

Per Aage Madsen

List of Publications by Year in descending order

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70
papers

5,184
citations

117625

34
h-index

138484

58
g-index

71
all docs

71
docs citations

71
times ranked

1533
citing authors

#	ARTICLE	IF	CITATIONS
1	A new fast transform based Fourier-Legendre-Galerkin model for nonlinear water waves. International Journal for Numerical Methods in Fluids, 2021, 93, 220-248.	1.6	3
2	On the statistical properties of surface elevation, velocities and accelerations in multi-directional irregular water waves. Journal of Fluid Mechanics, 2021, 910, .	3.4	8
3	Simulation of three-dimensional nonlinear water waves using a pseudospectral volumetric method with an artificial boundary condition. International Journal for Numerical Methods in Fluids, 2021, 93, 1843-1870.	1.6	7
4	On the statistical properties of inertia and drag forces in nonlinear multi-directional irregular water waves. Journal of Fluid Mechanics, 2021, 916, .	3.4	6
5	Mean and variance of the Eulerian and Lagrangian horizontal velocities induced by nonlinear multi-directional irregular water waves. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	0
6	Trough instabilities in Boussinesq formulations for water waves. Journal of Fluid Mechanics, 2020, 889, .	3.4	7
7	On the accuracy and applicability of a new implicit Taylor method and the high-order spectral method on steady nonlinear waves. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200436.	2.1	3
8	Uniform asymptotic approximations for transient waves due to an initial disturbance. Journal of Geophysical Research: Oceans, 2016, 121, 60-84.	2.6	1
9	Third-order theory for multi-directional irregular waves. Journal of Fluid Mechanics, 2012, 698, 304-334.	3.4	48
10	Transient waves generated by a moving bottom obstacle: a new near-field solution. Journal of Fluid Mechanics, 2012, 697, 237-272.	3.4	4
11	On the evolution and run-up of tsunamis. Journal of Hydrodynamics, 2010, 22, 1-6.	3.2	10
12	HIGH-ORDER BOUSSINESQ-TYPE MODELLING OF NONLINEAR WAVE PHENOMENA IN DEEP AND SHALLOW WATER. Series on Quality, Reliability and Engineering Statistics, 2010, , 245-285.	0.2	8
13	Analytical solutions for tsunami runup on a plane beach: single waves, N -waves and transient waves. Journal of Fluid Mechanics, 2010, 645, 27-57.	3.4	138
14	Tsunami generation, propagation, and run-up with a high-order Boussinesq model. Coastal Engineering, 2009, 56, 747-758.	4.0	92
15	Velocity potential formulations of highly accurate Boussinesq-type models. Coastal Engineering, 2009, 56, 467-478.	4.0	43
16	A CRITICAL DISCUSSION OF THE SOLITARY WAVE PARADIGM FOR TSUNAMIS. , 2009, , .		2
17	IMPROVED VELOCITY POTENTIAL FORMULATIONS OF HIGHLY ACCURATE BOUSSINESQ-TYPE MODELS. , 2009, , .		0
18	Simulation of nonlinear wave run-up with a high-order Boussinesq model. Coastal Engineering, 2008, 55, 139-154.	4.0	71

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19	Run-up of tsunamis and long waves in terms of surf-similarity. Coastal Engineering, 2008, 55, 209-223.	4.0	90
20	Surf Similarity and Solitary Wave Runup. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 195-198.	1.2	30
21	On the solitary wave paradigm for tsunamis. Journal of Geophysical Research, 2008, 113, .	3.3	278
22	NUMERICAL SIMULATION OF EXTREME EVENTS FROM FOCUSED DIRECTIONALLY SPREAD WAVEFIELDS. , 2007, , .		0
23	Nodal DG-FEM solution of high-order Boussinesq-type equations. Journal of Engineering Mathematics, 2007, 56, 351-370.	1.2	48
24	Analytical and numerical models for tsunami run-up. , 2007, , 209-236.		3
25	Numerical simulation of lowest-order short-crested wave instabilities. Journal of Fluid Mechanics, 2006, 563, 415.	3.4	53
26	Short-crested waves in deep water: a numerical investigation of recent laboratory experiments. Journal of Fluid Mechanics, 2006, 559, 391.	3.4	24
27	Third-order theory for bichromatic bi-directional water waves. Journal of Fluid Mechanics, 2006, 557, 369.	3.4	52
28	<title>Bichromatic water waves in finite depth</title>. , 2006, 5975, 352.		0
29	On truncated Taylor series and the position of their spurious zeros. Applied Numerical Mathematics, 2006, 56, 91-104.	2.1	8
30	A discussion of artificial compressibility. Coastal Engineering, 2006, 53, 93-98.	4.0	45
31	A Boussinesq-type method for fully nonlinear waves interacting with a rapidly varying bathymetry. Coastal Engineering, 2006, 53, 487-504.	4.0	129
32	Wave transformation models with exact second-order transfer. European Journal of Mechanics, B/Fluids, 2005, 24, 659-682.	2.5	23
33	Numerical simulation of tidal bores and hydraulic jumps. Coastal Engineering, 2005, 52, 409-433.	4.0	44
34	Nonlinear wave-structure interactions with a high-order Boussinesq model. Coastal Engineering, 2005, 52, 655-672.	4.0	28
35	Potential dominance of oscillating crescent waves in finite width tanks. Physics of Fluids, 2005, 17, 038102.	4.0	1
36	COMPUTATION OF NONLINEAR WATER WAVES WITH A HIGH-ORDER BOUSSINESQ MODEL. , 2005, , .		0

