A V Slunyaev

List of Publications by Year in Descending Order

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	Persistence of hydrodynamic envelope solitons: Detection and rogue wave occurrence. *Physics of Fluids*, **2021**, 33, 036606	4.4	6
58	Transformation of envelope solitons on a bottom step. *Physics of Fluids*, **2021**, 33, 066606	4.4	5
57	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
56	Stability and interaction of compactons in the sublinear KdV equation. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 101, 105855	3.7	1
55	Numerical Simulation of the Sea Surface Rogue Waves within the Framework of the Potential Euler Equations. *Izvestiya - Atmospheric and Oceanic Physics*, **2020**, 56, 179-190	1	2
54	Effects of coherent dynamics of stochastic deep-water waves. *Physical Review E*, **2020**, 101, 062214	2.4	3
53	Numerical Simulations of Modulated Waves in a Higher-Order Dysthe Equation. *Water Waves*, **2020**, 2, 59-77	1	2
52	Account of Occasional Wave Breaking in Numerical Simulations of Irregular Water Waves in the Focus of the Rogue Wave Problem. *Water Waves*, **2020**, 2, 243-262	1	3
51	Lifetimes of Rogue Wave Events in Direct Numerical Simulations of Deep-Water Irregular Sea Waves. *Fluids*, **2019**, 4, 70	1.6	7
50	On the optimal focusing of solitons and breathers in long-wave models. *Studies in Applied Mathematics*, **2019**, 142, 385-413	2.1	10
49	On the incomplete recurrence of modulationally unstable deep-water surface gravity waves. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 66, 167-182	3.7	4
48	Group-wave resonances in nonlinear dispersive media: The case of gravity water waves. *Physical Review E*, **2018**, 97, 010202	2.4	8
47	The pressure field beneath intense surface water wave groups. *European Journal of Mechanics, B/Fluids*, **2018**, 67, 25-34	2.4	2
46	Analysis of the Nonlinear Spectrum of Intense Sea Wave with the Purpose of Extreme Wave Prediction. *Radiophysics and Quantum Electronics*, **2018**, 61, 1-21	0.7	12
45	Standing Gravity Wave Regimes in a Shallow-Water Resonator **2018**, 63-75		
44	Laboratory and numerical study of intense envelope solitons of water waves: Generation, reflection from a wall, and collisions. *Physics of Fluids*, **2017**, 29, 047103	4.4	25
43	Predicting rogue waves. *Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)*, **2017**, 72, 236-249	0.7	8

42	Soliton groups as the reason for extreme statistics of unidirectional sea waves. *Journal of Ocean Engineering and Marine Energy*, **2017**, 3, 395-408	1.5	7
41	Role of Multiple Soliton Interactions in the Generation of Rogue Waves: The Modified Korteweg-de Vries Framework. *Physical Review Letters*, **2016**, 117, 214501	7.4	54
40	Rogue events in spatiotemporal numerical simulations of unidirectional waves in basins of different depth. *Natural Hazards*, **2016**, 84, 549-565	3	9
39	Wave amplification in the framework of forced nonlinear Schrödinger equation: The rogue wave context. *Physica D: Nonlinear Phenomena*, **2015**, 303, 18-27	3.3	29
38	Trapped waves on jet currents: asymptotic modal approach. *Journal of Fluid Mechanics*, **2014**, 738, 65-104	3.7	8
37	Nonlinear dynamics of trapped waves on jet currents and rogue waves. *Physical Review E*, **2014**, 89, 041002	2.4	14
36	Numerical modeling of rogue waves in coastal waters. *Natural Hazards and Earth System Sciences*, **2014**, 14, 861-870	3.9	9
35	Reconstruction of Extreme Events Through Numerical Simulations. *Journal of Offshore Mechanics and Arctic Engineering*, **2014**, 136,	1.5	22
34	Super-rogue waves in simulations based on weakly nonlinear and fully nonlinear hydrodynamic equations. *Physical Review E*, **2013**, 88, 012909	2.4	50
33	On the highest non-breaking wave in a group: fully nonlinear water wave breathers versus weakly nonlinear theory. *Journal of Fluid Mechanics*, **2013**, 735, 203-248	3.7	41
32	Rogue waves, rogue events and extreme wave kinematics in spatio-temporal fields of simulated sea states. *Natural Hazards and Earth System Sciences*, **2013**, 13, 1759-1771	3.9	30
31	Simulations and experiments of short intense envelope solitons of surface water waves. *Physics of Fluids*, **2013**, 25, 067105	4.4	42
30	Observation of a hierarchy of up to fifth-order rogue waves in a water tank. *Physical Review E*, **2012**, 86, 056601	2.4	151
29	Stochastic simulation of unidirectional intense waves in deep water applied to rogue waves. *JETP Letters*, **2012**, 94, 779-786	1.2	18
28	Reconstruction of Extreme Events Through Numerical Simulations **2011**,		2
27	Rogue waters. *Contemporary Physics*, **2011**, 52, 571-590	3.3	65
26	Evidence of the Wave Phase Coherence for Freak Wave Events **2011**, 147-158		
25	Applicability of envelope model equations for simulation of narrow-spectrum unidirectional random wave field evolution: Experimental validation. *Physics of Fluids*, **2010**, 22, 016601	4.4	50

