

Hua Xia

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,903
citations

293460

24
h-index

274796

44
g-index

66
all docs

66
docs citations

66
times ranked

1441
citing authors

#	ARTICLE	IF	CITATIONS
1	Field theory spin and momentum in water waves. <i>Science Advances</i> , 2022, 8, eabm1295.	4.7	25
2	Fluctuation-Induced Interaction in Turbulent Flows. <i>Physical Review Letters</i> , 2022, 128, 024503.	2.9	5
3	Rolling spinners on the water surface. <i>Science Advances</i> , 2021, 7, .	4.7	4
4	Surface waves control bacterial attachment and formation of biofilms in thin layers. <i>Science Advances</i> , 2020, 6, eaaz9386.	4.7	18
5	Nonequilibrium Thermodynamics of Turbulence-Driven Rotors. <i>Physical Review Letters</i> , 2020, 124, 254501.	2.9	6
6	Diffusion of ellipsoids in laboratory two-dimensional turbulent flow. <i>Physics of Fluids</i> , 2019, 31, .	1.6	3
7	Generation of Vortex Lattices at the Liquid-Gas Interface Using Rotating Surface Waves. <i>Fluids</i> , 2019, 4, 74.	0.8	2
8	Tunable diffusion in wave-driven two-dimensional turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 865, 811-830.	1.4	12
9	Local anisotropy of laboratory two-dimensional turbulence affects pair dispersion. <i>Physics of Fluids</i> , 2019, 31, 025111.	1.6	7
10	Confinement of surface spinners in liquid metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25424-25429.	3.3	6
11	Passive propulsion in turbulent flows. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	8
12	Extreme concentration fluctuations due to local reversibility of mixing in turbulent flows. <i>Modern Physics Letters B</i> , 2018, 32, 1840028.	1.0	1
13	Rectification of chaotic fluid motion in two-dimensional turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	14
14	Wave-based liquid-interface metamaterials. <i>Nature Communications</i> , 2017, 8, 14325.	5.8	50
15	Two-dimensional turbulence in three-dimensional flows. <i>Physics of Fluids</i> , 2017, 29, .	1.6	33
16	WAVE-GENERATED FLOWS ON THE WATER SURFACE. <i>International Journal of Modern Physics Conference Series</i> , 2016, 42, 1660179.	0.7	0
17	Braid Entropy of Two-Dimensional Turbulence. <i>Scientific Reports</i> , 2016, 5, 18564.	1.6	13
18	SIMULTANEOUS OBSERVATION OF ENERGY AND ENSTROPY CASCADES IN THIN-LAYER TURBULENCE. <i>International Journal of Modern Physics Conference Series</i> , 2016, 42, 1660185.	0.7	1

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19	Inhibition of wave-driven two-dimensional turbulence by viscoelastic films of proteins. <i>Physical Review E</i> , 2015, 92, 023027.	0.8	11
20	Wave-particle interaction in the Faraday waves. <i>European Physical Journal E</i> , 2015, 38, 106.	0.7	13
21	LAGRANGIAN CORRELATION AND SPECTRA IN 2D TURBULENCE. <i>International Journal of Modern Physics Conference Series</i> , 2014, 34, 1460378.	0.7	1
22	TURBULENCE DRIVEN BY FARADAY SURFACE WAVES. <i>International Journal of Modern Physics Conference Series</i> , 2014, 34, 1460379.	0.7	2
23	Taylor Particle Dispersion during Transition to Fully Developed Two-Dimensional Turbulence. <i>Physical Review Letters</i> , 2014, 112, 104501.	2.9	21
24	Flight“crash events in turbulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7558-7563.	3.3	72
25	Three-Dimensional Fluid Motion in Faraday Waves: Creation of Vorticity and Generation of Two-Dimensional Turbulence. <i>Physical Review X</i> , 2014, 4, .	2.8	35
26	Generation and reversal of surface flows by propagating waves. <i>Nature Physics</i> , 2014, 10, 658-663.	6.5	44
27	Inverse Energy Cascade and Emergence of Large Coherent Vortices in Turbulence Driven by Faraday Waves. <i>Physical Review Letters</i> , 2013, 110, 194501.	2.9	74
28	Lagrangian scale of particle dispersion in turbulence. <i>Nature Communications</i> , 2013, 4, 2013.	5.8	47
29	Propagating solitons generated by localized perturbations on the surface of deep water. <i>Physical Review E</i> , 2012, 85, 026313.	0.8	5
30	Parametrically Excited Water Surface Ripples as Ensembles of Oscillons. <i>Physical Review Letters</i> , 2012, 108, 034502.	2.9	43
31	STRUCTURE FORMATION IN SPECTRALLY CONDENSED TURBULENCE. <i>International Journal of Modern Physics Conference Series</i> , 2012, 19, 257-261.	0.7	1
32	TURBULENCE IN THICK LAYERS. <i>International Journal of Modern Physics Conference Series</i> , 2012, 19, 390-395.	0.7	0
33	Oscillon Dynamics and Rogue Wave Generation in Faraday Surface Ripples. <i>Physical Review Letters</i> , 2012, 109, 114502.	2.9	48
34	Robust inverse energy cascade and turbulence structure in three-dimensional layers of fluid. <i>Physics of Fluids</i> , 2011, 23, .	1.6	31
35	Upscale energy transfer in thick turbulent fluid layers. <i>Nature Physics</i> , 2011, 7, 321-324.	6.5	139
36	Turbulence in fluid layers. <i>Journal of Physics: Conference Series</i> , 2011, 318, 012001.	0.3	2