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37	Linear and non-linear stability analysis for finite difference discretizations of high-order Boussinesq equations. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 45, 751-773.	1.6	15
38	Boussinesq evolution equations: numerical efficiency, breaking and amplitude dispersion. <i>Coastal Engineering</i> , 2004, 51, 1117-1142.	4.0	25
39	A numerical study of crescent waves. <i>Journal of Fluid Mechanics</i> , 2004, 513, 309-341.	3.4	39
40	Boussinesq-type formulations for fully nonlinear and extremely dispersive water waves: derivation and analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 1075-1104.	2.1	173
41	Accuracy and convergence of velocity formulations for water waves in the framework of Boussinesq theory. <i>Journal of Fluid Mechanics</i> , 2003, 477, .	3.4	34
42	A new Boussinesq method for fully nonlinear waves from shallow to deep water. <i>Journal of Fluid Mechanics</i> , 2002, 462, 1-30.	3.4	290
43	On the Accuracy of Boussinesq Evolution Equations. , 2001, , 162.		2
44	A New Formulation of Deterministic and Stochastic Evolution Equations for Three-Wave Interactions Involving Fully Dispersive Waves. , 1999, , 161.		0
45	Nearshore Wave Dynamics Simulated by Boussinesq Type Models. , 1999, , 272.		2
46	A REVIEW OF BOUSSINESQ-TYPE EQUATIONS FOR SURFACE GRAVITY WAVES. <i>Series on Quality, Reliability and Engineering Statistics</i> , 1999, , 1-94.	0.2	67
47	A new approach to high-order Boussinesq models. <i>Journal of Fluid Mechanics</i> , 1999, 399, 319-333.	3.4	138
48	Current Effects on Nonlinear Interactions of Shallow-Water Waves. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999, 125, 176-186.	1.2	32
49	Deterministic and stochastic evolution equations for fully dispersive and weakly nonlinear waves. <i>Coastal Engineering</i> , 1999, 38, 1-24.	4.0	47
50	Wave-current interaction based on an enhanced Boussinesq approach. <i>Coastal Engineering</i> , 1998, 33, 11-39.	4.0	69
51	Surf zone dynamics simulated by a Boussinesq type model. III. Wave-induced horizontal nearshore circulations. <i>Coastal Engineering</i> , 1998, 33, 155-176.	4.0	69
52	Higher-order Boussinesq-type equations for surface gravity waves: derivation and analysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998, 356, 3123-3181.	3.4	256
53	Boussinesq Equations with Improved Doppler Shift and Dispersion for Wave/Current Interaction. , 1997, , 1060.		2
54	Surf zone dynamics simulated by a Boussinesq type model. Part I. Model description and cross-shore motion of regular waves. <i>Coastal Engineering</i> , 1997, 32, 255-287.	4.0	279

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55	Surf zone dynamics simulated by a Boussinesq type model. Part II: surf beat and swash oscillations for wave groups and irregular waves. Coastal Engineering, 1997, 32, 289-319.	4.0	114
56	Nonlinear wave dynamics in shallow water. Physica Scripta, 1996, T67, 86-89.	2.5	1
57	Further enhancements of Boussinesq-type equations. Coastal Engineering, 1995, 26, 1-14.	4.0	118
58	Wave Breaking and Induced Nearshore Circulations. , 1995, , .		2
59	Wave transformation in the nearshore zone: A review. Coastal Engineering, 1993, 21, 5-39.	4.0	44
60	Bound waves and triad interactions in shallow water. Ocean Engineering, 1993, 20, 359-388.	4.3	140
61	A Boussinesq model for waves breaking in shallow water. Coastal Engineering, 1993, 20, 185-202.	4.0	302
62	Nonlinear Transformation of Irregular Waves in Shallow Water. , 1993, , 460.		0
63	A new form of the Boussinesq equations with improved linear dispersion characteristics. Part 2. A slowly-varying bathymetry. Coastal Engineering, 1992, 18, 183-204.	4.0	629
64	A new form of the Boussinesq equations with improved linear dispersion characteristics. Coastal Engineering, 1991, 15, 371-388.	4.0	523
65	An efficient finite-difference approach to the mild-slope equation. Coastal Engineering, 1987, 11, 329-351.	4.0	80
66	Performance of a numerical short-wave model. Coastal Engineering, 1984, 8, 73-93.	4.0	35
67	A turbulent bore on a beach. Journal of Fluid Mechanics, 1984, 148, 73-96.	3.4	99
68	Wave reflection from a vertical permeable wave absorber. Coastal Engineering, 1983, 7, 381-396.	4.0	114
69	Turbulent bores and hydraulic jumps. Journal of Fluid Mechanics, 1983, 129, 1.	3.4	128
70	The dynamics of wave induced ship motions in shallow water. Ocean Engineering, 1981, 8, 443-479.	4.3	5