Dmitry Agafontsev

List of Publications by Year
in descending order

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26 papers	498 citations	840585 11 h-index	642610 23 g-index
26 all docs	26 docs citations	26 times ranked	268 citing authors

#	Article	IF	Citations
1	Integrable turbulence and formation of rogue waves. Nonlinearity, 2015, 28, 2791-2821.	0.6	113
2	Bound State Soliton Gas Dynamics Underlying the Spontaneous Modulational Instability. Physical Review Letters, 2019, 123, 234102.	2.9	67
3	Strongly interacting soliton gas and formation of rogue waves. Physical Review E, 2018, 98, .	0.8	54
4	Statistical Properties of the Nonlinear Stage of Modulation Instability in Fiber Optics. Physical Review Letters, 2019, 123, 093902.	2.9	51
5	Integrable turbulence generated from modulational instability of cnoidal waves. Nonlinearity, 2016, 29, 3551-3578.	0.6	46
6	Extreme events in optics: Challenges of the MANUREVA project. European Physical Journal: Special Topics, 2010, 185, 125-133.	1.2	29
7	Development of high vorticity structures in incompressible 3D Euler equations. Physics of Fluids, 2015, 27, .	1.6	24
8	Asymptotic solution for high-vorticity regions in incompressible three-dimensional EulerÂequations. Journal of Fluid Mechanics, 2017, 813, .	1.4	18
9	Deep-water internal solitary waves near critical density ratio. Physica D: Nonlinear Phenomena, 2007, 225, 153-168.	1.3	13
10	Extreme rogue wave generation from narrowband partially coherent waves. Physical Review E, 2021, 103, 032209.	0.8	12
11	Extreme waves statistics for the Ablowitz-Ladik system. JETP Letters, 2014, 98, 731-734.	0.4	11
12	Development of high vorticity structures and geometrical properties of the vortex line representation. Physics of Fluids, 2018, 30, .	1.6	10
13	Solitonic model of the condensate. Physical Review E, 2021, 104, 044213.	0.8	10
14	Development of high vorticity in incompressible 3D Euler equations: Influence of initial conditions. JETP Letters, 2016, 104, 685-689.	0.4	9
15	Rogue Waves With Rational Profiles in Unstable Condensate and Its Solitonic Model. Frontiers in Physics, 2021, 9, .	1.0	7
16	Collapse of solitary waves near the transition from supercritical to subcritical bifurcations. JETP Letters, 2008, 87, 667-671.	0.4	6
17	Intermittency in generalized NLS equation with focusing six-wave interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2586-2590.	0.9	5
18	Growing of integrable turbulence. Low Temperature Physics, 2020, 46, 786-791.	0.2	3

#	Article	IF	Citations
19	Compressible vortex structures and their role in the onset of hydrodynamic turbulence. Physics-Uspekhi, 2022, 65, 189-208.	0.8	3
20	Bifurcations and stability of internal solitary waves. JETP Letters, 2006, 83, 201-205.	0.4	2
21	Bifurcations and the stability of the surface envelope solitons for a finite-depth fluid. JETP Letters, 2008, 87, 195.	0.4	2
22	Statistical Properties of the Velocity Field for the 3D Hydrodynamic Turbulence Onset. JETP Letters, 2019, 110, 121-126.	0.4	2
23	Stability of Tangential Discontinuity for the Vortex Pancakes. JETP Letters, 2021, 114, 71-75.	0.4	1
24	On the modulation instability development in optical fiber systems. JETP Letters, 2010, 91, 630-635.	0.4	0
25	Compressible structures in incompressible hydrodynamics and their role in turbulence onset. IOP Conference Series: Earth and Environmental Science, 2019, 231, 012002.	0.2	0
26	Space-Time Evolution of Noise-Driven Modulation Instability in Optical Fibers Experiments. , 2019, , .		0