

Haitao Xu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3766687/haitao-xu-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | Uniform breaking of liquid-jets by modulated laser heating. <i>Physics of Fluids</i> , 2021 , 33, 044115 | 4.4 | 3 |
| 57 | In situ cloud particle tracking experiment.. <i>Review of Scientific Instruments</i> , 2021 , 92, 125105 | 1.7 | 0 |
| 56 | 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 |
| 55 | A laminar-jet-discharging method for measuring the interfacial tension of deformable surfaces. <i>Measurement Science and Technology</i> , 2020 , 31, 035302 | 2 | 0 |
| 54 | Turbulence-induced cloud voids: observation and interpretation. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4991-5003 | 6.8 | 5 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | Studies of Turbulence Dissipation in the Taurus Molecular Cloud with Core Velocity Dispersion. <i>Astrophysical Journal</i> , 2018 , 864, 116 | 4.7 | 12 |
| 49 | Small-scale anisotropy in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2016 , 804, 5-23 | 3.7 | 12 |
| 48 | Single-Particle Motion and Vortex Stretching in Three-Dimensional Turbulent Flows. <i>Physical Review Letters</i> , 2016 , 116, 124502 | 7.4 | 17 |
| 47 | Lagrangian view of time irreversibility of fluid turbulence. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1 | 3.6 | 12 |
| 46 | Schneefernerhaus as a mountain research station for clouds and turbulence [Part 2: Cloud microphysics and fine-scale turbulence 2015 , | | 1 |
| 45 | High-resolution measurement of cloud microphysics and turbulence at a mountaintop station. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3219-3228 | 4 | 22 |
| 44 | Schneefernerhaus as a mountain research station for clouds and turbulence. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3209-3218 | 4 | 14 |
| 43 | TURBULENCE DECAY AND CLOUD CORE RELAXATION IN MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2015 , 799, 227 | 4.7 | 9 |
| 42 | 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 |

| | | | |
|----|---|------|----|
| 41 | Time-reversal-symmetry breaking in turbulence. <i>Physical Review Letters</i> , 2014 , 113, 054501 | 7.4 | 48 |
| 40 | A note on Taylor's hypothesis under large-scale flow variation. <i>Nonlinear Processes in Geophysics</i> , 2014 , 21, 645-649 | 2.9 | 13 |
| 39 | Redistribution of Kinetic Energy in Turbulent Flows. <i>Physical Review X</i> , 2014 , 4, | 9.1 | 10 |
| 38 | Variable density turbulence tunnel facility. <i>Review of Scientific Instruments</i> , 2014 , 85, 093908 | 1.7 | 32 |
| 37 | 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 |
| 36 | Focus on dynamics of particles in turbulence. <i>New Journal of Physics</i> , 2014 , 16, 085010 | 2.9 | 19 |
| 35 | Generation of Lagrangian intermittency in turbulence by a self-similar mechanism. <i>New Journal of Physics</i> , 2013 , 15, 055015 | 2.9 | 9 |
| 34 | Tetrahedron deformation and alignment of perceived vorticity and strain in a turbulent flow. <i>Physics of Fluids</i> , 2013 , 25, 035101 | 4.4 | 28 |
| 33 | Elastic energy flux by flexible polymers in fluid turbulence. <i>Physical Review Letters</i> , 2013 , 111, 024501 | 7.4 | 21 |
| 32 | On Lagrangian single-particle statistics. <i>Physics of Fluids</i> , 2012 , 24, 055102 | 4.4 | 35 |
| 31 | Where do small, weakly inertial particles go in a turbulent flow?. <i>Journal of Fluid Mechanics</i> , 2012 , 698, 160-167 | 3.7 | 35 |
| 30 | The pirouette effect in turbulent flows. <i>Nature Physics</i> , 2011 , 7, 709-712 | 16.2 | 59 |
| 29 | Path Lengths in Turbulence. <i>Journal of Statistical Physics</i> , 2011 , 145, 93-101 | 1.5 | 1 |
| 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 | 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 |
| 26 | Inertial effects on two-particle relative dispersion in turbulent flows. <i>Europhysics Letters</i> , 2010 , 90, 64005.6 | 2.3 | 23 |
| 25 | Bulk turbulence in dilute polymer solutions. <i>Journal of Fluid Mechanics</i> , 2009 , 629, 375-385 | 3.7 | 42 |
| 24 | 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 |

| | | | |
|----|---|------|-----|
| 23 | Tracking Lagrangian trajectories in position-velocity space. <i>Measurement Science and Technology</i> , 2008 , 19, 075105 | 2 | 40 |
| 22 | 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 |
| 21 | Evolution of geometric structures in intense turbulence. <i>New Journal of Physics</i> , 2008 , 10, 013012 | 2.9 | 34 |
| 20 | Fluid acceleration in the bulk of turbulent dilute polymer solutions. <i>New Journal of Physics</i> , 2008 , 10, 123015 | 2.9 | 23 |
| 19 | Universal intermittent properties of particle trajectories in highly turbulent flows. <i>Physical Review Letters</i> , 2008 , 100, 254504 | 7.4 | 123 |
| 18 | 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 |
| 17 | Curvature of lagrangian trajectories in turbulence. <i>Physical Review Letters</i> , 2007 , 98, 050201 | 7.4 | 46 |
| 16 | Acceleration correlations and pressure structure functions in high-reynolds number turbulence. <i>Physical Review Letters</i> , 2007 , 99, 204501 | 7.4 | 25 |
| 15 | Lagrangian particle tracking in high Reynolds number turbulence 2007 , 299-311 | | |
| 14 | Measurements of Turbulent Flows 2007 , 745-855 | | 1 |
| 13 | Experimental Measurements of Lagrangian Statistics in Intense Turbulence 2007 , 1-10 | | 1 |
| 12 | Small-scale anisotropy in Lagrangian turbulence. <i>New Journal of Physics</i> , 2006 , 8, 102-102 | 2.9 | 72 |
| 11 | High order Lagrangian velocity statistics in turbulence. <i>Physical Review Letters</i> , 2006 , 96, 024503 | 7.4 | 67 |
| 10 | Multifractal dimension of Lagrangian turbulence. <i>Physical Review Letters</i> , 2006 , 96, 114503 | 7.4 | 21 |
| 9 | The role of pair dispersion in turbulent flow. <i>Science</i> , 2006 , 311, 835-8 | 33.3 | 156 |
| 8 | An experimental study of turbulent relative dispersion models. <i>New Journal of Physics</i> , 2006 , 8, 109-109 | 2.9 | 69 |
| 7 | A quantitative study of three-dimensional Lagrangian particle tracking algorithms. <i>Experiments in Fluids</i> , 2006 , 40, 301-313 | 2.5 | 288 |
| 6 | Collisional Granular Flows with and Without Gas Interactions in Microgravity 2005 , 229-240 | | |

| | | | |
|---|---|-----|----------------|
| 5 | 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 |
| 4 | Solutions of the kinetic theory for bounded collisional granular flows. <i>Continuum Mechanics and Thermodynamics</i> , 2003 , 15, 321-349 | 3.5 | 4 ⁸ |
| 3 | Flow development of a gas-solid suspension in a microgravity Couette apparatus 2001 , | | 1 |
| 2 | Granular Segregation in Collisional Shearing Flows 2001 , 239-252 | | 4 |
| 1 | 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 |