Andrew Hogg

List of Publications by Year
in descending order

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		172386	206029
82	2,566	29	48
papers	citations	h-index	g-index

83	83	83	1911
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flow of a yield-stress fluid past a topographical feature. Journal of Non-Newtonian Fluid Mechanics, 2022, 299, 104696.	1.0	7
2	Viscoplastic corner eddies. Journal of Fluid Mechanics, 2022, 941, .	1.4	4
3	General linear stability properties of monoclinal shallow waves. Physical Review Fluids, 2022, 7, .	1.0	2
4	The converging flow of viscoplastic fluid in a wedge or cone. Journal of Fluid Mechanics, 2021, 915, .	1.4	6
5	Linear stability of shallow morphodynamic flows. Journal of Fluid Mechanics, 2021, 916, .	1.4	4
6	Modeling the Influence of a Variable Permeability Inclusion on Freeâ€Surface Flow in an Inclined Aquifer. Water Resources Research, 2021, 57, e2020WR029195.	1.7	3
7	Development of supercritical motion and internal jumps within lock-release radial currents and draining flows. Physical Review Fluids, 2021, 6, .	1.0	2
8	Dam-break reflection. Quarterly Journal of Mechanics and Applied Mathematics, 2021, 74, 441-465.	0.5	3
9	Unsteady draining of reservoirs over weirs and through constrictions. Journal of Fluid Mechanics, 2020, 882, .	1.4	4
10	Shallow free-surface Stokes flow around a corner. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190515.	1.6	8
11	Viscous free-surface flows past cylinders. Physical Review Fluids, 2020, 5, .	1.0	9
12	Interaction of viscous free-surface flowsÂwithÂtopography. Journal of Fluid Mechanics, 2019, 876, 912-938.	1.4	9
13	Meteorological Controls on Local and Regional Volcanic Ash Dispersal. Scientific Reports, 2018, 8, 6873.	1.6	23
14	Unsteady turbulent line plumes. Journal of Fluid Mechanics, 2018, 856, 103-134.	1.4	1
15	Models of internal jumps and the fronts of gravity currents: unifying two-layer theories and deriving new results. Journal of Fluid Mechanics, 2018, 846, 654-685.	1.4	15
16	Steady and unsteady fluidised granular flows down slopes. Journal of Fluid Mechanics, 2017, 827, 67-120.	1.4	2
17	Sustained gravity currents in a channel. Journal of Fluid Mechanics, 2016, 798, 853-888.	1.4	26
18	Sustained axisymmetric intrusions in a rotating system. European Journal of Mechanics, B/Fluids, 2016, 56, 110-119.	1.2	3

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19	Unsteady turbulent buoyant plumes. Journal of Fluid Mechanics, 2016, 794, 595-638.	1.4	20
20	Interpretation of umbrella cloud growth and morphology: implications for flow regimes of short-lived and long-lived eruptions. Bulletin of Volcanology, 2016, 78, 1.	1.1	33
21	A global sensitivity analysis of the PlumeRise model of volcanic plumes. Journal of Volcanology and Geothermal Research, 2016, 326, 54-76.	0.8	10
22	Violent breaking wave impacts. Part 3. Effects of scale and aeration. Journal of Fluid Mechanics, 2015, 765, 82-113.	1.4	70
23	Lock-exchange gravity currents propagating in a channel containing an array of obstacles. Journal of Fluid Mechanics, 2015, 765, 544-575.	1.4	20
24	Modelling intrusions through quiescent and moving ambients. Journal of Fluid Mechanics, 2015, 771, 370-406.	1.4	25
25	Uncertainty analysis of a model of wind-blown volcanic plumes. Bulletin of Volcanology, 2015, 77, 83.	1.1	22
26	Key Future Directions For Research On Turbidity Currents and Their Deposits. Journal of Sedimentary Research, 2015, 85, 153-169.	0.8	153
27	Quantitative Analysis of Submarine-Flow Deposit Shape In the Marnoso-Arenacea Formation: What Is the Signature of Hindered Settling From Dense Near-Bed Layers?. Journal of Sedimentary Research, 2015, 85, 170-191.	0.8	14
28	Interaction between volcanic plumes and wind during the 2010 EyjafjallajÃ¶kull eruption, Iceland. Journal of Geophysical Research: Solid Earth, 2013, 118, 92-109.	1.4	162
29	Entraining gravity currents. Journal of Fluid Mechanics, 2013, 731, 477-508.	1.4	41
30	Unconfined slumping of a granular mass on a slope. Physics of Fluids, 2013, 25, .	1.6	11
31	Polydisperse suspensions: Erosion, deposition, and flow capacity. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1939-1955.	1.0	28
32	Viscous exchange flows. Physics of Fluids, 2012, 24, .	1.6	18
33	Length and Time Scales of Response of Sediment Suspensions to Changing Flow Conditions. Journal of Hydraulic Engineering, 2012, 138, 430-439.	0.7	25
34	Overtopping of solitary waves and solitary bores on a plane beach. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 3494-3516.	1.0	27
35	A two-layer approach to modelling the transformation of dilute pyroclastic currents into dense pyroclastic flows. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 1348-1371.	1.0	18
36	The structure of the deposit produced by sedimentation of polydisperse suspensions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	29

