

Haitao Xu

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.

58

papers

1,812

citations

23

h-index

42

g-index

66

ext. papers

2,040

ext. citations

4.9

avg, IF

4.7

L-index

#	Paper	IF	Citations
58	A quantitative study of three-dimensional Lagrangian particle tracking algorithms. <i>Experiments in Fluids</i> , 2006 , 40, 301-313	2.5	288
57	The role of pair dispersion in turbulent flow. <i>Science</i> , 2006 , 311, 835-8	33.3	156
56	Universal intermittent properties of particle trajectories in highly turbulent flows. <i>Physical Review Letters</i> , 2008 , 100, 254504	7.4	123
55	Motion of inertial particles with size larger than Kolmogorov scale in turbulent flows. <i>Physica D: Nonlinear Phenomena</i> , 2008 , 237, 2095-2100	3.3	90
54	Small-scale anisotropy in Lagrangian turbulence. <i>New Journal of Physics</i> , 2006 , 8, 102-102	2.9	72
53	An experimental study of turbulent relative dispersion models. <i>New Journal of Physics</i> , 2006 , 8, 109-109	2.9	69
52	High order Lagrangian velocity statistics in turbulence. <i>Physical Review Letters</i> , 2006 , 96, 024503	7.4	67
51	Lagrangian structure functions in turbulence: A quantitative comparison between experiment and direct numerical simulation. <i>Physics of Fluids</i> , 2008 , 20, 065103	4.4	60
50	The pirouette effect in turbulent flows. <i>Nature Physics</i> , 2011 , 7, 709-712	16.2	59
49	Flight-crash events in turbulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7558-63	11.5	56
48	Time-reversal-symmetry breaking in turbulence. <i>Physical Review Letters</i> , 2014 , 113, 054501	7.4	48
47	Solutions of the kinetic theory for bounded collisional granular flows. <i>Continuum Mechanics and Thermodynamics</i> , 2003 , 15, 321-349	3.5	48
46	Curvature of lagrangian trajectories in turbulence. <i>Physical Review Letters</i> , 2007 , 98, 050201	7.4	46
45	Bulk turbulence in dilute polymer solutions. <i>Journal of Fluid Mechanics</i> , 2009 , 629, 375-385	3.7	42
44	Tracking Lagrangian trajectories in position-velocity space. <i>Measurement Science and Technology</i> , 2008 , 19, 075105	2	40
43	On Lagrangian single-particle statistics. <i>Physics of Fluids</i> , 2012 , 24, 055102	4.4	35
42	Where do small, weakly inertial particles go in a turbulent flow?. <i>Journal of Fluid Mechanics</i> , 2012 , 698, 160-167	3.7	35

41	Evolution of geometric structures in intense turbulence. <i>New Journal of Physics</i> , 2008 , 10, 013012	2.9	34
40	The Lagrangian exploration module: an apparatus for the study of statistically homogeneous and isotropic turbulence. <i>Review of Scientific Instruments</i> , 2010 , 81, 055112	1.7	33
39	Variable density turbulence tunnel facility. <i>Review of Scientific Instruments</i> , 2014 , 85, 093908	1.7	32
38	Tetrahedron deformation and alignment of perceived vorticity and strain in a turbulent flow. <i>Physics of Fluids</i> , 2013 , 25, 035101	4.4	28
37	Acceleration correlations and pressure structure functions in high-reynolds number turbulence. <i>Physical Review Letters</i> , 2007 , 99, 204501	7.4	25
36	Measurement errors in the mean and fluctuation velocities of spherical grains from a computer analysis of digital images. <i>Review of Scientific Instruments</i> , 2004 , 75, 811-819	1.7	25
35	Inertial effects on two-particle relative dispersion in turbulent flows. <i>Europhysics Letters</i> , 2010 , 90, 64005.6	1.6	23
34	Fluid acceleration in the bulk of turbulent dilute polymer solutions. <i>New Journal of Physics</i> , 2008 , 10, 123015	2.9	23
33	High-resolution measurement of cloud microphysics and turbulence at a mountaintop station. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3219-3228	4	22
32	Elastic energy flux by flexible polymers in fluid turbulence. <i>Physical Review Letters</i> , 2013 , 111, 024501	7.4	21
31	Multifractal dimension of Lagrangian turbulence. <i>Physical Review Letters</i> , 2006 , 96, 114503	7.4	21
30	Focus on dynamics of particles in turbulence. <i>New Journal of Physics</i> , 2014 , 16, 085010	2.9	19
29	Single-Particle Motion and Vortex Stretching in Three-Dimensional Turbulent Flows. <i>Physical Review Letters</i> , 2016 , 116, 124502	7.4	17
28	Signatures of non-universal large scales in conditional structure functions from various turbulent flows. <i>New Journal of Physics</i> , 2011 , 13, 113020	2.9	15
27	Schneefernerhaus as a mountain research station for clouds and turbulence. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3209-3218	4	14
26	A note on Taylor's hypothesis under large-scale flow variation. <i>Nonlinear Processes in Geophysics</i> , 2014 , 21, 645-649	2.9	13
25	Small-scale anisotropy in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2016 , 804, 5-23	3.7	12
24	Lagrangian view of time irreversibility of fluid turbulence. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1	3.6	12

