David Pritchard

List of Publications by Year
in descending order

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Version: 2024-02-01

58	1,572	304602	315616
papers	citations	22 h-index	38 g-index

58	58	58	1269
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Lifetimes of Evaporating Sessile Droplets of Water Can Be Strongly Influenced by Thermal Effects. Fluids, 2021, 6, 141.	0.8	7
2	The Strong Influence of Thermal Effects on the Lifetime of an Evaporating Droplet. , 2021, , 105-109.		0
3	The shielding effect extends the lifetimes of two-dimensional sessile droplets. Journal of Engineering Mathematics, 2020, 120, 89-110.	0.6	16
4	Thixotropic pumping in a cylindrical pipe. Physical Review Fluids, 2020, 5, .	1.0	6
5	The formation of convolute lamination in mudâ€rich turbidites. Sedimentology, 2018, 65, 1800-1825.	1.6	20
6	The lifetimes of evaporating sessile droplets are significantly extended by strong thermal effects. Journal of Fluid Mechanics, 2018, 851, 231-244.	1.4	24
7	Theremin. Journal of Humanistic Mathematics, 2018, 8, 473-473.	0.1	0
8	Radial viscous fingering of hot asthenosphere within the Icelandic plume beneath the North Atlantic Ocean. Earth and Planetary Science Letters, 2017, 468, 51-61.	1.8	41
9	Thermosolutal convection in an evolving soluble porous medium. Journal of Fluid Mechanics, 2017, 832, 666-696.	1.4	0
10	Unsteady flow of a thixotropic fluid in a slowly varying pipe. Physics of Fluids, 2017, 29, .	1.6	12
11	Simple waves and shocks in a thin film of a perfectly soluble anti-surfactant solution. Journal of Engineering Mathematics, 2017, 107, 167-178.	0.6	5
12	Dynamic settling of particles in shear flows of shear-thinning fluids. Journal of Non-Newtonian Fluid Mechanics, 2016, 238, 158-169.	1.0	6
13	Flow of a thixotropic or antithixotropic fluid in a slowly varying channel: The weakly advective regime. Journal of Non-Newtonian Fluid Mechanics, 2016, 238, 140-157.	1.0	17
14	Fluid-dynamical model for antisurfactants. Physical Review E, 2016, 93, 043121.	0.8	11
15	Dynamic settling of particles in shear flows of shear-thinning fluids. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 83-94.	1.0	1
16	Anomaly of spontaneous transition to instability of liquidâ€“vapour front in a porous medium. International Journal of Heat and Mass Transfer, 2015, 84, 448-455.	2.5	13
17	Comment on Sochiâ€™s variational method for generalised Newtonian flow. Rheologica Acta, 2015, 54, 657-659.	1.1	1
18	Shallow flows of generalised Newtonian fluids on an inclined plane. Journal of Engineering Mathematics, 2015, 94, 115-133.	0.6	12

