

# Greg A Voth

## 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.

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	Fluid particle accelerations in fully developed turbulence. <i>Nature</i> , <b>2001</b> , 409, 1017-9	50.4	451
31	Measurement of particle accelerations in fully developed turbulence. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 469, 121-160	3.7	332
30	Experimental measurements of stretching fields in fluid mixing. <i>Physical Review Letters</i> , <b>2002</b> , 88, 254501	4.4	164
29	Anisotropic Particles in Turbulence. <i>Annual Review of Fluid Mechanics</i> , <b>2017</b> , 49, 249-276	22	154
28	Lagrangian acceleration measurements at large Reynolds numbers. <i>Physics of Fluids</i> , <b>1998</b> , 10, 2268-2280	4.4	136
27	Rotation rate of rods in turbulent fluid flow. <i>Physical Review Letters</i> , <b>2012</b> , 109, 134501	7.4	126
26	Mixing rates and symmetry breaking in two-dimensional chaotic flow. <i>Physics of Fluids</i> , <b>2003</b> , 15, 2560-2566	4.4	72
25	Alignment of vorticity and rods with Lagrangian fluid stretching in turbulence. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 743,	3.7	64
24	Rotation and alignment of rods in two-dimensional chaotic flow. <i>Physics of Fluids</i> , <b>2011</b> , 23, 043302	4.4	52
23	Ordered clusters and dynamical states of particles in a vibrated fluid. <i>Physical Review Letters</i> , <b>2002</b> , 88, 234301	7.4	48
22	Measurements of the coupling between the tumbling of rods and the velocity gradient tensor in turbulence. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 766, 202-225	3.7	47
21	Measurements of the solid-body rotation of anisotropic particles in 3D turbulence. <i>New Journal of Physics</i> , <b>2014</b> , 16, 102001	2.9	40
20	Using cavitation to measure statistics of low-pressure events in large-Reynolds-number turbulence. <i>Physics of Fluids</i> , <b>2000</b> , 12, 1485-1496	4.4	38
19	Acceleration statistics of neutrally buoyant spherical particles in intense turbulence. <i>Physical Review Letters</i> , <b>2009</b> , 103, 194501	7.4	37
18	Inertial range scaling in rotations of long rods in turbulence. <i>Physical Review Letters</i> , <b>2014</b> , 112, 024501	7.4	34
17	Stretching and mixing of non-Newtonian fluids in time-periodic flows. <i>Physics of Fluids</i> , <b>2005</b> , 17, 053102	4.4	26
16	A silicon strip detector system for high resolution particle tracking in turbulence. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 4348-4353	1.7	20

15	Disks aligned in a turbulent channel. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 772, 1-4	3.7	18
14	Effects of nonuniversal large scales on conditional structure functions in turbulence. <i>Physics of Fluids</i> , <b>2010</b> , 22, 015107	4.4	17
13	Signatures of non-universal large scales in conditional structure functions from various turbulent flows. <i>New Journal of Physics</i> , <b>2011</b> , 13, 113020	2.9	15
12	Effects of fluctuating energy input on the small scales in turbulence. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 737, 527-551	3.7	14
11	Real-time image compression for high-speed particle tracking. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 023704	1.7	14
10	Preferential Rotation of Chiral Dipoles in Isotropic Turbulence. <i>Physical Review Letters</i> , <b>2016</b> , 117, 154501	4.4	12
9	Inertial torques and a symmetry breaking orientational transition in the sedimentation of slender fibres. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 875, 576-596	3.7	9
8	Experimental measurements of the collapse of a two-dimensional granular gas under gravity. <i>Physical Review E</i> , <b>2008</b> , 78, 041302	2.4	9
7	Extracting turbulent spectral transfer from under-resolved velocity fields. <i>Physics of Fluids</i> , <b>2014</b> , 26, 105107	4.4	8
6	Visualization of collisional substructure in granular shock waves. <i>Physical Review E</i> , <b>2008</b> , 78, 041309	2.4	8
5	Scale-dependent alignment, tumbling and stretching of slender rods in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 860, 465-486	3.7	5
4	Using deformable particles for single-particle measurements of velocity gradient tensors. <i>Experiments in Fluids</i> , <b>2019</b> , 60, 1	2.5	4
3	Methods for Measuring the Orientation and Rotation Rate of 3D-printed Particles in Turbulence. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	4
2	Emergent scar lines in chaotic advection of passive directors. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	4
1	Simulations of granular gravitational collapse. <i>Physical Review E</i> , <b>2013</b> , 88, 062202	2.4	3