Occasional Wave Breaking in Numerical Simulations of Irregular Water Waves in the Focus of the Rogue Wave Problem. <i>Water Waves</i> , <b>2020</b> , 2, 243-262	1	3
11	Numerical Simulation of the Sea Surface Rogue Waves within the Framework of the Potential Euler Equations. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2020</b> , 56, 179-190	1	2
10	The pressure field beneath intense surface water wave groups. <i>European Journal of Mechanics, B/Fluids</i> , <b>2018</b> , 67, 25-34	2.4	2
9	Reconstruction of Extreme Events Through Numerical Simulations <b>2011</b> ,		2
8	Shallow-Water Rogue Waves. <i>Advances in Geophysical and Environmental Mechanics and Mathematics</i> , <b>2009</b> , 173-209		2
7	Numerical Simulations of Modulated Waves in a Higher-Order Dysthe Equation. <i>Water Waves</i> , <b>2020</b> , 2, 59-77	1	2

- 6 The Peregrine Breather on the Zero-Background Limit as the Two-Soliton Degenerate Solution: An Experimental Study. *Frontiers in Physics*, **2021**, 9, 3-9 2
- 5 Stability and interaction of compactons in the sublinear KdV equation. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 101, 105855 3-7 1
- 4 Quasi-Linear Wave Focusing. *Advances in Geophysical and Environmental Mechanics and Mathematics*, **2009**, 63-89
- 3 Deterministic and Statistical Approaches for Studying Rogue Waves. *Advances in Geophysical and Environmental Mechanics and Mathematics*, **2009**, 33-61
- 2 Standing Gravity Wave Regimes in a Shallow-Water Resonator **2018**, 63-75
- 1 Evidence of the Wave Phase Coherence for Freak Wave Events **2011**, 147-158