

Magda Carr

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

789
citations

471509

17
h-index

501196

28
g-index

32
all docs

32
docs citations

32
times ranked

384
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-induced breaking of large internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2009, 620, 1-29.	3.4	71
2	Simultaneous synthetic schlieren and PIV measurements for internal solitary waves. <i>Measurement Science and Technology</i> , 2007, 18, 533-547.	2.6	68
3	Penetrative convection in a superposed porous-medium fluid layer via internal heating. <i>Journal of Fluid Mechanics</i> , 2004, 509, 305-329.	3.4	58
4	Linear stability of natural convection in superposed fluid and porous layers: Influence of the interfacial modelling. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1356-1367.	4.8	53
5	Penetrative convection in a fluid overlying a porous layer. <i>Advances in Water Resources</i> , 2003, 26, 263-276.	3.8	46
6	The motion of an internal solitary wave of depression over a fixed bottom boundary in a shallow, two-layer fluid. <i>Physics of Fluids</i> , 2006, 18, 016601.	4.0	45
7	Experimental evidence of internal solitary wave-induced global instability in shallow water benthic boundary layers. <i>Physics of Fluids</i> , 2008, 20, .	4.0	40
8	Convectively induced shear instability in large amplitude internal solitary waves. <i>Physics of Fluids</i> , 2008, 20, .	4.0	37
9	Experiments on the structure and stability of mode-2 internal solitary-like waves propagating on an offset pycnocline. <i>Physics of Fluids</i> , 2015, 27, .	4.0	37
10	Penetrative convection in a horizontally isotropic porous layer. <i>Continuum Mechanics and Thermodynamics</i> , 2003, 15, 33-43.	2.2	30
11	Interaction of a mode-2 internal solitary wave with narrow isolated topography. <i>Physics of Fluids</i> , 2017, 29, .	4.0	30
12	Stabilising solar ponds by utilising porous materials. <i>Advances in Water Resources</i> , 2013, 60, 1-6.	3.8	23
13	Nonlinear stability of the one-domain approach to modelling convection in superposed fluid and porous layers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 2695-2705.	2.1	22
14	Boundary layer flow beneath an internal solitary wave of elevation. <i>Physics of Fluids</i> , 2010, 22, 026601.	4.0	21
15	The steady-state form of large-amplitude internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2011, 666, 477-505.	3.4	21
16	Numerical simulation of shear-induced instabilities in internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2011, 683, 263-288.	3.4	20
17	Sharp global nonlinear stability for a fluid overlying a highly porous material. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 127-140.	2.1	18
18	The characteristics of billows generated by internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2017, 812, 541-577.	3.4	18

#	ARTICLE	IF	CITATIONS
19	Shoaling mode-2 internal solitary-like waves. <i>Journal of Fluid Mechanics</i> , 2019, 879, 604-632.	3.4	18
20	Internal solitary wave-induced flow over a corrugated bed. <i>Ocean Dynamics</i> , 2010, 60, 1007-1025.	2.2	16
21	Instability in internal solitary waves with trapped cores. <i>Physics of Fluids</i> , 2012, 24, .	4.0	15
22	The influence of a fluid-porous interface on solar pond stability. <i>Advances in Water Resources</i> , 2013, 52, 1-6.	3.8	15
23	Laboratory Experiments on Internal Solitary Waves in Iceâ€Covered Waters. <i>Geophysical Research Letters</i> , 2019, 46, 12230-12238.	4.0	13
24	Wave generation through the interaction of a mode-2 internal solitary wave and a broad, isolated ridge. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	12
25	A model for convection in the evolution of under-ice melt ponds. <i>Continuum Mechanics and Thermodynamics</i> , 2003, 15, 45-54.	2.2	11
26	UNCONDITIONAL NONLINEAR STABILITY FOR TEMPERATURE-DEPENDENT DENSITY FLOW IN A POROUS MEDIUM. <i>Mathematical Models and Methods in Applied Sciences</i> , 2003, 13, 207-220.	3.3	8
27	Numerical simulation of internal solitary waveâ€induced reverse flow and associated vortices in a shallow, two-layer fluid benthic boundary layer. <i>Ocean Dynamics</i> , 2011, 61, 857-872.	2.2	8
28	Stratification effects on shoaling internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	8
29	Blockage of saline intrusions in restricted, two-layer exchange flows across a submerged sill obstruction. <i>Environmental Fluid Mechanics</i> , 2018, 18, 27-57.	1.6	7