

# Andrew Hogg

## 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.

78 papers	2,012 citations	26 h-index	42 g-index
83 ext. papers	2,303 ext. citations	3.5 avg, IF	5.03 L-index

#	Paper	IF	Citations
78	Interaction between volcanic plumes and wind during the 2010 Eyjafjallajökull eruption, Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 92-109	3.6	129
77	The effects of hydraulic resistance on dam-break and other shallow inertial flows. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 501, 179-212	3.7	119
76	Key Future Directions For Research On Turbidity Currents and Their Deposits. <i>Journal of Sedimentary Research</i> , <b>2015</b> , 85, 153-169	2.1	107
75	On the transport of suspended sediment by a swash event on a plane beach. <i>Coastal Engineering</i> , <b>2005</b> , 52, 1-23	4.8	90
74	The inertial migration of non-neutrally buoyant spherical particles in two-dimensional shear flows. <i>Journal of Fluid Mechanics</i> , <b>1994</b> , 272, 285-318	3.7	84
73	Cross-shore sediment transport and the equilibrium morphology of mudflats under tidal currents. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		69
72	A three-phase mixture theory for particle size segregation in shallow granular free-surface flows. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 550, 1	3.7	68
71	On the slow draining of a gravity current moving through a layered permeable medium. <i>Journal of Fluid Mechanics</i> , <b>2001</b> , 444, 23-47	3.7	68
70	Oblique shocks in rapid granular flows. <i>Physics of Fluids</i> , <b>2005</b> , 17, 077101	4.4	65
69	Effects of external flow on compositional and particle gravity currents. <i>Journal of Fluid Mechanics</i> , <b>1998</b> , 359, 109-142	3.7	61
68	Erosion by planar turbulent wall jets. <i>Journal of Fluid Mechanics</i> , <b>1997</b> , 338, 317-340	3.7	60
67	Violent breaking wave impacts. Part 3. Effects of scale and aeration. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 765, 82-113	3.7	50
66	Occurrence and origin of submarine plunge pools at the base of the US continental slope. <i>Marine Geology</i> , <b>2002</b> , 185, 363-377	3.3	47
65	A laboratory study of the retarding effects of braking mounds on snow avalanches. <i>Journal of Glaciology</i> , <b>2003</b> , 49, 191-200	3.4	43
64	Polydisperse particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 472, 333-371	3.7	41
63	Lock-release gravity currents and dam-break flows. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 569, 61	3.7	38
62	Flying avalanches. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	35

61	Particle-driven gravity currents: asymptotic and box model solutions. <i>European Journal of Mechanics, B/Fluids</i> , <b>2000</b> , 19, 139-165	2.4	35
60	On sediment transport under dam-break flow. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 473, 265-274	3.7	34
59	The effects of drag on turbulent gravity currents. <i>Journal of Fluid Mechanics</i> , <b>2000</b> , 416, 297-314	3.7	33
58	Entraining gravity currents. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 731, 477-508	3.7	32
57	Two-dimensional dam break flows of Herschel-Bulkley fluids: The approach to the arrested state. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2007</b> , 142, 79-94	2.7	32
56	On gravity currents driven by constant fluxes of saline and particle-laden fluid in the presence of a uniform flow. <i>Journal of Fluid Mechanics</i> , <b>2005</b> , 539, 349	3.7	30
55	The transition from inertia- to bottom-drag-dominated motion of turbulent gravity currents. <i>Journal of Fluid Mechanics</i> , <b>2001</b> , 449, 201-224	3.7	29
54	Interpretation of umbrella cloud growth and morphology: implications for flow regimes of short-lived and long-lived eruptions. <i>Bulletin of Volcanology</i> , <b>2016</b> , 78, 1	2.4	28
53	Reversing buoyancy of particle-driven gravity currents. <i>Physics of Fluids</i> , <b>1999</b> , 11, 2891-2900	4.4	26
52	Modeling dense pyroclastic basal flows from collapsing columns. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	25
51	Large-Scale Avalanche Braking Mound and Catching Dam Experiments with Snow: A Study of the Airborne Jet. <i>Surveys in Geophysics</i> , <b>2003</b> , 24, 543-554	7.6	23
50	The structure of the deposit produced by sedimentation of polydisperse suspensions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		22
49	Modelling intrusions through quiescent and moving ambients. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 771, 370-406	3.7	21
48	Uncertainty analysis of a model of wind-blown volcanic plumes. <i>Bulletin of Volcanology</i> , <b>2015</b> , 77, 83	2.4	21
47	Polydisperse suspensions: Erosion, deposition, and flow capacity. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 1939-1955	3.8	21
46	Length and Time Scales of Response of Sediment Suspensions to Changing Flow Conditions. <i>Journal of Hydraulic Engineering</i> , <b>2012</b> , 138, 430-439	1.8	21
45	Two-dimensional granular slumps down slopes. <i>Physics of Fluids</i> , <b>2007</b> , 19, 093301	4.4	21
44	Draining viscous gravity currents in a vertical fracture. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 459, 207-216	3.7	21

