Magda Carr

List of Publications by Year
in descending order

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29	789	471509	501196
papers	citations	17 h-index	28 g-index

32	32	32	384
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stratification effects on shoaling internal solitary waves. Journal of Fluid Mechanics, 2022, 933, .	3.4	8
2	Laboratory Experiments on Internal Solitary Waves in Iceâ€Covered Waters. Geophysical Research Letters, 2019, 46, 12230-12238.	4.0	13
3	Shoaling mode-2 internal solitary-like waves. Journal of Fluid Mechanics, 2019, 879, 604-632.	3.4	18
4	Wave generation through the interaction of a mode-2 internal solitary wave and a broad, isolated ridge. Physical Review Fluids, 2019, 4, .	2.5	12
5	Blockage of saline intrusions in restricted, two-layer exchange flows across a submerged sill obstruction. Environmental Fluid Mechanics, 2018, 18, 27-57.	1.6	7
6	The characteristics of billows generated by internal solitary waves. Journal of Fluid Mechanics, 2017, 812, 541-577.	3.4	18
7	Interaction of a mode-2 internal solitary wave with narrow isolated topography. Physics of Fluids, 2017, 29, .	4.0	30
8	Experiments on the structure and stability of mode-2 internal solitary-like waves propagating on an offset pycnocline. Physics of Fluids, 2015, 27, .	4.0	37
9	Stabilising solar ponds by utilising porous materials. Advances in Water Resources, 2013, 60, 1-6.	3.8	23
10	The influence of a fluid-porous interface on solar pond stability. Advances in Water Resources, 2013, 52, 1-6.	3.8	15
11	Instability in internal solitary waves with trapped cores. Physics of Fluids, 2012, 24, .	4.0	15
12	The steady-state form of large-amplitude internal solitary waves. Journal of Fluid Mechanics, 2011, 666, 477-505.	3.4	21
13	Numerical simulation of shear-induced instabilities in internal solitary waves. Journal of Fluid Mechanics, 2011, 683, 263-288.	3.4	20
14	Numerical simulation of internal solitary waveâ€"induced reverse flow and associated vortices in a shallow, two-layer fluid benthic boundary layer. Ocean Dynamics, 2011, 61, 857-872.	2.2	8
15	Internal solitary wave-induced flow over a corrugated bed. Ocean Dynamics, 2010, 60, 1007-1025.	2.2	16
16	Nonlinear stability of the one-domain approach to modelling convection in superposed fluid and porous layers. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 2695-2705.	2.1	22
17	Sharp global nonlinear stability for a fluid overlying a highly porous material. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 127-140.	2.1	18
18	Boundary layer flow beneath an internal solitary wave of elevation. Physics of Fluids, 2010, 22, 026601.	4.0	21

#	Article	IF	Citations
19	Shear-induced breaking of large internal solitary waves. Journal of Fluid Mechanics, 2009, 620, 1-29.	3.4	71
20	Convectively induced shear instability in large amplitude internal solitary waves. Physics of Fluids, 2008, 20, .	4.0	37
21	Experimental evidence of internal solitary wave-induced global instability in shallow water benthic boundary layers. Physics of Fluids, 2008, 20, .	4.0	40
22	Simultaneous synthetic schlieren and PIV measurements for internal solitary waves. Measurement Science and Technology, 2007, 18, 533-547.	2.6	68
23	Linear stability of natural convection in superposed fluid and porous layers: Influence of the interfacial modelling. International Journal of Heat and Mass Transfer, 2007, 50, 1356-1367.	4.8	53
24	The motion of an internal solitary wave of depression over a fixed bottom boundary in a shallow, two-layer fluid. Physics of Fluids, 2006, 18, 016601.	4.0	45
25	Penetrative convection in a superposed porous-mediumfluid layer via internal heating. Journal of Fluid Mechanics, 2004, 509, 305-329.	3.4	58
26	Penetrative convection in a horizontally isotropic porous layer. Continuum Mechanics and Thermodynamics, 2003, 15, 33-43.	2.2	30
27	A model for convection in the evolution of under-ice melt ponds. Continuum Mechanics and Thermodynamics, 2003, 15, 45-54.	2.2	11
28	Penetrative convection in a fluid overlying a porous layer. Advances in Water Resources, 2003, 26, 263-276.	3.8	46
29	UNCONDITIONAL NONLINEAR STABILITY FOR TEMPERATURE-DEPENDENT DENSITY FLOW IN A POROUS MEDIUM. Mathematical Models and Methods in Applied Sciences, 2003, 13, 207-220.	3.3	8