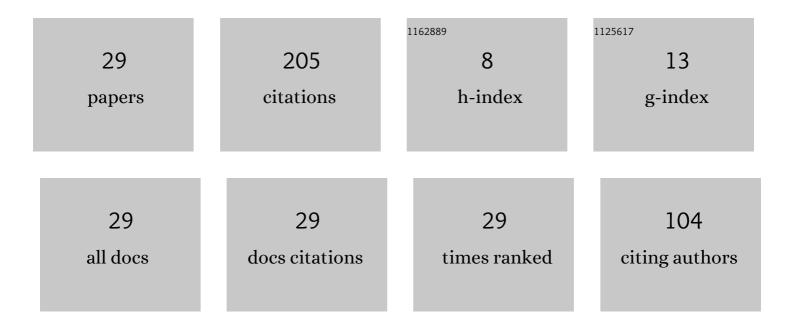
## Nicholas McDonald

List of Publications by Year in descending order

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NICHOLAS MCDONALD

#	Article	IF	CITATIONS
1	Vortices near barriers with multiple gaps. Journal of Fluid Mechanics, 2005, 531, 335-358.	1.4	32
2	The motion of a singular vortex near an escarpment. Journal of Fluid Mechanics, 2001, 448, 335-365.	1.4	20
3	The point island approximation in vortex dynamics. Geophysical and Astrophysical Fluid Dynamics, 2005, 99, 49-60.	0.4	14
4	A Simple Model for Sheddies: Ocean Eddies Formed from Shed Vorticity. Journal of Physical Oceanography, 2016, 46, 2961-2979.	0.7	14
5	A point vortex model for the formation of ocean eddies by flow separation. Physics of Fluids, 2015, 27, .	1.6	13
6	Vortical source-sink flow against a wall: The initial value problem and exact steady states. Physics of Fluids, 2006, 18, 076601.	1.6	12
7	Generalised Hele-Shaw flow: A Schwarz function approach. European Journal of Applied Mathematics, 2011, 22, 517-532.	1.4	11
8	New families of vortex patch equilibria for the two-dimensional Euler equations. Physics of Fluids, 2017, 29, .	1.6	11
9	Vortex scattering by step topography. Journal of Fluid Mechanics, 2007, 571, 495-505.	1.4	10
10	Steadily translating vortices near step topography. Physics of Fluids, 2005, 17, 056601.	1.6	7
11	On the motion of unsteady translating bubbles in an unbounded Hele-Shaw cell. Physics of Fluids, 2015, 27, .	1.6	7
12	Surf-zone vortices over stepped topography. Journal of Fluid Mechanics, 2004, 511, 265-283.	1.4	6
13	Finite Rossby radius effects on vortex motion near a gap. Physics of Fluids, 2012, 24, .	1.6	6
14	Potential Vorticity Dynamics of Coastal Outflows. Journal of Physical Oceanography, 2017, 47, 1021-1041.	0.7	6
15	Poisson growth. Analysis and Mathematical Physics, 2015, 5, 193-205.	0.6	5
16	The long-wave vorticity dynamics of rotating buoyant outflows. Journal of Fluid Mechanics, 2017, 822, 418-443.	1.4	5
17	Necking in coating flow over periodic substrates. Journal of Engineering Mathematics, 2009, 65, 171-178.	0.6	4
18	Beach vortices near circular topography. Physics of Fluids, 2016, 28, .	1.6	4

NICHOLAS MCDONALD

#	Article	IF	CITATIONS
19	Gap-Leaping Vortical Currents. Journal of Physical Oceanography, 2009, 39, 2665-2674.	0.7	3
20	Laboratory study of vortex dipoles interacting with step topography. Journal of Geophysical Research, 2009, 114, .	3.3	3
21	Finger Growth and Selection in a Poisson Field. Journal of Statistical Physics, 2020, 178, 763-774.	0.5	3
22	Hele-Shaw flow driven by an electric field. European Journal of Applied Mathematics, 2014, 25, 425-447.	1.4	2
23	A free-boundary model of diffusive valley growth: theory and observation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170159.	1.0	2
24	Fingering instability in wildfire fronts. Journal of Fluid Mechanics, 2022, 943, .	1.4	2
25	Interactions of two vortices near step topography. Physics of Fluids, 2007, 19, .	1.6	1
26	Application of the Schwarz-Christoffel map to the Laplacian growth of needles and fingers. Physical Review E, 2020, 101, 013101.	0.8	1
27	Geodesic Loewner paths with varying boundary conditions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200466.	1.0	1
28	Vortex-Wave Interaction on a Sphere. , 2007, , 387-390.		0
29	The fundamental solutions of the curve shortening problem via the Schwarz function. Complex Analysis and Its Synergies, 2022, 8, 1.	0.1	0