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37	Modulation instability and capillary wave turbulence. <i>Europhysics Letters</i> , 2010, 91, 14002.	0.7	38
38	Capillary Rogue Waves. <i>Physical Review Letters</i> , 2010, 104, 104503.	2.9	330
39	Turbulence Decay Rate as a Measure of Flow Dimensionality. <i>Physical Review Letters</i> , 2010, 105, 264501.	2.9	40
40	Xia et al. Reply. <i>Physical Review Letters</i> , 2009, 102, .	2.9	5
41	Phase Randomization of Three-Wave Interactions in Capillary Waves. <i>Physical Review Letters</i> , 2009, 103, 064502.	2.9	35
42	Spectrally condensed turbulence in thin layers. <i>Physics of Fluids</i> , 2009, 21, .	1.6	99
43	Universality of Kolmogorov law in spectrally condensed turbulence in thin layers. <i>Springer Proceedings in Physics</i> , 2009, , 709-710.	0.1	2
44	Spectrally Condensed Fluid Turbulence and L-H Transitions in Plasma. <i>Plasma and Fusion Research</i> , 2009, 4, 012-012.	0.3	3
45	Observation of weak turbulence spectra of capillary waves. <i>Springer Proceedings in Physics</i> , 2009, , 725-728.	0.1	0
46	Turbulence-Condensate Interaction in Two Dimensions. <i>Physical Review Letters</i> , 2008, 101, 194504.	2.9	69
47	Suppression of Turbulence by Self-Generated and Imposed Mean Flows. <i>Physical Review Letters</i> , 2007, 99, 164502.	2.9	54
48	Experimental progress on zonal flow physics in toroidal plasmas. <i>Nuclear Fusion</i> , 2007, 47, S718-S726.	1.6	109
49	SPECTRAL TRANSFER ANALYSIS IN PLASMA TURBULENCE STUDIES. , 2007, , .		0
50	Spectra of quasi-2D turbulence in plasma and fluid during spectral condensation. , 2007, , 274-276.		0
51	Zonal flows, GAM, and radial electric field in the H-1 heliac. <i>European Physical Journal D</i> , 2006, 56, 1353-1359.	0.4	1
52	Mean E \times B flows and GAM-like oscillations in the H-1 heliac. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, S17-S29.	0.9	22
53	Strong ExB Shear Flows in the Transport-Barrier Region in H-Mode Plasma. <i>Physical Review Letters</i> , 2006, 97, 255003.	2.9	23
54	Experimental Studies of Plasma Turbulence. <i>World Scientific Lecture Notes in Complex Systems</i> , 2006, , 233-279.	0.1	0

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55	Spectral condensation of turbulence in plasmas and fluids and its role in low-to-high phase transitions in toroidal plasma. <i>Physical Review E</i> , 2005, 71, 046409.	0.8	70
56	Fluctuations and stability of plasmas in the H-1NF heliac. <i>Nuclear Fusion</i> , 2004, 44, 279-286.	1.6	17
57	Spectral energy transfer and generation of turbulent structures in toroidal plasma. <i>Physics of Plasmas</i> , 2004, 11, 561-571.	0.7	37
58	Spectral Energy Transfer, Generation of Zonal Flows and Their Role in Confinement Transitions. <i>Fusion Science and Technology</i> , 2004, 46, 279-287.	0.6	2
59	Turbulent Transport Reduction and Randomization of Coherent Fluctuations by Zonal Flows in Toroidal Plasma. <i>Physical Review Letters</i> , 2003, 90, 125002.	2.9	31
60	Multichannel visible spectroscopy diagnostic for particle transport studies in the H-1 heliac. <i>Review of Scientific Instruments</i> , 2003, 74, 2048-2051.	0.6	5
61	Inverse Energy Cascade Correlated with Turbulent-Structure Generation in Toroidal Plasma. <i>Physical Review Letters</i> , 2003, 91, 155001.	2.9	58
62	Measurements of poloidal rotation velocity using cross-correlation spectroscopy in the H-1 heliac. <i>Review of Scientific Instruments</i> , 2003, 74, 2044-2047.	0.6	1
63	Experimental Evidence of Nonlinear Spectral Power Transfer In Zonal Flow Generation. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	0
64	Observation of internal kink instability purely driven by suprathermal electrons in the HL-1M tokamak. <i>Nuclear Fusion</i> , 2002, 42, 491-495.	1.6	55