23	Studies of Turbulence Dissipation in the Taurus Molecular Cloud with Core Velocity Dispersion. <i>Astrophysical Journal</i> , 2018 , 864, 116	4.7	12
22	The TAR Model for Calculation of Droplet/Wall Impingement. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1998 , 120, 593-597	2.1	11
21	Redistribution of Kinetic Energy in Turbulent Flows. <i>Physical Review X</i> , 2014 , 4,	9.1	10
20	Generation of Lagrangian intermittency in turbulence by a self-similar mechanism. <i>New Journal of Physics</i> , 2013 , 15, 055015	2.9	9
19	TURBULENCE DECAY AND CLOUD CORE RELAXATION IN MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2015 , 799, 227	4.7	9
18	Observation of aerodynamic instability in the flow of a particle stream in a dilute gas. <i>Astronomy and Astrophysics</i> , 2019 , 622, A151	5.1	6
17	Turbulence-induced cloud voids: observation and interpretation. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4991-5003	6.8	5
16	Dense, bounded shear flows of agitated solid spheres in a gas at intermediate Stokes and finite Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2009 , 618, 181-208	3.7	5
15	Granular Segregation in Collisional Shearing Flows 2001 , 239-252		4
14	Uniform breaking of liquid-jets by modulated laser heating. <i>Physics of Fluids</i> , 2021 , 33, 044115	4.4	3
13	Measuring vorticity vector from the spinning of micro-sized mirror-encapsulated spherical particles in the flow. <i>Review of Scientific Instruments</i> , 2019 , 90, 115111	1.7	2
12	Generalized self-similar spectrum and the effect of large-scale in decaying homogeneous isotropic turbulence. <i>New Journal of Physics</i> , 2018 , 20, 103035	2.9	2
11	Schneefernerhaus as a mountain research station for clouds and turbulence [Part 2: Cloud microphysics and fine-scale turbulence 2015 ,		1
10	Dynamics and invariants of the perceived velocity gradient tensor in homogeneous and isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2020 , 897,	3.7	1
9	Effects of Polymer Additive on Turbulent Bulk Flow: The Polymer Concentration Dependence. <i>Lecture Notes in Mechanical Engineering</i> , 2014 , 57-62	0.4	1
8	Path Lengths in Turbulence. <i>Journal of Statistical Physics</i> , 2011 , 145, 93-101	1.5	1
7	Measurements of Turbulent Flows 2007 , 745-855		1
6	Flow development of a gas-solid suspension in a microgravity Couette apparatus 2001 ,		1

5	Experimental Measurements of Lagrangian Statistics in Intense Turbulence 2007 , 1-10		1
4	A laminar-jet-discharging method for measuring the interfacial tension of deformable surfaces. <i>Measurement Science and Technology</i> , 2020 , 31, 035302	2	0
3	In situ cloud particle tracking experiment.. <i>Review of Scientific Instruments</i> , 2021 , 92, 125105	1.7	0
2	Lagrangian particle tracking in high Reynolds number turbulence 2007 , 299-311		
1	Collisional Granular Flows with and Without Gas Interactions in Microgravity 2005 , 229-240		