

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	Grain-size segregation and levee formation in geophysical mass flows. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	234
2	Segregation-induced fingering instabilities in granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2012, 709, 543-580.	3.4	65
3	Granular jets and hydraulic jumps on an inclined plane. <i>Journal of Fluid Mechanics</i> , 2011, 675, 87-116.	3.4	57
4	Lightning-induced intensification of the ionospheric sporadic E layer. <i>Nature</i> , 2005, 435, 799-801.	27.8	55
5	Segregation-induced finger formation in granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2016, 809, 168-212.	3.4	46
6	Multiple solutions for granular flow over a smooth two-dimensional bump. <i>Journal of Fluid Mechanics</i> , 2017, 815, 77-116.	3.4	45
7	Entraining gravity currents. <i>Journal of Fluid Mechanics</i> , 2013, 731, 477-508.	3.4	41
8	Self-channelisation and levee formation in monodisperse granular flows. <i>Journal of Fluid Mechanics</i> , 2019, 876, 591-641.	3.4	41
9	Coupling rheology and segregation in granular flows. <i>Journal of Fluid Mechanics</i> , 2021, 909, .	3.4	39
10	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
11	The kinematics of bidisperse granular roll waves. <i>Journal of Fluid Mechanics</i> , 2018, 848, 836-875.	3.4	30
12	Modelling intrusions through quiescent and moving ambients. <i>Journal of Fluid Mechanics</i> , 2015, 771, 370-406.	3.4	25
13	Frictional hysteresis and particle deposition in granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2019, 875, 1058-1095.	3.4	24
14	Asymmetric breaking size-segregation waves in dense granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2016, 794, 460-505.	3.4	22
15	New software protocols for enabling laboratory based temporal CT. <i>Review of Scientific Instruments</i> , 2018, 89, 093702.	1.3	22
16	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
17	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
18	Retrogressive failure of a static granular layer on an inclined plane. <i>Journal of Fluid Mechanics</i> , 2019, 869, 313-340.	3.4	19

#	ARTICLE	IF	CITATIONS
19	Rapid crystallization of precious-metal-mineralized layers in mafic magmatic systems. <i>Nature Geoscience</i> , 2020, 13, 375-381.	12.9	18
20	Erosion-deposition dynamics and long distance propagation of granular avalanches. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	3.4	14
21	Hard auxetic metamaterials. <i>Extreme Mechanics Letters</i> , 2020, 40, 100980.	4.1	13
22	Size segregation of irregular granular materials captured by time-resolved 3D imaging. <i>Scientific Reports</i> , 2021, 11, 8352.	3.3	12
23	Drag, diffusion and segregation in inertial granular flows. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	3.4	12
24	Breaking size-segregation waves and mobility feedback in dense granular avalanches. <i>Granular Matter</i> , 2018, 20, 1.	2.2	11
25	Shedding dynamics and mass exchange by dry granular waves flowing over erodible beds. <i>Earth and Planetary Science Letters</i> , 2019, 523, 115700.	4.4	10
26	Formation of dry granular fronts and watery tails in debris flows. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	3.4	10
27	An experimental study of the motion of a light sphere in a rotating viscous fluid. <i>Journal of Fluid Mechanics</i> , 2018, 847, 119-133.	3.4	9
28	Subcritical and supercritical granular flow around an obstacle on a rough inclined plane. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	7
29	Shocking granular flows. <i>Journal of Fluid Mechanics</i> , 2020, 890, .	3.4	5
30	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
31	Sustained axisymmetric intrusions in a rotating system. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 56, 110-119.	2.5	3
32	Granular jets and hydraulic jumps on an inclined plane. , 2010, , .		0
33	Modelling erosion and deposition in geophysical granular mass flows. <i>Europhysics News</i> , 2021, 52, 29-32.	0.3	0