

# Michael C Dallaston

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1913478/publications.pdf>

Version: 2024-02-01

22  
papers

196  
citations

933447

10  
h-index

1058476

14  
g-index

22  
all docs

22  
docs citations

22  
times ranked

192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bubble extinction in Hele-Shaw flow with surface tension and kinetic undercooling regularization. <i>Nonlinearity</i> , 2013, 26, 1639-1665.	1.4	28
2	Healing capillary films. <i>Journal of Fluid Mechanics</i> , 2018, 838, 404-434.	3.4	23
3	Channelization of plumes beneath ice shelves. <i>Journal of Fluid Mechanics</i> , 2015, 785, 109-134.	3.4	17
4	Discrete Self-Similarity in Interfacial Hydrodynamics and the Formation of Iterated Structures. <i>Physical Review Letters</i> , 2018, 120, 034505.	7.8	17
5	New exact solutions for Hele-Shaw flow in doubly connected regions. <i>Physics of Fluids</i> , 2012, 24, 052101.	4.0	13
6	A curve shortening flow rule for closed embedded plane curves with a prescribed rate of change in enclosed area. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150629.	2.1	13
7	Accurate series solutions for gravity-driven Stokes waves. <i>Physics of Fluids</i> , 2010, 22, .	4.0	12
8	Self-similar finite-time singularity formation in degenerate parabolic equations arising in thin-film flows. <i>Nonlinearity</i> , 2017, 30, 2647-2666.	1.4	12
9	Corner and finger formation in Hele-Shaw flow with kinetic undercooling regularisation. <i>European Journal of Applied Mathematics</i> , 2014, 25, 707-727.	2.9	10
10	Saffman-Taylor fingers with kinetic undercooling. <i>Physical Review E</i> , 2015, 91, 023016.	2.1	10
11	Robust low-dimensional modelling of falling liquid films subject to variable wall heating. <i>Journal of Fluid Mechanics</i> , 2019, 877, 844-881.	3.4	8
12	A REVIEW OF ONE-PHASE HELE-SHAW FLOWS AND A LEVEL-SET METHOD FOR NONSTANDARD CONFIGURATIONS. <i>ANZIAM Journal</i> , 2021, 63, 269-307.	0.2	7
13	Free-boundary models of a meltwater conduit. <i>Physics of Fluids</i> , 2014, 26, 083101.	4.0	6
14	Dynamics of a thin film flowing down a heated wall with finite thermal diffusivity. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	6
15	Stability of similarity solutions of viscous thread pinch-off. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	3
16	A review of one-phase Hele-Shaw flows and a level-set method for nonstandard configurations. <i>ANZIAM Journal</i> , 0, 63, 269-307.	0.0	3
17	Onset of convective instability in an inclined porous medium. <i>Physics of Fluids</i> , 2022, 34, 014104.	4.0	3
18	Interfacial dynamics and pinch-off singularities for axially symmetric Darcy flow. <i>Physical Review E</i> , 2019, 100, 053109.	2.1	2

#	ARTICLE	IF	CITATIONS
19	Onset of transient convection in a porous medium with an embedded low-permeability layer. International Journal of Greenhouse Gas Control, 2021, 112, 103490.	4.6	2
20	Spatiotemporal evolution of evaporating liquid films sheared by a gas. Physical Review Fluids, 2021, 6, .	2.5	1
21	Matched asymptotic analysis of self-similar blow-up profiles of the thin film equation. Quarterly Journal of Mechanics and Applied Mathematics, 2019, 72, 179-195.	1.3	0
22	Flow of non-Newtonian fluids in open channels. ANZIAM Journal, 0, 56, 117.	0.0	0