

Jerome A Neufeld

List of Publications by Year in Descending Order

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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.

66 papers	1,482 citations	19 h-index	37 g-index
78 ext. papers	1,843 ext. citations	4 avg, IF	5.1 L-index

#	Paper	IF	Citations
66	Upscaling multiphase viscous-to-capillary transitions in heterogeneous porous media. <i>Journal of Fluid Mechanics</i> , 2021 , 911,	3.7	3
65	The Thermal Evolution of Planetesimals During Accretion and Differentiation: Consequences for Dynamo Generation by Thermally-Driven Convection. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006704	4.1	5
64	CO ₂ Dissolution Trapping Rates in Heterogeneous Porous Media. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087001	4.9	6
63	Dispersive entrainment into gravity currents in porous media. <i>Journal of Fluid Mechanics</i> , 2020 , 886,	3.7	3
62	Permeability measurements using oscillatory flows. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	
61	Deformation of an Elastic Beam on a Winkler Foundation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020 , 87,	2.7	2
60	The elastic Landau-Levich problem on a slope. <i>Journal of Fluid Mechanics</i> , 2020 , 883,	3.7	3
59	Heat Production and Tidally Driven Fluid Flow in the Permeable Core of Enceladus. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006209	4.1	9
58	Tidal Grounding-Line Migration Modulated by Subglacial Hydrology. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089088	4.9	8
57	Self-similar dynamics of two-phase flows injected into a confined porous layer. <i>Journal of Fluid Mechanics</i> , 2019 , 877, 882-921	3.7	3
56	Shock formation in two-layer equal-density viscous gravity currents. <i>Journal of Fluid Mechanics</i> , 2019 , 863, 730-756	3.7	4
55	Stable and unstable miscible displacements in layered porous media. <i>Journal of Fluid Mechanics</i> , 2019 , 869, 468-499	3.7	9
54	Controls on the geometry and evolution of thin-skinned fold-thrust belts, and applications to the Makran accretionary prism and Indo-Burman Ranges. <i>Geophysical Journal International</i> , 2019 , 218, 247-267	2.6	8
53	The top-down solidification of iron asteroids driving dynamo evolution. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 1331-1356	4.1	10
52	Constraints on asteroid magnetic field evolution and the radii of meteorite parent bodies from thermal modelling. <i>Earth and Planetary Science Letters</i> , 2019 , 521, 68-78	5.3	16
51	On the dynamics of a thin viscous film spreading between a permeable horizontal plate and an elastic sheet. <i>Journal of Fluid Mechanics</i> , 2018 , 841, 989-1011	3.7	1
50	The dynamics of miscible viscous fingering from onset to shutdown. <i>Journal of Fluid Mechanics</i> , 2018 , 837, 520-545	3.7	19

49	Flow of buoyant granular materials along a free surface. <i>Journal of Fluid Mechanics</i> , 2018 , 848, 312-339	3.7	2
48	Static and dynamic fluid-driven fracturing of adhered elastica. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	12
47	Microstructural evidence for crystallization regimes in mafic intrusions: a case study from the Little Minch Sill Complex, Scotland. <i>Contributions To Mineralogy and Petrology</i> , 2018 , 173, 97	3.5	4
46	The influence of a poroelastic till on rapid subglacial flooding and cavity formation. <i>Journal of Fluid Mechanics</i> , 2018 , 855, 1170-1207	3.7	7
45	The relaxation time for viscous and porous gravity currents following a change in flux. <i>Journal of Fluid Mechanics</i> , 2017 , 821, 330-342	3.7	4
44	Two-phase gravity currents resulting from the release of a fixed volume of fluid in a porous medium. <i>Journal of Fluid Mechanics</i> , 2017 , 832, 550-577	3.7	3
43	Crystal settling and convection in the Shiant Isles Main Sill. <i>Contributions To Mineralogy and Petrology</i> , 2017 , 172, 7	3.5	20
42	Orientation of Tabular Mafic Intrusions Controls Convective Vigour and Crystallization Style. <i>Journal of Petrology</i> , 2017 , 58, 2035-2053	3.9	4
41	Indentation of a floating elastic sheet: geometry versus applied tension. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20170335	2.4	10
40	Maximal liquid bridges between horizontal cylinders. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160233	2.4	3
39	Flow-induced compaction of a deformable porous medium. <i>Physical Review E</i> , 2016 , 93, 023116	2.4	19
38	An inverse method for estimating thickness and volume with time of a thin CO ₂ -filled layer at the Sleipner Field, North Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 5068-5085	3.6	11
37	Propagation of viscous currents on a porous substrate with finite capillary entry pressure. <i>Journal of Fluid Mechanics</i> , 2016 , 801, 65-90	3.7	3
36	Stratified gravity currents in porous media. <i>Journal of Fluid Mechanics</i> , 2016 , 791, 329-357	3.7	4
35	The feasibility of thermal and compositional convection in Earth's inner core. <i>Geophysical Journal International</i> , 2015 , 201, 764-782	2.6	7
34	Fluid invasion of an unsaturated leaky porous layer. <i>Journal of Fluid Mechanics</i> , 2015 , 777, 97-121	3.7	1
33	Shallow, gravity-driven flow in a poro-elastic layer. <i>Journal of Fluid Mechanics</i> , 2015 , 778, 335-360	3.7	11
32	Earth's inner core: Innermost inner core or hemispherical variations?. <i>Earth and Planetary Science Letters</i> , 2014 , 385, 181-189	5.3	36

