

# Andrew Hogg

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6887255/publications.pdf>

Version: 2024-02-01

82  
papers

2,566  
citations

172386

29  
h-index

206029

48  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1911  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction between volcanic plumes and wind during the 2010 Eyjafjallajökull eruption, Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 92-109.	1.4	162
2	Key Future Directions For Research On Turbidity Currents and Their Deposits. <i>Journal of Sedimentary Research</i> , 2015, 85, 153-169.	0.8	153
3	The effects of hydraulic resistance on dam-break and other shallow inertial flows. <i>Journal of Fluid Mechanics</i> , 2004, 501, 179-212.	1.4	148
4	On the transport of suspended sediment by a swash event on a plane beach. <i>Coastal Engineering</i> , 2005, 52, 1-23.	1.7	103
5	The inertial migration of non-neutrally buoyant spherical particles in two-dimensional shear flows. <i>Journal of Fluid Mechanics</i> , 1994, 272, 285-318.	1.4	96
6	On the slow draining of a gravity current moving through a layered permeable medium. <i>Journal of Fluid Mechanics</i> , 2001, 444, 23-47.	1.4	88
7	Cross-shore sediment transport and the equilibrium morphology of mudflats under tidal currents. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	81
8	A three-phase mixture theory for particle size segregation in shallow granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2006, 550, 1.	1.4	81
9	Oblique shocks in rapid granular flows. <i>Physics of Fluids</i> , 2005, 17, 077101.	1.6	79
10	Effects of external flow on compositional and particle gravity currents. <i>Journal of Fluid Mechanics</i> , 1998, 359, 109-142.	1.4	72
11	Occurrence and origin of submarine plunge pools at the base of the US continental slope. <i>Marine Geology</i> , 2002, 185, 363-377.	0.9	72
12	Erosion by planar turbulent wall jets. <i>Journal of Fluid Mechanics</i> , 1997, 338, 317-340.	1.4	70
13	Violent breaking wave impacts. Part 3. Effects of scale and aeration. <i>Journal of Fluid Mechanics</i> , 2015, 765, 82-113.	1.4	70
14	Lock-release gravity currents and dam-break flows. <i>Journal of Fluid Mechanics</i> , 2006, 569, 61.	1.4	52
15	Particle-driven gravity currents: asymptotic and box model solutions. <i>European Journal of Mechanics, B/Fluids</i> , 2000, 19, 139-165.	1.2	51
16	A laboratory study of the retarding effects of braking mounds on snow avalanches. <i>Journal of Glaciology</i> , 2003, 49, 191-200.	1.1	49
17	Polydisperse particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 2002, 472, 333-371.	1.4	45
18	Flying avalanches. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	41

#	ARTICLE	IF	CITATIONS
19	Entraining gravity currents. <i>Journal of Fluid Mechanics</i> , 2013, 731, 477-508.	1.4	41
20	On sediment transport under dam-break flow. <i>Journal of Fluid Mechanics</i> , 2002, 473, 265-274.	1.4	40
21	Two-dimensional dam break flows of Herschel-Bulkley fluids: The approach to the arrested state. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 142, 79-94.	1.0	39
22	The effects of drag on turbulent gravity currents. <i>Journal of Fluid Mechanics</i> , 2000, 416, 297-314.	1.4	38
23	The transition from inertia- to bottom-drag-dominated motion of turbulent gravity currents. <i>Journal of Fluid Mechanics</i> , 2001, 449, 201-224.	1.4	37
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.	1.1	33
25	Reversing buoyancy of particle-driven gravity currents. <i>Physics of Fluids</i> , 1999, 11, 2891-2900.	1.6	32
26	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> , 2005, 539, 349.	1.4	32
27	Modeling dense pyroclastic basal flows from collapsing columns. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	30
28	Sedimentation of bidisperse suspensions. <i>International Journal of Multiphase Flow</i> , 2010, 36, 481-490.	1.6	29
29	The structure of the deposit produced by sedimentation of polydisperse suspensions. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	29
30	Polydisperse suspensions: Erosion, deposition, and flow capacity. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1939-1955.	1.0	28
31	Large-Scale Avalanche Braking Mound and Catching Dam Experiments with Snow: A Study of the Airborne Jet. <i>Surveys in Geophysics</i> , 2003, 24, 543-554.	2.1	27
32	Overtopping of solitary waves and solitary bores on a plane beach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 3494-3516.	1.0	27
33	Draining viscous gravity currents in a vertical fracture. <i>Journal of Fluid Mechanics</i> , 2002, 459, 207-216.	1.4	26
34	Sustained gravity currents in a channel. <i>Journal of Fluid Mechanics</i> , 2016, 798, 853-888.	1.4	26
35	Length and Time Scales of Response of Sediment Suspensions to Changing Flow Conditions. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 430-439.	0.7	25
36	Modelling intrusions through quiescent and moving ambients. <i>Journal of Fluid Mechanics</i> , 2015, 771, 370-406.	1.4	25

