

Nicholas McDonald

List of Publications by Year in descending order

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29
papers

205
citations

1162889

8
h-index

1125617

13
g-index

29
all docs

29
docs citations

29
times ranked

104
citing authors

#	ARTICLE	IF	CITATIONS
1	The fundamental solutions of the curve shortening problem via the Schwarz function. <i>Complex Analysis and Its Synergies</i> , 2022, 8, 1.	0.1	0
2	Fingering instability in wildfire fronts. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	1.4	2
3	Finger Growth and Selection in a Poisson Field. <i>Journal of Statistical Physics</i> , 2020, 178, 763-774.	0.5	3
4	Application of the Schwarz-Christoffel map to the Laplacian growth of needles and fingers. <i>Physical Review E</i> , 2020, 101, 013101.	0.8	1
5	Geodesic Loewner paths with varying boundary conditions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200466.	1.0	1
6	Potential Vorticity Dynamics of Coastal Outflows. <i>Journal of Physical Oceanography</i> , 2017, 47, 1021-1041.	0.7	6
7	A free-boundary model of diffusive valley growth: theory and observation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170159.	1.0	2
8	The long-wave vorticity dynamics of rotating buoyant outflows. <i>Journal of Fluid Mechanics</i> , 2017, 822, 418-443.	1.4	5
9	New families of vortex patch equilibria for the two-dimensional Euler equations. <i>Physics of Fluids</i> , 2017, 29, .	1.6	11
10	Beach vortices near circular topography. <i>Physics of Fluids</i> , 2016, 28, .	1.6	4
11	A Simple Model for Sheddies: Ocean Eddies Formed from Shed Vorticity. <i>Journal of Physical Oceanography</i> , 2016, 46, 2961-2979.	0.7	14
12	On the motion of unsteady translating bubbles in an unbounded Hele-Shaw cell. <i>Physics of Fluids</i> , 2015, 27, .	1.6	7
13	A point vortex model for the formation of ocean eddies by flow separation. <i>Physics of Fluids</i> , 2015, 27, .	1.6	13
14	Poisson growth. <i>Analysis and Mathematical Physics</i> , 2015, 5, 193-205.	0.6	5
15	Hele-Shaw flow driven by an electric field. <i>European Journal of Applied Mathematics</i> , 2014, 25, 425-447.	1.4	2
16	Finite Rossby radius effects on vortex motion near a gap. <i>Physics of Fluids</i> , 2012, 24, .	1.6	6
17	Generalised Hele-Shaw flow: A Schwarz function approach. <i>European Journal of Applied Mathematics</i> , 2011, 22, 517-532.	1.4	11
18	Gap-Leaping Vortical Currents. <i>Journal of Physical Oceanography</i> , 2009, 39, 2665-2674.	0.7	3

#	ARTICLE	IF	CITATIONS
19	Necking in coating flow over periodic substrates. Journal of Engineering Mathematics, 2009, 65, 171-178.	0.6	4
20	Laboratory study of vortex dipoles interacting with step topography. Journal of Geophysical Research, 2009, 114, .	3.3	3
21	Interactions of two vortices near step topography. Physics of Fluids, 2007, 19, .	1.6	1
22	Vortex scattering by step topography. Journal of Fluid Mechanics, 2007, 571, 495-505.	1.4	10
23	Vortex-Wave Interaction on a Sphere. , 2007, , 387-390.		0
24	Vortical source-sink flow against a wall: The initial value problem and exact steady states. Physics of Fluids, 2006, 18, 076601.	1.6	12
25	Steadily translating vortices near step topography. Physics of Fluids, 2005, 17, 056601.	1.6	7
26	Vortices near barriers with multiple gaps. Journal of Fluid Mechanics, 2005, 531, 335-358.	1.4	32
27	The point island approximation in vortex dynamics. Geophysical and Astrophysical Fluid Dynamics, 2005, 99, 49-60.	0.4	14
28	Surf-zone vortices over stepped topography. Journal of Fluid Mechanics, 2004, 511, 265-283.	1.4	6
29	The motion of a singular vortex near an escarpment. Journal of Fluid Mechanics, 2001, 448, 335-365.	1.4	20