## Andrew Hogg

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Interaction between volcanic plumes and wind during the 2010 Eyjafjallajökull eruption, Iceland.<br>Journal of Geophysical Research: Solid Earth, 2013, 118, 92-109. | 3.4 | 162       |
| 2  | Key Future Directions For Research On Turbidity Currents and Their Deposits. Journal of Sedimentary<br>Research, 2015, 85, 153-169.                                  | 1.6 | 153       |
| 3  | The effects of hydraulic resistance on dam-break and other shallow inertial flows. Journal of Fluid<br>Mechanics, 2004, 501, 179-212.                                | 3.4 | 148       |
| 4  | On the transport of suspended sediment by a swash event on a plane beach. Coastal Engineering, 2005, 52, 1-23.   | 4.0 | 103       |
| 5  | The inertial migration of non-neutrally buoyant spherical particles in two-dimensional shear flows.<br>Journal of Fluid Mechanics, 1994, 272, 285-318.               | 3.4 | 96        |
| 6  | On the slow draining of a gravity current moving through a layered permeable medium. Journal of Fluid Mechanics, 2001, 444, 23-47.                                   | 3.4 | 88        |
| 7  | Cross-shore sediment transport and the equilibrium morphology of mudflats under tidal currents.<br>Journal of Geophysical Research, 2003, 108, .                     | 3.3 | 81        |
| 8  | A three-phase mixture theory for particle size segregation in shallow granular free-surface flows.<br>Journal of Fluid Mechanics, 2006, 550, 1.                      | 3.4 | 81        |
| 9  | Oblique shocks in rapid granular flows. Physics of Fluids, 2005, 17, 077101.   | 4.0 | 79        |
| 10 | Effects of external flow on compositional and particle gravity currents. Journal of Fluid Mechanics, 1998, 359, 109-142.   | 3.4 | 72        |
| 11 | Occurrence and origin of submarine plunge pools at the base of the US continental slope. Marine<br>Geology, 2002, 185, 363-377.                                      | 2.1 | 72        |
| 12 | Erosion by planar turbulent wall jets. Journal of Fluid Mechanics, 1997, 338, 317-340.   | 3.4 | 70        |
| 13 | Violent breaking wave impacts. Part 3. Effects of scale and aeration. Journal of Fluid Mechanics, 2015, 765, 82-113.   | 3.4 | 70        |
| 14 | Lock-release gravity currents and dam-break flows. Journal of Fluid Mechanics, 2006, 569, 61.  | 3.4 | 52        |
| 15 | Particle-driven gravity currents: asymptotic and box model solutions. European Journal of Mechanics,<br>B/Fluids, 2000, 19, 139-165.                                 | 2.5 | 51        |
| 16 | A laboratory study of the retarding effects of braking mounds on snow avalanches. Journal of Glaciology, 2003, 49, 191-200.  | 2.2 | 49        |
| 17 | Polydisperse particle-driven gravity currents. Journal of Fluid Mechanics, 2002, 472, 333-371.   | 3.4 | 45        |
| 18 | Flying avalanches. Geophysical Research Letters, 2003, 30, n/a-n/a.  | 4.0 | 41        |