24	Generation of solitons and breathers in the extended Korteweg-de Vries equation with positive cubic nonlinearity. *Chaos*, **2010**, 20, 013102	3.3	36
23	Rogue waves – towards a unifying concept?: Discussions and debates. *European Physical Journal: Special Topics*, **2010**, 185, 5-15	2.3	82
22	Freak wave events and the wave phase coherence. *European Physical Journal: Special Topics*, **2010**, 185, 67-80	2.3	22
21	Occurrence of standing surface gravity waves modulation in shallow water. *European Journal of Mechanics, B/Fluids*, **2009**, 28, 521-531	2.4	6
20	Numerical simulation of "limiting" envelope solitons of gravity waves on deep water. *Journal of Experimental and Theoretical Physics*, **2009**, 109, 676-686	1	23
19	Quasi-Linear Wave Focusing. *Advances in Geophysical and Environmental Mechanics and Mathematics* , **2009**, 63-89		
18	Deterministic and Statistical Approaches for Studying Rogue Waves. *Advances in Geophysical and Environmental Mechanics and Mathematics*, **2009**, 33-61		
17	Observation of Rogue Waves. *Advances in Geophysical and Environmental Mechanics and Mathematics*, **2009**, 11-31		4
16	Rogue Waves in Waters of Infinite and Finite Depths. *Advances in Geophysical and Environmental Mechanics and Mathematics*, **2009**, 91-171		6
15	Shallow-Water Rogue Waves. *Advances in Geophysical and Environmental Mechanics and Mathematics*, **2009**, 173-209		2
14	Strongly nonlinear steepening of long interfacial waves. *Nonlinear Processes in Geophysics*, **2007**, 14, 247-256	2.9	14
13	Internal solitary waves. *WIT Transactions on State-of-the-art in Science and Engineering*, **2007**, 85-110		25
12	Freak waves in 2005. *Natural Hazards and Earth System Sciences*, **2006**, 6, 1007-1015	3.9	49
11	Nonlinear analysis and simulations of measured freak wave time series. *European Journal of Mechanics, B/Fluids*, **2006**, 25, 621-635	2.4	47
10	A high-order nonlinear envelope equation for gravity waves in finite-depth water. *Journal of Experimental and Theoretical Physics*, **2005**, 101, 926-941	1	87
9	Modeling freak waves from the North Sea. *Applied Ocean Research*, **2005**, 27, 12-22	3.4	60
8	Analytical and numerical studies of the variable-coefficient Gardner equation. *Applied Mathematics and Computation*, **2004**, 152, 449-471	2.7	25
7	Nonlinear Parabolic Equation and Extreme Waves on the Sea Surface. *Radiophysics and Quantum Electronics*, **2003**, 46, 451-463	0.7	6

6	Nonlinear wave focusing on water of finite depth. *Physica D: Nonlinear Phenomena*, **2002**, 173, 77-96	3.3	56
5	Generation of large-amplitude solitons in the extended Korteweg-de Vries equation. *Chaos*, **2002**, 12, 1070-1076	3.3	72
4	Wave dynamics in nonlinear media with two dispersionless limits for long and short waves. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2001**, 280, 53-57	2.3	8
3	Focusing of nonlinear wave groups in deep water. *JETP Letters*, **2001**, 73, 170-175	1.2	59
2	Generation and interaction of large-amplitude solitons. *JETP Letters*, **1998**, 67, 655-661	1.2	14
1	Laminar boundary layer on an impulsively started rotating sphere. *Physics of Fluids*, **1979**, 22, 1		14