

# Chris G Johnson

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

966  
citations

430874

18  
h-index

434195

31  
g-index

33  
all docs

33  
docs citations

33  
times ranked

917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Subcritical and supercritical granular flow around an obstacle on a rough inclined plane. Journal of Fluid Mechanics, 2022, 933, .	3.4	7
2	Formation of dry granular fronts and watery tails in debris flows. Journal of Fluid Mechanics, 2022, 943, .	3.4	10
3	Erosion-deposition dynamics and long distance propagation of granular avalanches. Journal of Fluid Mechanics, 2021, 915, .	3.4	14
4	Size segregation of irregular granular materials captured by time-resolved 3D imaging. Scientific Reports, 2021, 11, 8352.	3.3	12
5	Drag, diffusion and segregation in inertial granular flows. Journal of Fluid Mechanics, 2021, 924, .	3.4	12
6	Modelling erosion and deposition in geophysical granular mass flows. Europhysics News, 2021, 52, 29-32.	0.3	0
7	Coupling rheology and segregation in granular flows. Journal of Fluid Mechanics, 2021, 909, .	3.4	39
8	Hard auxetic metamaterials. Extreme Mechanics Letters, 2020, 40, 100980.	4.1	13
9	Shocking granular flows. Journal of Fluid Mechanics, 2020, 890, .	3.4	5
10	Rapid crystallization of precious-metal-mineralized layers in mafic magmatic systems. Nature Geoscience, 2020, 13, 375-381.	12.9	18
11	Self-channelisation and levee formation in monodisperse granular flows. Journal of Fluid Mechanics, 2019, 876, 591-641.	3.4	41
12	Shedding dynamics and mass exchange by dry granular waves flowing over erodible beds. Earth and Planetary Science Letters, 2019, 523, 115700.	4.4	10
13	Frictional hysteresis and particle deposition in granular free-surface flows. Journal of Fluid Mechanics, 2019, 875, 1058-1095.	3.4	24
14	Retrogressive failure of a static granular layer on an inclined plane. Journal of Fluid Mechanics, 2019, 869, 313-340.	3.4	19
15	New software protocols for enabling laboratory based temporal CT. Review of Scientific Instruments, 2018, 89, 093702.	1.3	22
16	An experimental study of the motion of a light sphere in a rotating viscous fluid. Journal of Fluid Mechanics, 2018, 847, 119-133.	3.4	9
17	Breaking size-segregation waves and mobility feedback in dense granular avalanches. Granular Matter, 2018, 20, 1.	2.2	11
18	The kinematics of bidisperse granular roll waves. Journal of Fluid Mechanics, 2018, 848, 836-875.	3.4	30

#	ARTICLE	IF	CITATIONS
19	Multiple solutions for granular flow over a smooth two-dimensional bump. <i>Journal of Fluid Mechanics</i> , 2017, 815, 77-116.	3.4	45
20	On the buckling of an elastic holey column. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170477.	2.1	21
21	Segregation-induced finger formation in granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2016, 809, 168-212.	3.4	46
22	Sustained axisymmetric intrusions in a rotating system. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 56, 110-119.	2.5	3
23	Asymmetric breaking size-segregation waves in dense granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2016, 794, 460-505.	3.4	22
24	Interpretation of umbrella cloud growth and morphology: implications for flow regimes of short-lived and long-lived eruptions. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	33
25	Modelling intrusions through quiescent and moving ambients. <i>Journal of Fluid Mechanics</i> , 2015, 771, 370-406.	3.4	25
26	A novel hybrid model for the motion of sustained axisymmetric gravity currents and intrusions. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 108-120.	2.5	3
27	Entraining gravity currents. <i>Journal of Fluid Mechanics</i> , 2013, 731, 477-508.	3.4	41
28	Grain size segregation and levee formation in geophysical mass flows. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	234
29	Segregation-induced fingering instabilities in granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2012, 709, 543-580.	3.4	65
30	Granular jets and hydraulic jumps on an inclined plane. <i>Journal of Fluid Mechanics</i> , 2011, 675, 87-116.	3.4	57
31	Granular jets and hydraulic jumps on an inclined plane. , 2010, , .		0
32	The location of lightning affecting the ionospheric sporadic-E layer as evidence for multiple enhancement mechanisms. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	20
33	Lightning-induced intensification of the ionospheric sporadic E layer. <i>Nature</i> , 2005, 435, 799-801.	27.8	55