Greg A Voth

List of Publications by Year in Descending Order

32 papers	1,985 citations	18 h-index	35 g-index
35 ext. papers	2,217 ext. citations	5.9 avg, IF	4.89 L-index

#	Paper	IF	Citations
32	Using deformable particles for single-particle measurements of velocity gradient tensors. *Experiments in Fluids*, **2019**, 60, 1	2.5	4
31	Inertial torques and a symmetry breaking orientational transition in the sedimentation of slender fibres. *Journal of Fluid Mechanics*, **2019**, 875, 576-596	3.7	9
30	Scale-dependent alignment, tumbling and stretching of slender rods in isotropic turbulence. *Journal of Fluid Mechanics*, **2019**, 860, 465-486	3.7	5
29	Anisotropic Particles in Turbulence. *Annual Review of Fluid Mechanics*, **2017**, 49, 249-276	22	154
28	Emergent scar lines in chaotic advection of passive directors. *Physical Review Fluids*, **2017**, 2,	2.8	4
27	Preferential Rotation of Chiral Dipoles in Isotropic Turbulence. *Physical Review Letters*, **2016**, 117, 154501	7.4	12
26	Methods for Measuring the Orientation and Rotation Rate of 3D-printed Particles in Turbulence. *Journal of Visualized Experiments*, **2016**,	1.6	4
25	Measurements of the coupling between the tumbling of rods and the velocity gradient tensor in turbulence. *Journal of Fluid Mechanics*, **2015**, 766, 202-225	3.7	47
24	Disks aligned in a turbulent channel. *Journal of Fluid Mechanics*, **2015**, 772, 1-4	3.7	18
23	Inertial range scaling in rotations of long rods in turbulence. *Physical Review Letters*, **2014**, 112, 024501	7.4	34
22	Measurements of the solid-body rotation of anisotropic particles in 3D turbulence. *New Journal of Physics*, **2014**, 16, 102001	2.9	40
21	Extracting turbulent spectral transfer from under-resolved velocity fields. *Physics of Fluids*, **2014**, 26, 105107	4.4	8
20	Alignment of vorticity and rods with Lagrangian fluid stretching in turbulence. *Journal of Fluid Mechanics*, **2014**, 743,	3.7	64
19	Simulations of granular gravitational collapse. *Physical Review E*, **2013**, 88, 062202	2.4	3
18	Effects of fluctuating energy input on the small scales in turbulence. *Journal of Fluid Mechanics*, **2013**, 737, 527-551	3.7	14
17	Rotation rate of rods in turbulent fluid flow. *Physical Review Letters*, **2012**, 109, 134501	7.4	126
16	Signatures of non-universal large scales in conditional structure functions from various turbulent flows. *New Journal of Physics*, **2011**, 13, 113020	2.9	15

15	Rotation and alignment of rods in two-dimensional chaotic flow. *Physics of Fluids*, **2011**, 23, 043302	4.4	52
14	Effects of nonuniversal large scales on conditional structure functions in turbulence. *Physics of Fluids*, **2010**, 22, 015107	4.4	17
13	Acceleration statistics of neutrally buoyant spherical particles in intense turbulence. *Physical Review Letters*, **2009**, 103, 194501	7.4	37
12	Experimental measurements of the collapse of a two-dimensional granular gas under gravity. *Physical Review E*, **2008**, 78, 041302	2.4	9
11	Visualization of collisional substructure in granular shock waves. *Physical Review E*, **2008**, 78, 041309	2.4	8
10	Real-time image compression for high-speed particle tracking. *Review of Scientific Instruments*, **2007**, 78, 023704	1.7	14
9	Stretching and mixing of non-Newtonian fluids in time-periodic flows. *Physics of Fluids*, **2005**, 17, 053102	4.4	26
8	Mixing rates and symmetry breaking in two-dimensional chaotic flow. *Physics of Fluids*, **2003**, 15, 2560-2566	4.4	72
7	Ordered clusters and dynamical states of particles in a vibrated fluid. *Physical Review Letters*, **2002**, 88, 234301	7.4	48
6	Experimental measurements of stretching fields in fluid mixing. *Physical Review Letters*, **2002**, 88, 254501	7.4	164
5	Measurement of particle accelerations in fully developed turbulence. *Journal of Fluid Mechanics*, **2002**, 469, 121-160	3.7	332
4	Fluid particle accelerations in fully developed turbulence. *Nature*, **2001**, 409, 1017-9	50.4	451
3	A silicon strip detector system for high resolution particle tracking in turbulence. *Review of Scientific Instruments*, **2001**, 72, 4348-4353	1.7	20
2	Using cavitation to measure statistics of low-pressure events in large-Reynolds-number turbulence. *Physics of Fluids*, **2000**, 12, 1485-1496	4.4	38
1	Lagrangian acceleration measurements at large Reynolds numbers. *Physics of Fluids*, **1998**, 10, 2268-2280	4.4	136