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37	Overtopping a truncated planar beach. Journal of Fluid Mechanics, 2011, 666, 521-553.	1.4	15
38	Bounded dam-break flows with tailwaters. Journal of Fluid Mechanics, 2011, 686, 160-186.	1.4	13
39	Rapid granular flows down inclined planar chutes. Part 1. Steady flows, multiple solutions and existence domains. Journal of Fluid Mechanics, 2010, 652, 427-460.	1.4	7
40	Rapid granular flows down inclined planar chutes. Part 2. Linear stability analysis of steady flow solutions. Journal of Fluid Mechanics, 2010, 652, 461-488.	1.4	9
41	Sedimentation of bidisperse suspensions. International Journal of Multiphase Flow, 2010, 36, 481-490.	1.6	29
42	The early stages of shallow flows in an inclined flume. Journal of Fluid Mechanics, 2009, 633, 285-309.	1.4	11
43	Run-up and backwash bore formation from dam-break flow on an inclined plane. Journal of Fluid Mechanics, 2009, 640, 151-164.	1.4	16
44	Modeling dense pyroclastic basal flows from collapsing columns. Geophysical Research Letters, 2008, 35, .	1.5	30
45	The effects of gas flow on granular currents. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 2191-2203.	1.6	7
46	Two-dimensional granular slumps down slopes. Physics of Fluids, 2007, 19, .	1.6	22
47	Freely draining gravity currents in porous media: Dipole self-similar solutions with and without capillary retention. European Journal of Applied Mathematics, 2007, 18, 337-362.	1.4	8
48	Two-dimensional dam break flows of Herschelâ€“Bulkley fluids: The approach to the arrested state. Journal of Non-Newtonian Fluid Mechanics, 2007, 142, 79-94.	1.0	39
49	Lock-release gravity currents and dam-break flows. Journal of Fluid Mechanics, 2006, 569, 61.	1.4	52
50	Stability of gravity currents generated by finite-volume releases. Journal of Fluid Mechanics, 2006, 562, 261.	1.4	5
51	Self-similar gravity currents in porous media: Linear stability of the Barenblattâ€“Pattle solution revisited. European Journal of Mechanics, B/Fluids, 2006, 25, 360-378.	1.2	17
52	A three-phase mixture theory for particle size segregation in shallow granular free-surface flows. Journal of Fluid Mechanics, 2006, 550, 1.	1.4	81
53	Reply to discussion of â€œOn the transport of suspended sediment by a swash event on a plane beachâ€• [Coastal Engineering 52 (2005) 1â€“23]. Coastal Engineering, 2006, 53, 115-118.	1.7	3
54	On the transport of suspended sediment by a swash event on a plane beach. Coastal Engineering, 2005, 52, 1-23.	1.7	103