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|----|--|-----|-----------|
| 19 | Entraining gravity currents. Journal of Fluid Mechanics, 2013, 731, 477-508.   | 3.4 | 41        |
| 20 | On sediment transport under dam-break flow. Journal of Fluid Mechanics, 2002, 473, 265-274.  | 3.4 | 40        |
| 21 | Two-dimensional dam break flows of Herschel–Bulkley fluids: The approach to the arrested state.<br>Journal of Non-Newtonian Fluid Mechanics, 2007, 142, 79-94.                   | 2.4 | 39        |
| 22 | The effects of drag on turbulent gravity currents. Journal of Fluid Mechanics, 2000, 416, 297-314.   | 3.4 | 38        |
| 23 | The transition from inertia- to bottom-drag-dominated motion of turbulent gravity currents. Journal of Fluid Mechanics, 2001, 449, 201-224.                                      | 3.4 | 37        |
| 24 | Interpretation of umbrella cloud growth and morphology: implications for flow regimes of short-lived and long-lived eruptions. Bulletin of Volcanology, 2016, 78, 1.             | 3.0 | 33        |
| 25 | Reversing buoyancy of particle-driven gravity currents. Physics of Fluids, 1999, 11, 2891-2900.  | 4.0 | 32        |
| 26 | 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.                  | 3.4 | 32        |
| 27 | Modeling dense pyroclastic basal flows from collapsing columns. Geophysical Research Letters, 2008, 35, .  | 4.0 | 30        |
| 28 | Sedimentation of bidisperse suspensions. International Journal of Multiphase Flow, 2010, 36, 481-490.  | 3.4 | 29        |
| 29 | The structure of the deposit produced by sedimentation of polydisperse suspensions. Journal of<br>Geophysical Research, 2011, 116, n/a-n/a.                                      | 3.3 | 29        |
| 30 | Polydisperse suspensions: Erosion, deposition, and flow capacity. Journal of Geophysical Research F:<br>Earth Surface, 2013, 118, 1939-1955.                                     | 2.8 | 28        |
| 31 | Large-Scale Avalanche Braking Mound and Catching Dam Experiments with Snow: A Study of the<br>Airborne Jet. Surveys in Geophysics, 2003, 24, 543-554.                            | 4.6 | 27        |
| 32 | Overtopping of solitary waves and solitary bores on a plane beach. Proceedings of the Royal Society A:<br>Mathematical, Physical and Engineering Sciences, 2012, 468, 3494-3516. | 2.1 | 27        |
| 33 | Draining viscous gravity currents in a vertical fracture. Journal of Fluid Mechanics, 2002, 459, 207-216.  | 3.4 | 26        |
| 34 | Sustained gravity currents in a channel. Journal of Fluid Mechanics, 2016, 798, 853-888.   | 3.4 | 26        |
| 35 | Length and Time Scales of Response of Sediment Suspensions to Changing Flow Conditions. Journal of Hydraulic Engineering, 2012, 138, 430-439.                                    | 1.5 | 25        |
| 36 | Modelling intrusions through quiescent and moving ambients. Journal of Fluid Mechanics, 2015, 771, 370-406.  | 3.4 | 25        |

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|----|--|-----|-----------|
| 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.  | 1.3 | 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,<br>6873.  | 3.3 | 23        |
| 40 | A mathematical framework for the analysis of particle–driven gravity currents. Proceedings of the<br>Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 1241-1272.                                       | 2.1 | 22        |
| 41 | Two-dimensional granular slumps down slopes. Physics of Fluids, 2007, 19, .  | 4.0 | 22        |
| 42 | Uncertainty analysis of a model of wind-blown volcanic plumes. Bulletin of Volcanology, 2015, 77, 83.  | 3.0 | 22        |
| 43 | Lock-exchange gravity currents propagating in a channel containing an array of obstacles. Journal of<br>Fluid Mechanics, 2015, 765, 544-575.   | 3.4 | 20        |
| 44 | Unsteady turbulent buoyant plumes. Journal of Fluid Mechanics, 2016, 794, 595-638.   | 3.4 | 20        |
| 45 | A two-layer approach to modelling the transformation of dilute pyroclastic currents into dense<br>pyroclastic flows. Proceedings of the Royal Society A: Mathematical, Physical and Engineering<br>Sciences, 2011, 467, 1348-1371. | 2.1 | 18        |
| 46 | Viscous exchange flows. Physics of Fluids, 2012, 24, .   | 4.0 | 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.   | 2.5 | 17        |
| 48 | Run-up and backwash bore formation from dam-break flow on an inclined plane. Journal of Fluid<br>Mechanics, 2009, 640, 151-164.  | 3.4 | 16        |
| 49 | Overtopping a truncated planar beach. Journal of Fluid Mechanics, 2011, 666, 521-553.  | 3.4 | 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.   | 3.4 | 15        |
| 51 | Quantitative Analysis of Submarine-Flow Deposit Shape In the Marnoso-Arenacea Formation: What Is<br>the Signature of Hindered Settling From Dense Near-Bed Layers?. Journal of Sedimentary Research,<br>2015, 85, 170-191.         | 1.6 | 14        |
| 52 | Bounded dam-break flows with tailwaters. Journal of Fluid Mechanics, 2011, 686, 160-186.   | 3.4 | 13        |
| 53 | Suspended sediment transport under seiches in circular and elliptical basins. Coastal Engineering, 2003, 49, 43-70.  | 4.0 | 11        |
| 54 | The early stages of shallow flows in an inclined flume. Journal of Fluid Mechanics, 2009, 633, 285-309.  | 3.4 | 11        |

