

# Frederic Dias

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

226  
papers

7,482  
citations

43  
h-index

79  
g-index

276  
ext. papers

8,684  
ext. citations

4  
avg, IF

6.32  
L-index

#	Paper	IF	Citations
226	Theoretical and applied considerations in depth-integrated currents for third-generation wave models. <i>AIP Advances</i> , <b>2022</b> , 12, 015017	1.5	
225	Application of a Moving Particle Semi-Implicit Numerical Wave Flume (MPS-NWF) to model design waves. <i>Coastal Engineering</i> , <b>2022</b> , 172, 104066	4.8	1
224	Solitary-wave loads on a three-dimensional submerged horizontal plate: Numerical computations and comparison with experiments. <i>Physics of Fluids</i> , <b>2021</b> , 33, 037129	4.4	5
223	Finite-amplitude steady-state resonant waves in a circular basin. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 915,	3.7	1
222	Reactive control of wave energy devices – the modelling paradox. <i>Applied Ocean Research</i> , <b>2021</b> , 109, 102574	3.4	4
221	Storm Waves May Be the Source of Some "Tsunami" Coastal Boulder Deposits. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL090775	4.9	3
220	Faster Than Real Time Tsunami Warning with Associated Hazard Uncertainties. <i>Frontiers in Earth Science</i> , <b>2021</b> , 8,	3.5	7
219	The Peregrine Breather on the Zero-Background Limit as the Two-Soliton Degenerate Solution: An Experimental Study. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	2
218	An efficient fully Lagrangian solver for modeling wave interaction with oscillating wave surge converter. <i>Ocean Engineering</i> , <b>2021</b> , 236, 109540	3.9	4
217	Sensitivity analysis of wind input parametrizations in the WAVEWATCH III spectral wave model using the ST6 source term package for Ireland. <i>Applied Ocean Research</i> , <b>2021</b> , 115, 102826	3.4	2
216	Far-Field Maximal Power Absorption of a Bulging Cylindrical Wave Energy Converter. <i>Energies</i> , <b>2020</b> , 13, 5499	3.1	3
215	Systematic Review Shows That Work Done by Storm Waves Can Be Misinterpreted as Tsunami-Related Because Commonly Used Hydrodynamic Equations Are Flawed. <i>Frontiers in Marine Science</i> , <b>2020</b> , 7,	4.5	21
214	Modelling with Volna-OP2 – towards Tsunami Threat Reduction for the Irish Coastline. <i>Geosciences (Switzerland)</i> , <b>2020</b> , 10, 226	2.7	2
213	Performance analysis of Volna-OP2 – massively parallel code for tsunami modelling. <i>Computers and Fluids</i> , <b>2020</b> , 209, 104649	2.8	5
212	An adaptive discontinuous Galerkin method for the simulation of hurricane storm surge. <i>Ocean Dynamics</i> , <b>2020</b> , 70, 641-666	2.3	4
211	Long Wave Run-Up Resonance in a Multi-Reflection System. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6172	2.6	
210	Experimental study on free-surface deformation and forces on a finite submerged plate induced by a solitary wave. <i>Physics of Fluids</i> , <b>2020</b> , 32, 086601	4.4	5

209	Influence of Computed Wave Spectra on Statistical Wave Properties. <i>Journal of Marine Science and Engineering</i> , <b>2020</b> , 8, 1023	2.4	2
208	Potential flow over a submerged rectangular obstacle: Consequences for initiation of boulder motion. <i>European Journal of Applied Mathematics</i> , <b>2020</b> , 31, 646-681	1	3
207	Extreme long waves over a varying bathymetry. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 878, 481-501	3.7	6
206	Computational model of simultaneous wave and sea current loads on tidal turbines. <i>Ocean Engineering</i> , <b>2019</b> , 184, 323-331	3.9	1
205	Large nearshore storm waves off the Irish coast. <i>Scientific Reports</i> , <b>2019</b> , 9, 15406	4.9	11
204	Capytaine: a Python-based linear potential flow solver. <i>Journal of Open Source Software</i> , <b>2019</b> , 4, 1341	5.2	2
203	Rogue waves and analogies in optics and oceanography. <i>Nature Reviews Physics</i> , <b>2019</b> , 1, 675-689	23.6	103
202	On a unified breaking onset threshold for gravity waves in deep and intermediate depth water. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 841, 463-488	3.7	42
201	Rheological considerations for the modelling of submarine sliding at Rockall Bank, NE Atlantic Ocean. <i>Physics of Fluids</i> , <b>2018</b> , 30, 030705	4.4	12
200	How does wave impact generate large boulders? Modelling hydraulic fracture of cliffs and shore platforms. <i>Marine Geology</i> , <b>2018</b> , 399, 34-46	3.3	22
199	Slamming: Recent Progress in the Evaluation of Impact Pressures. <i>Annual Review of Fluid Mechanics</i> , <b>2018</b> , 50, 243-273	22	52
198	The pressure impulse of wave slamming on an oscillating wave energy converter. <i>Journal of Fluids and Structures</i> , <b>2018</b> , 82, 258-271	3.1	15
197	Wall pressure and vorticity in the intermittently turbulent regime of the Stokes boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 851, 479-506	3.7	4
196	Measuring currents, ice drift, and waves from space: the Sea surface Kinematics Multiscale monitoring (SKIM) concept. <i>Ocean Science</i> , <b>2018</b> , 14, 337-354	4	60
195	On the steady-state resonant acoustic-gravity waves. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 849, 111-135	3.7	13
194	Using the Floating Body Symmetries to Speed Up the Numerical Computation of Hydrodynamics Coefficients With Nemoh <b>2018</b> ,		2
193	Extreme Waves in Crossing Sea States. <i>International Journal of Ocean and Coastal Engineering</i> , <b>2018</b> , 01, 1850001	0.5	7
192	Incorporating Wave Spectrum Information in Real-time Free-surface Elevation Forecasting: Real-sea Experiments. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 232-237	0.7	1

