

Duncan Hewitt

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

771
citations

471509

17
h-index

526287

27
g-index

42
all docs

42
docs citations

42
times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	Convective shutdown in a porous medium at high Rayleigh number. <i>Journal of Fluid Mechanics</i> , 2013, 719, 551-586.	3.4	98
2	Ultimate Regime of High Rayleigh Number Convection in a Porous Medium. <i>Physical Review Letters</i> , 2012, 108, 224503.	7.8	81
3	High Rayleigh number convection in a three-dimensional porous medium. <i>Journal of Fluid Mechanics</i> , 2014, 748, 879-895.	3.4	61
4	The dynamics of miscible viscous fingering from onset to shutdown. <i>Journal of Fluid Mechanics</i> , 2018, 837, 520-545.	3.4	40
5	Viscoplastic slender-body theory. <i>Journal of Fluid Mechanics</i> , 2018, 856, 870-897.	3.4	38
6	Two-dimensional viscoplastic dambreaks. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 238, 65-79.	2.4	37
7	Taylor's swimming sheet in a yield-stress fluid. <i>Journal of Fluid Mechanics</i> , 2017, 828, 33-56.	3.4	36
8	Thixotropic gravity currents. <i>Journal of Fluid Mechanics</i> , 2013, 727, 56-82.	3.4	28
9	Flow-induced compaction of a deformable porous medium. <i>Physical Review E</i> , 2016, 93, 023116.	2.1	28
10	Viscoplastic boundary layers. <i>Journal of Fluid Mechanics</i> , 2017, 813, 929-954.	3.4	28
11	Stability of columnar convection in a porous medium. <i>Journal of Fluid Mechanics</i> , 2013, 737, 205-231.	3.4	27
12	Vigorous convection in porous media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200111.	2.1	24
13	Obstructed and channelized viscoplastic flow in a Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2016, 790, 173-204.	3.4	22
14	Imbibition with swelling: Capillary rise in thin deformable porous media. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	21
15	High Rayleigh number convection in a porous medium containing a thin low-permeability layer. <i>Journal of Fluid Mechanics</i> , 2014, 756, 844-869.	3.4	20
16	Tidal Grounding Line Migration Modulated by Subglacial Hydrology. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089088.	4.0	20
17	Stable and unstable miscible displacements in layered porous media. <i>Journal of Fluid Mechanics</i> , 2019, 869, 468-499.	3.4	19
18	Shallow, gravity-driven flow in a poro-elastic layer. <i>Journal of Fluid Mechanics</i> , 2015, 778, 335-360.	3.4	17

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19	Dewatering of fibre suspensions by pressure filtration. <i>Physics of Fluids</i> , 2016, 28, 063304.	4.0	17
20	Obstructed viscoplastic flow in a Hele-Shaw cell. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	13
21	Stability of three-dimensional columnar convection in a porous medium. <i>Journal of Fluid Mechanics</i> , 2017, 829, 89-111.	3.4	10
22	Internally Heated Porous Convection: An Idealized Model for Enceladus' Hydrothermal Activity. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006451.	3.6	10
23	The influence of a poroelastic till on rapid subglacial flooding and cavity formation. <i>Journal of Fluid Mechanics</i> , 2018, 855, 1170-1207.	3.4	9
24	High-Rayleigh-number convection in porous fluid layers. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	3.4	9
25	Flow-driven compaction of a fibrous porous medium. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	9
26	Building on Oldroyd's viscoplastic legacy: Perspectives and new developments. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021, 294, 104580.	2.4	8
27	Horizontal miscible displacements through porous media: the interplay between viscous fingering and gravity segregation. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	3.4	8
28	Buoyancy-driven plumes in a layered porous medium. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	6
29	Dewatering saturated, networked suspensions with a screw press. <i>Journal of Engineering Mathematics</i> , 2020, 120, 1-28.	1.2	5
30	The elastic Landau-Levich problem on a slope. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	5
31	Translating and squirming cylinders in a viscoplastic fluid. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	3.4	3
32	On two-phase modeling of dewatering pulp suspensions. <i>AIChE Journal</i> , 2021, 67, e17277.	3.6	3
33	Water flow through sediments and at the ice-sediment interface beneath Sermeq Kujalleq (Store) Tj ETQq1 1 0.784314 rgBT /Overloc	2.2	3
34	Evolution of convection in a layered porous medium. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	3.4	3
35	Locomotion with a wavy cylindrical filament in a yield-stress fluid. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	3.4	2
36	Mud swimming: Locomotion through a viscoplastic fluid. , 2022, 3, 100029.		1

#	ARTICLE	IF	CITATIONS
37	One-dimensional compression of a saturated elastoviscoplastic medium. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	1