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|----|---|-----|-----------|
| 55 | Unconfined slumping of a granular mass on a slope. Physics of Fluids, 2013, 25, .   | 4.0 | 11        |
| 56 | A global sensitivity analysis of the PlumeRise model of volcanic plumes. Journal of Volcanology and<br>Geothermal Research, 2016, 326, 54-76.                                     | 2.1 | 10        |
| 57 | Effects of particle sedimentation and rotation on axisymmetric gravity currents. Physics of Fluids, 2001, 13, 3687-3698.  | 4.0 | 9         |
| 58 | On fine sediment transport by long waves in the swash zone of a plane beach. Journal of Fluid<br>Mechanics, 2003, 493, 255-275.   | 3.4 | 9         |
| 59 | Rapid granular flows down inclined planar chutes. Part 2. Linear stability analysis of steady flow solutions. Journal of Fluid Mechanics, 2010, 652, 461-488.                     | 3.4 | 9         |
| 60 | Interaction of viscous free-surface flowsÂwithÂtopography. Journal of Fluid Mechanics, 2019, 876,<br>912-938.   | 3.4 | 9         |
| 61 | Viscous free-surface flows past cylinders. Physical Review Fluids, 2020, 5, .   | 2.5 | 9         |
| 62 | Resuspension by saline and particle-driven gravity currents. Journal of Geophysical Research, 2001, 106, 14095-14111.   | 3.3 | 8         |
| 63 | Spreading and deposition of particulate matter in uniform flows. Journal of Hydraulic Research/De<br>Recherches Hydrauliques, 2001, 39, 505-518.                                  | 1.7 | 8         |
| 64 | 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. | 2.9 | 8         |
| 65 | Shallow free-surface Stokes flow around a corner. Philosophical Transactions Series A,<br>Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190515.                  | 3.4 | 8         |
| 66 | The effects of gas flow on granular currents. Philosophical Transactions Series A, Mathematical,<br>Physical, and Engineering Sciences, 2008, 366, 2191-2203.                     | 3.4 | 7         |
| 67 | Rapid granular flows down inclined planar chutes. Part 1. Steady flows, multiple solutions and existence domains. Journal of Fluid Mechanics, 2010, 652, 427-460.                 | 3.4 | 7         |
| 68 | Flow of a yield-stress fluid past a topographical feature. Journal of Non-Newtonian Fluid Mechanics,<br>2022, 299, 104696.  | 2.4 | 7         |
| 69 | The converging flow of viscoplastic fluid in a wedge or cone. Journal of Fluid Mechanics, 2021, 915, .  | 3.4 | 6         |
| 70 | Stability of gravity currents generated by finite-volume releases. Journal of Fluid Mechanics, 2006,<br>562, 261.   | 3.4 | 5         |
| 71 | Unsteady draining of reservoirs over weirs and through constrictions. Journal of Fluid Mechanics, 2020, 882, .  | 3.4 | 4         |
| 72 | Linear stability of shallow morphodynamic flows. Journal of Fluid Mechanics, 2021, 916, .   | 3.4 | 4         |

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|----|--|-----|-----------|
| 73 | Viscoplastic corner eddies. Journal of Fluid Mechanics, 2022, 941, .   | 3.4 | 4         |
| 74 | Reply to discussion of "On the transport of suspended sediment by a swash event on a plane beach―<br>[Coastal Engineering 52 (2005) 1–23]. Coastal Engineering, 2006, 53, 115-118. | 4.0 | 3         |
| 75 | Sustained axisymmetric intrusions in a rotating system. European Journal of Mechanics, B/Fluids, 2016, 56, 110-119.  | 2.5 | 3         |
| 76 | Modeling the Influence of a Variable Permeability Inclusion on Free‧urface Flow in an Inclined<br>Aquifer. Water Resources Research, 2021, 57, e2020WR029195.                      | 4.2 | 3         |
| 77 | Dam-break reflection. Quarterly Journal of Mechanics and Applied Mathematics, 2021, 74, 441-465.   | 1.3 | 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. Journal of Fluid Mechanics, 2017, 827, 67-120.   | 3.4 | 2         |
| 80 | Development of supercritical motion and internal jumps within lock-release radial currents and draining flows. Physical Review Fluids, 2021, 6, .                                  | 2.5 | 2         |
| 81 | General linear stability properties of monoclinal shallow waves. Physical Review Fluids, 2022, 7, .  | 2.5 | 2         |
| 82 | Unsteady turbulent line plumes. Journal of Fluid Mechanics, 2018, 856, 103-134.  | 3.4 | 1         |