#	ARTICLE	IF	CITATIONS
37	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
38	Abrupt transitions in gravity currents. Journal of Geophysical Research, 2005, 110, .	3.3	24
39	Meteorological Controls on Local and Regional Volcanic Ash Dispersal. Scientific Reports, 2018, 8, 6873.	1.6	23
40	A mathematical framework for the analysis of particle-driven gravity currents. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 1241-1272.	1.0	22
41	Two-dimensional granular slumps down slopes. Physics of Fluids, 2007, 19, .	1.6	22
42	Uncertainty analysis of a model of wind-blown volcanic plumes. Bulletin of Volcanology, 2015, 77, 83.	1.1	22
43	Lock-exchange gravity currents propagating in a channel containing an array of obstacles. Journal of Fluid Mechanics, 2015, 765, 544-575.	1.4	20
44	Unsteady turbulent buoyant plumes. Journal of Fluid Mechanics, 2016, 794, 595-638.	1.4	20
45	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
46	Viscous exchange flows. Physics of Fluids, 2012, 24, .	1.6	18
47	Self-similar gravity currents in porous media: Linear stability of the Barenblatt-Pattle solution revisited. European Journal of Mechanics, B/Fluids, 2006, 25, 360-378.	1.2	17
48	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
49	Overtopping a truncated planar beach. Journal of Fluid Mechanics, 2011, 666, 521-553.	1.4	15
50	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
51	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
52	Bounded dam-break flows with tailwaters. Journal of Fluid Mechanics, 2011, 686, 160-186.	1.4	13
53	Suspended sediment transport under seiches in circular and elliptical basins. Coastal Engineering, 2003, 49, 43-70.	1.7	11
54	The early stages of shallow flows in an inclined flume. Journal of Fluid Mechanics, 2009, 633, 285-309.	1.4	11

#	ARTICLE	IF	CITATIONS
55	Unconfined slumping of a granular mass on a slope. <i>Physics of Fluids</i> , 2013, 25, .	1.6	11
56	A global sensitivity analysis of the PlumeRise model of volcanic plumes. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 326, 54-76.	0.8	10
57	Effects of particle sedimentation and rotation on axisymmetric gravity currents. <i>Physics of Fluids</i> , 2001, 13, 3687-3698.	1.6	9
58	On fine sediment transport by long waves in the swash zone of a plane beach. <i>Journal of Fluid Mechanics</i> , 2003, 493, 255-275.	1.4	9
59	Rapid granular flows down inclined planar chutes. Part 2. Linear stability analysis of steady flow solutions. <i>Journal of Fluid Mechanics</i> , 2010, 652, 461-488.	1.4	9
60	Interaction of viscous free-surface flows with topography. <i>Journal of Fluid Mechanics</i> , 2019, 876, 912-938.	1.4	9
61	Viscous free-surface flows past cylinders. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	9
62	Resuspension by saline and particle-driven gravity currents. <i>Journal of Geophysical Research</i> , 2001, 106, 14095-14111.	3.3	8
63	Spreading and deposition of particulate matter in uniform flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2001, 39, 505-518.	0.7	8
64	Freely draining gravity currents in porous media: Dipole self-similar solutions with and without capillary retention. <i>European Journal of Applied Mathematics</i> , 2007, 18, 337-362.	1.4	8
65	Shallow free-surface Stokes flow around a corner. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190515.	1.6	8
66	The effects of gas flow on granular currents. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 2191-2203.	1.6	7
67	Rapid granular flows down inclined planar chutes. Part 1. Steady flows, multiple solutions and existence domains. <i>Journal of Fluid Mechanics</i> , 2010, 652, 427-460.	1.4	7
68	Flow of a yield-stress fluid past a topographical feature. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2022, 299, 104696.	1.0	7
69	The converging flow of viscoplastic fluid in a wedge or cone. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	6
70	Stability of gravity currents generated by finite-volume releases. <i>Journal of Fluid Mechanics</i> , 2006, 562, 261.	1.4	5
71	Unsteady draining of reservoirs over weirs and through constrictions. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	1.4	4
72	Linear stability of shallow morphodynamic flows. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	4

#	ARTICLE	IF	CITATIONS
73	Viscoplastic corner eddies. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	1.4	4
74	Reply to discussion of "On the transport of suspended sediment by a swash event on a plane beach" [Coastal Engineering 52 (2005) 1-23]. <i>Coastal Engineering</i> , 2006, 53, 115-118.	1.7	3
75	Sustained axisymmetric intrusions in a rotating system. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 56, 110-119.	1.2	3
76	Modeling the Influence of a Variable Permeability Inclusion on Free-Surface Flow in an Inclined Aquifer. <i>Water Resources Research</i> , 2021, 57, e2020WR029195.	1.7	3
77	Dam-break reflection. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2021, 74, 441-465.	0.5	3
78	Two-Dimensional and Axisymmetric Models for Compositional and Particle-Driven Gravity Currents in Uniform Ambient Flows. , 0, , 121-134.		2
79	Steady and unsteady fluidised granular flows down slopes. <i>Journal of Fluid Mechanics</i> , 2017, 827, 67-120.	1.4	2
80	Development of supercritical motion and internal jumps within lock-release radial currents and draining flows. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	2
81	General linear stability properties of monoclinal shallow waves. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	2
82	Unsteady turbulent line plumes. <i>Journal of Fluid Mechanics</i> , 2018, 856, 103-134.	1.4	1