31	The Fluid Mechanics of Carbon Dioxide Sequestration. <i>Annual Review of Fluid Mechanics</i> , 2014 , 46, 255-272	3.7	185
30	High Rayleigh number convection in a three-dimensional porous medium. <i>Journal of Fluid Mechanics</i> , 2014 , 748, 879-895	3.7	47
29	Fluid injection into a confined porous layer. <i>Journal of Fluid Mechanics</i> , 2014 , 745, 592-620	3.7	35
28	Fluid migration between confined aquifers. <i>Journal of Fluid Mechanics</i> , 2014 , 757, 330-353	3.7	8
27	High Rayleigh number convection in a porous medium containing a thin low-permeability layer. <i>Journal of Fluid Mechanics</i> , 2014 , 756, 844-869	3.7	10
26	Viscous control of peeling an elastic sheet by bending and pulling. <i>Physical Review Letters</i> , 2013 , 111, 154501	7.4	72
25	Stability of columnar convection in a porous medium. <i>Journal of Fluid Mechanics</i> , 2013 , 737, 205-231	3.7	20
24	The competition between gravity and flow focusing in two-layered porous media. <i>Journal of Fluid Mechanics</i> , 2013 , 720, 5-14	3.7	15
23	Convective shutdown in a porous medium at high Rayleigh number. <i>Journal of Fluid Mechanics</i> , 2013 , 719, 551-586	3.7	74
22	Topographic controls on gravity currents in porous media. <i>Journal of Fluid Mechanics</i> , 2013 , 734, 317-337	3.7	7
21	The effects of capillary forces on the axisymmetric propagation of two-phase, constant-flux gravity currents in porous media. <i>Physics of Fluids</i> , 2013 , 25, 036602	4.4	33
20	Interface pinning of immiscible gravity-exchange flows in porous media. <i>Physical Review E</i> , 2013 , 87, 023015	3.7	17
19	Spatial and temporal evolution of injected CO ₂ at the Sleipner Field, North Sea. <i>Journal of Geophysical Research</i> , 2012 , 117,		76
18	Ultimate regime of high Rayleigh number convection in a porous medium. <i>Physical Review Letters</i> , 2012 , 108, 224503	7.4	60
17	Spreading and convective dissolution of carbon dioxide in vertically confined, horizontal aquifers. <i>Water Resources Research</i> , 2012 , 48,	5.4	65
16	Two-phase gravity currents in porous media. <i>Journal of Fluid Mechanics</i> , 2011 , 678, 248-270	3.7	63
15	Leakage from gravity currents in a porous medium. Part 1. A localized sink. <i>Journal of Fluid Mechanics</i> , 2011 , 666, 391-413	3.7	26
14	Leakage from gravity currents in a porous medium. Part 2. A line sink. <i>Journal of Fluid Mechanics</i> , 2011 , 666, 414-427	3.7	20

13	Leakage from inclined porous reservoirs. <i>Journal of Fluid Mechanics</i> , 2011 , 673, 395-405	3.7	5
12	Shear flow, phase change and matched asymptotic expansions: Pattern formation in mushy layers. <i>Physica D: Nonlinear Phenomena</i> , 2011 , 240, 140-149	3.3	6
11	Convective dissolution of carbon dioxide in saline aquifers. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	216
10	On the mechanisms of icicle evolution. <i>Journal of Fluid Mechanics</i> , 2010 , 647, 287-308	3.7	12
9	Application of gravity currents to the migration of CO ₂ in heterogeneous saline formations. <i>Energy Procedia</i> , 2009 , 1, 3331-3338	2.3	2
8	Axisymmetric viscous gravity currents flowing over a porous medium. <i>Journal of Fluid Mechanics</i> , 2009 , 622, 135-144	3.7	17
7	Modelling carbon dioxide sequestration in layered strata. <i>Journal of Fluid Mechanics</i> , 2009 , 625, 353-370	3.7	47
6	The effect of a fissure on storage in a porous medium. <i>Journal of Fluid Mechanics</i> , 2009 , 639, 239-259	3.7	35
5	Shear-enhanced convection in a mushy layer. <i>Journal of Fluid Mechanics</i> , 2008 , 612, 339-361	3.7	13
4	An experimental study of shear-enhanced convection in a mushy layer. <i>Journal of Fluid Mechanics</i> , 2008 , 612, 363-385	3.7	13
3	Flow-induced morphological instability of a mushy layer - CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2006 , 549, 442	3.7	7
2	Two-phase gravity currents in porous media		1
1	Water flow through sediments and at the ice-sediment interface beneath Sermeq Kujalleq (Store Glacier), Greenland. <i>Journal of Glaciology</i> , 1-20	3.4	1