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55	Oblique shocks in rapid granular flows. Physics of Fluids, 2005, 17, 077101.	1.6	79
56	On gravity currents driven by constant fluxes of saline and particle-laden fluid in the presence of a uniform flow. Journal of Fluid Mechanics, 2005, 539, 349.	1.4	32
57	Abrupt transitions in gravity currents. Journal of Geophysical Research, 2005, 110, .	3.3	24
58	The effects of hydraulic resistance on dam-break and other shallow inertial flows. Journal of Fluid Mechanics, 2004, 501, 179-212.	1.4	148
59	Large-Scale Avalanche Braking Mound and Catching Dam Experiments with Snow: A Study of the Airborne Jet. Surveys in Geophysics, 2003, 24, 543-554.	2.1	27
60	Suspended sediment transport under seiches in circular and elliptical basins. Coastal Engineering, 2003, 49, 43-70.	1.7	11
61	On fine sediment transport by long waves in the swash zone of a plane beach. Journal of Fluid Mechanics, 2003, 493, 255-275.	1.4	9
62	Cross-shore sediment transport and the equilibrium morphology of mudflats under tidal currents. Journal of Geophysical Research, 2003, 108, .	3.3	81
63	Flying avalanches. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	41
64	A laboratory study of the retarding effects of braking mounds on snow avalanches. Journal of Glaciology, 2003, 49, 191-200.	1.1	49
65	Experimental constraints on shear mixing rates and processes: implications for the dilution of submarine debris flows. Geological Society Special Publication, 2002, 203, 89-103.	0.8	24
66	On sediment transport under dam-break flow. Journal of Fluid Mechanics, 2002, 473, 265-274.	1.4	40
67	Polydisperse particle-driven gravity currents. Journal of Fluid Mechanics, 2002, 472, 333-371.	1.4	45
68	Draining viscous gravity currents in a vertical fracture. Journal of Fluid Mechanics, 2002, 459, 207-216.	1.4	26
69	Occurrence and origin of submarine plunge pools at the base of the US continental slope. Marine Geology, 2002, 185, 363-377.	0.9	72
70	A mathematical framework for the analysis of particleâ€“driven gravity currents. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 1241-1272.	1.0	22
71	The transition from inertia- to bottom-drag-dominated motion of turbulent gravity currents. Journal of Fluid Mechanics, 2001, 449, 201-224.	1.4	37
72	On the slow draining of a gravity current moving through a layered permeable medium. Journal of Fluid Mechanics, 2001, 444, 23-47.	1.4	88

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73	Resuspension by saline and particle-driven gravity currents. Journal of Geophysical Research, 2001, 106, 14095-14111.	3.3	8
74	Effects of particle sedimentation and rotation on axisymmetric gravity currents. Physics of Fluids, 2001, 13, 3687-3698.	1.6	9
75	Spreading and deposition of particulate matter in uniform flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2001, 39, 505-518.	0.7	8
76	The effects of drag on turbulent gravity currents. Journal of Fluid Mechanics, 2000, 416, 297-314.	1.4	38
77	Particle-driven gravity currents: asymptotic and box model solutions. European Journal of Mechanics, B/Fluids, 2000, 19, 139-165.	1.2	51
78	Reversing buoyancy of particle-driven gravity currents. Physics of Fluids, 1999, 11, 2891-2900.	1.6	32
79	Effects of external flow on compositional and particle gravity currents. Journal of Fluid Mechanics, 1998, 359, 109-142.	1.4	72
80	Erosion by planar turbulent wall jets. Journal of Fluid Mechanics, 1997, 338, 317-340.	1.4	70
81	The inertial migration of non-neutrally buoyant spherical particles in two-dimensional shear flows. Journal of Fluid Mechanics, 1994, 272, 285-318.	1.4	96
82	Two-Dimensional and Axisymmetric Models for Compositional and Particle-Driven Gravity Currents in Uniform Ambient Flows. , 0, , 121-134.		2