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19	The shear-driven Rayleigh problem for generalised Newtonian fluids. Journal of Non-Newtonian Fluid Mechanics, 2014, 206, 11-17.	1.0	11
20	Liquidâ€“vapour fronts in porous media: Multiplicity and stability of front positions. International Journal of Heat and Mass Transfer, 2013, 61, 1-17.	2.5	25
21	Sinking inside the box. Journal of Fluid Mechanics, 2013, 722, 1-4.	1.4	13
22	Effect of column base strength on steel portal frames in fire. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2013, 166, 197-216.	0.4	6
23	BEHAVIOR OF STEEL PORTAL FRAMES IN FIRE: COMPARISON OF IMPLICIT AND EXPLICIT DYNAMIC FINITE ELEMENT METHODS. International Journal of Structural Stability and Dynamics, 2013, 13, 1250058.	1.5	4
24	Polydisperse suspensions: Erosion, deposition, and flow capacity. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1939-1955.	1.0	28
25	The Stokes boundary layer for a thixotropic or antithixotropic fluid. Journal of Non-Newtonian Fluid Mechanics, 2012, 185-186, 18-38.	1.0	17
26	Overtopping a truncated planar beach. Journal of Fluid Mechanics, 2011, 666, 521-553.	1.4	15
27	Natural convection and the evolution of a reactive porous medium. Journal of Fluid Mechanics, 2011, 673, 286-317.	1.4	19
28	The Stokes boundary layer for a power-law fluid. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 745-753.	1.0	19
29	Patterns of deposition from experimental turbidity currents with reversing buoyancy. Sedimentology, 2010, 57, 53-84.	1.6	29
30	Where learning starts? A framework for thinking about lectures in university mathematics. International Journal of Mathematical Education in Science and Technology, 2010, 41, 609-623.	0.8	45
31	A two-layer diffusive model for describing the variability of transdermal drug permeation. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 74, 513-517.	2.0	8
32	Whatâ€™s right with lecturing?. MSOR Connections, 2010, 10, 3-6.	0.1	4
33	Simple estimates for the magnitude of bedload transport under a turbid surge. Sedimentology, 2009, 56, 893-910.	1.6	2
34	The linear stability of double-diffusive miscible rectilinear displacements in a Hele-Shaw cell. European Journal of Mechanics, B/Fluids, 2009, 28, 564-577.	1.2	53
35	Sediment transport under a swash event: the effect of boundary conditions. Coastal Engineering, 2009, 56, 970-981.	1.7	8
36	Reversing buoyancy in turbidity currents: developing a hypothesis for flow transformation and for deposit facies and architecture. Marine and Petroleum Geology, 2009, 26, 1997-2010.	1.5	24

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37	Uplift histories from river profiles. Geophysical Research Letters, 2009, 36, .	1.5	148
38	Modelling the sedimentary signature of long waves on coasts: implications for tsunami reconstruction. Sedimentary Geology, 2008, 206, 42-57.	1.0	20
39	Instability of the salinity profile during the evaporation of saline groundwater. Journal of Fluid Mechanics, 2008, 614, 87-104.	1.4	28
40	An analytical model for bore-driven run-up. Journal of Fluid Mechanics, 2008, 610, 183-193.	1.4	24
41	The near-shore behaviour of shallow-water waves with localized initial conditions. Journal of Fluid Mechanics, 2007, 591, 413-436.	1.4	20
42	Gravity currents over fractured substrates in a porous medium. Journal of Fluid Mechanics, 2007, 584, 415-431.	1.4	46
43	The effect of temperature-dependent solubility on the onset of thermosolutal convection in a horizontal porous layer. Journal of Fluid Mechanics, 2007, 571, 59-95.	1.4	54
44	Viscous fingering of a thixotropic fluid in a porous medium or a narrow fracture. Journal of Non-Newtonian Fluid Mechanics, 2006, 135, 117-127.	1.0	18
45	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
46	Rate of Deposition of Fine Sediment from Suspension. Journal of Hydraulic Engineering, 2006, 132, 533-536.	0.7	12
47	On the transport of suspended sediment by a swash event on a plane beach. Coastal Engineering, 2005, 52, 1-23.	1.7	103
48	Suspended sediment transport along an idealised tidal embayment: settling lag, residual transport and the interpretation of tidal signals. Ocean Dynamics, 2005, 55, 124-136.	0.9	30
49	On fine sediment transport by a flood surge. Journal of Fluid Mechanics, 2005, 543, 239.	1.4	11
50	The instability of thermal and fluid fronts during radial injection in a porous medium. Journal of Fluid Mechanics, 2004, 508, 133-163.	1.4	50
51	The effects of hydraulic resistance on dam-break and other shallow inertial flows. Journal of Fluid Mechanics, 2004, 501, 179-212.	1.4	148
52	Suspended sediment transport under seiches in circular and elliptical basins. Coastal Engineering, 2003, 49, 43-70.	1.7	11
53	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
54	Cross-shore sediment transport and the equilibrium morphology of mudflats under tidal currents. Journal of Geophysical Research, 2003, 108, .	3.3	81

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55	On sediment transport under dam-break flow. Journal of Fluid Mechanics, 2002, 473, 265-274.	1.4	40
56	Draining viscous gravity currents in a vertical fracture. Journal of Fluid Mechanics, 2002, 459, 207-216.	1.4	26
57	Morphological modelling of intertidal mudflats: the role of cross-shore tidal currents. Continental Shelf Research, 2002, 22, 1887-1895.	0.9	80
58	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