

Greg A Voth

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,393
citations

361413

20
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

1245
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid particle accelerations in fully developed turbulence. <i>Nature</i> , 2001, 409, 1017-1019.	27.8	512
2	Measurement of particle accelerations in fully developed turbulence. <i>Journal of Fluid Mechanics</i> , 2002, 469, 121-160.	3.4	385
3	Anisotropic Particles in Turbulence. <i>Annual Review of Fluid Mechanics</i> , 2017, 49, 249-276.	25.0	230
4	Experimental Measurements of Stretching Fields in Fluid Mixing. <i>Physical Review Letters</i> , 2002, 88, 254501.	7.8	181
5	Lagrangian acceleration measurements at large Reynolds numbers. <i>Physics of Fluids</i> , 1998, 10, 2268-2280.	4.0	147
6	Rotation Rate of Rods in Turbulent Fluid Flow. <i>Physical Review Letters</i> , 2012, 109, 134501.	7.8	144
7	Alignment of vorticity and rods with Lagrangian fluid stretching in turbulence. <i>Journal of Fluid Mechanics</i> , 2014, 743, .	3.4	85
8	Mixing rates and symmetry breaking in two-dimensional chaotic flow. <i>Physics of Fluids</i> , 2003, 15, 2560-2566.	4.0	75
9	Ordered Clusters and Dynamical States of Particles in a Vibrated Fluid. <i>Physical Review Letters</i> , 2002, 88, 234301.	7.8	69
10	Rotation and alignment of rods in two-dimensional chaotic flow. <i>Physics of Fluids</i> , 2011, 23, .	4.0	62
11	Measurements of the coupling between the tumbling of rods and the velocity gradient tensor in turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 766, 202-225.	3.4	61
12	Measurements of the solid-body rotation of anisotropic particles in 3D turbulence. <i>New Journal of Physics</i> , 2014, 16, 102001.	2.9	48
13	Using cavitation to measure statistics of low-pressure events in large-Reynolds-number turbulence. <i>Physics of Fluids</i> , 2000, 12, 1485-1496.	4.0	45
14	Acceleration Statistics of Neutrally Buoyant Spherical Particles in Intense Turbulence. <i>Physical Review Letters</i> , 2009, 103, 194501.	7.8	45
15	Inertial Range Scaling in Rotations of Long Rods in Turbulence. <i>Physical Review Letters</i> , 2014, 112, 024501.	7.8	43
16	Stretching and mixing of non-Newtonian fluids in time-periodic flows. <i>Physics of Fluids</i> , 2005, 17, 053102.	4.0	29
17	Effects of nonuniversal large scales on conditional structure functions in turbulence. <i>Physics of Fluids</i> , 2010, 22, .	4.0	24
18	A silicon strip detector system for high resolution particle tracking in turbulence. <i>Review of Scientific Instruments</i> , 2001, 72, 4348-4353.	1.3	22

#	ARTICLE	IF	CITATIONS
19	Disks aligned in a turbulent channel. <i>Journal of Fluid Mechanics</i> , 2015, 772, 1-4.	3.4	21
20	Inertial torques and a symmetry breaking orientational transition in the sedimentation of slender fibres. <i>Journal of Fluid Mechanics</i> , 2019, 875, 576-596.	3.4	21
21	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	20
22	Real-time image compression for high-speed particle tracking. <i>Review of Scientific Instruments</i> , 2007, 78, 023704.	1.3	19
23	Effects of fluctuating energy input on the small scales in turbulence. <i>Journal of Fluid Mechanics</i> , 2013, 737, 527-551.	3.4	18
24	Preferential Rotation of Chiral Dipoles in Isotropic Turbulence. <i>Physical Review Letters</i> , 2016, 117, 154501.	7.8	17
25	Scale-dependent alignment, tumbling and stretching of slender rods in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 860, 465-486.	3.4	15
26	Extracting turbulent spectral transfer from under-resolved velocity fields. <i>Physics of Fluids</i> , 2014, 26, .	4.0	12
27	Experimental measurements of the collapse of a two-dimensional granular gas under gravity. <i>Physical Review E</i> , 2008, 78, 041302.	2.1	11
28	Visualization of collisional substructure in granular shock waves. <i>Physical Review E</i> , 2008, 78, 041309.	2.1	11
29	Using deformable particles for single-particle measurements of velocity gradient tensors. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	7
30	Methods for Measuring the Orientation and Rotation Rate of 3D-printed Particles in Turbulence. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4
31	Emergent scar lines in chaotic advection of passive directors. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	4
32	Simulations of granular gravitational collapse. <i>Physical Review E</i> , 2013, 88, 062202.	2.1	3
33	Lord Kelvin's isotropic helicoid. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	3
34	Experimental measurements of time dependent structure in shock waves and gravitational-collapse of a granular gas. , 2009, , .		0