43	Overtopping of solitary waves and solitary bores on a plane beach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2012</b> , 468, 3494-3516	2.4	20
42	Sedimentation of bidisperse suspensions. <i>International Journal of Multiphase Flow</i> , <b>2010</b> , 36, 481-490	3.6	20
41	Sustained gravity currents in a channel. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 798, 853-888	3.7	17
40	A two-layer approach to modelling the transformation of dilute pyroclastic currents into dense pyroclastic flows. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2011</b> , 467, 1348-1371	2.4	16
39	Experimental constraints on shear mixing rates and processes: implications for the dilution of submarine debris flows. <i>Geological Society Special Publication</i> , <b>2002</b> , 203, 89-103	1.7	16
38	Abrupt transitions in gravity currents. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		15
37	Unsteady turbulent buoyant plumes. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 794, 595-638	3.7	15
36	Lock-exchange gravity currents propagating in a channel containing an array of obstacles. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 765, 544-575	3.7	14
35	Self-similar gravity currents in porous media: Linear stability of the Barenblatt-Battle solution revisited. <i>European Journal of Mechanics, B/Fluids</i> , <b>2006</b> , 25, 360-378	2.4	14
34	Meteorological Controls on Local and Regional Volcanic Ash Dispersal. <i>Scientific Reports</i> , <b>2018</b> , 8, 6873	4.9	13
33	Viscous exchange flows. <i>Physics of Fluids</i> , <b>2012</b> , 24, 023102	4.4	13
32	Run-up and backwash bore formation from dam-break flow on an inclined plane. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 640, 151-164	3.7	13
31	Quantitative Analysis of Submarine-Flow Deposit Shape In the Marnoso-Arenacea Formation: What Is the Signature of Hindered Settling From Dense Near-Bed Layers?. <i>Journal of Sedimentary Research</i> , <b>2015</b> , 85, 170-191	2.1	11
30	The early stages of shallow flows in an inclined flume. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 633, 285-309	3.7	11
29	Unconfined slumping of a granular mass on a slope. <i>Physics of Fluids</i> , <b>2013</b> , 25, 023302	4.4	10
28	Overtopping a truncated planar beach. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 666, 521-553	3.7	10
27	Suspended sediment transport under seiches in circular and elliptical basins. <i>Coastal Engineering</i> , <b>2003</b> , 49, 43-70	4.8	10
26	A mathematical framework for the analysis of particle-driven gravity currents. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2001</b> , 457, 1241-1272	2.4	10

25	On fine sediment transport by long waves in the swash zone of a plane beach. <i>Journal of Fluid Mechanics</i> , <b>2003</b> , 493, 255-275	3.7	9
24	A global sensitivity analysis of the PlumeRise model of volcanic plumes. <i>Journal of Volcanology and Geothermal Research</i> , <b>2016</b> , 326, 54-76	2.8	8
23	Models of internal jumps and the fronts of gravity currents: unifying two-layer theories and deriving new results. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 846, 654-685	3.7	8
22	Bounded dam-break flows with tailwaters. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 686, 160-186	3.7	8
21	Freely draining gravity currents in porous media: Dipole self-similar solutions with and without capillary retention. <i>European Journal of Applied Mathematics</i> , <b>2007</b> , 18, 337-362	1	8
20	Effects of particle sedimentation and rotation on axisymmetric gravity currents. <i>Physics of Fluids</i> , <b>2001</b> , 13, 3687-3698	4.4	8
19	Rapid granular flows down inclined planar chutes. Part 2. Linear stability analysis of steady flow solutions. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 652, 461-488	3.7	7
18	The effects of gas flow on granular currents. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2008</b> , 366, 2191-203	3	7
17	Resuspension by saline and particle-driven gravity currents. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 14095-14111		7
16	Rapid granular flows down inclined planar chutes. Part 1. Steady flows, multiple solutions and existence domains. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 652, 427-460	3.7	6
15	Spreading and deposition of particulate matter in uniform flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2001</b> , 39, 505-518	1.9	6
14	Interaction of viscous free-surface flows with topography. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 876, 912-938	3.7	5
13	Stability of gravity currents generated by finite-volume releases. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 562, 261	3.7	5
12	Viscous free-surface flows past cylinders. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	4
11	Shallow free-surface Stokes flow around a corner. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2020</b> , 378, 20190515	3	4
10	Reply to discussion of [On the transport of suspended sediment by a swash event on a plane beach][Coastal Engineering 52 (2005) 103]. <i>Coastal Engineering</i> , <b>2006</b> , 53, 115-118	4.8	3
9	Modeling the Influence of a Variable Permeability Inclusion on Free-Surface Flow in an Inclined Aquifer. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR029195	5.4	3
8	Steady and unsteady fluidised granular flows down slopes. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 827, 67-120	3.7	2

7	Sustained axisymmetric intrusions in a rotating system. <i>European Journal of Mechanics, B/Fluids</i> , <b>2016</b> , 56, 110-119	2.4	2
6	Two-Dimensional and Axisymmetric Models for Compositional and Particle-Driven Gravity Currents in Uniform Ambient Flows 121-134		1
5	Avalanche Defence Schemes <b>2016</b> , 53-58		1
4	Unsteady draining of reservoirs over weirs and through constrictions. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 882,	3.7	1
3	Development of supercritical motion and internal jumps within lock-release radial currents and draining flows. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	1
2	Unsteady turbulent line plumes. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 856, 103-134	3.7	1
1	Flow of a yield-stress fluid past a topographical feature. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2022</b> , 299, 104696	2.7	0