191	Functional emulation of high resolution tsunami modelling over Cascadia. <i>Annals of Applied Statistics</i> , <b>2018</b> , 12,	2.1	11
190	The VOLNA-OP2 tsunami code (version 1.5). <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 4621-4635	6.3	11
189	A potential flow model with viscous dissipation based on a modified boundary element method. <i>Engineering Analysis With Boundary Elements</i> , <b>2018</b> , 97, 1-15	2.6	14
188	Performance of WAVEWATCH-III and SWAN Models in the North Sea <b>2018</b> ,		2
187	Catalogue of extreme wave events in Ireland: revised and updated for 14 680 BP to 2017. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 729-758	3.9	15
186	Comparison of numerical hindcasted severe waves with Doppler radar measurements in the North Sea. <i>Ocean Dynamics</i> , <b>2017</b> , 67, 103-115	2.3	9
185	Pressure induced by the interaction of water waves with nearly equal frequencies and nearly opposite directions. <i>Theoretical and Applied Mechanics Letters</i> , <b>2017</b> , 7, 138-144	1.8	8
184	Characteristics of wave amplitude and currents in South China Sea induced by a virtual extreme tsunami. <i>Journal of Hydrodynamics</i> , <b>2017</b> , 29, 377-392	3.3	15
183	Uncertainties in the 2004 Sumatra-Andaman source through nonlinear stochastic inversion of tsunami waves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2017</b> , 473, 20170353	2.4	9
182	Statistical emulation of landslide-induced tsunamis at the Rockall Bank, NE Atlantic. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2017</b> , 473, 20170026	2.4	26
181	Measuring currents, ice drift, and waves from space: the Sea Surface Kinematics Multiscale monitoring (SKIM) concept <b>2017</b> ,		11
180	Wave breaking and runup of long waves approaching a cliff over a variable bathymetry. <i>Procedia IUTAM</i> , <b>2017</b> , 25, 18-27		7
179	Analytical and computational modelling for wave energy systems: the example of oscillating wave surge converters. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2017</b> , 33, 647-662	2	30
178	A new model of viscous dissipation for an oscillating wave surge converter. <i>Journal of Engineering Mathematics</i> , <b>2017</b> , 103, 195-216	1.2	11
177	Analysis of the pressure at a vertical barrier due to extreme wave run-up over variable bathymetry. <i>Theoretical and Applied Mechanics Letters</i> , <b>2017</b> , 7, 269-275	1.8	8
176	A Cost-Effective Method for Modelling Wave-OWSC Interaction. <i>International Journal of Offshore and Polar Engineering</i> , <b>2017</b> , 27, 366-373	1.7	2
175	The modular concept of the Oscillating Wave Surge Converter. <i>Renewable Energy</i> , <b>2016</b> , 85, 484-497	8.1	20
174	Real world ocean rogue waves explained without the modulational instability. <i>Scientific Reports</i> , <b>2016</b> , 6, 27715	4.9	130

173	Prediction and optimization of wave energy converter arrays using a machine learning approach. <i>Renewable Energy</i> , <b>2016</b> , 97, 504-517	8.1	27
172	The nearshore wind and wave energy potential of Ireland: A high resolution assessment of availability and accessibility. <i>Renewable Energy</i> , <b>2016</b> , 88, 494-516	8.1	74
171	Wave interaction with an Oscillating Wave Surge Converter. Part II: Slamming. <i>Ocean Engineering</i> , <b>2016</b> , 113, 319-334	3.9	55
170	Wave climate projections for Ireland for the end of the 21st century including analysis of EC-Earth winds over the North Atlantic Ocean. <i>International Journal of Climatology</i> , <b>2016</b> , 36, 4592-4607	3.5	17
169	Real-time measurements of spontaneous breathers and rogue wave events in optical fibre modulation instability. <i>Nature Communications</i> , <b>2016</b> , 7, 13675	17.4	113
168	Spatial Bayesian hierarchical modelling of extreme sea states. <i>Ocean Modelling</i> , <b>2016</b> , 107, 1-13	3	6
167	Flap gate farm: From Venice lagoon defense to resonating wave energy production. Part 2: Synchronous response to incident waves in open sea. <i>Applied Ocean Research</i> , <b>2015</b> , 52, 43-61	3.4	16
166	Will oscillating wave surge converters survive tsunamis?. <i>Theoretical and Applied Mechanics Letters</i> , <b>2015</b> , 5, 160-166	1.8	7
165	Microfluidics flow and heat transfer in microstructured fibers of circular and elliptical geometry <b>2015</b> , 3-27		
164	Violent flows in aqueous foam II: Simulation platform and results. <i>European Journal of Mechanics, B/Fluids</i> , <b>2015</b> , 54, 105-124	2.4	2
163	Effect of a straight coast on the hydrodynamics and performance of the Oscillating Wave Surge Converter. <i>Ocean Engineering</i> , <b>2015</b> , 105, 25-32	3.9	30
162	New computational methods in tsunami science. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	35
161	Caustics and Rogue Waves in an Optical Sea. <i>Scientific Reports</i> , <b>2015</b> , 5, 12822	4.9	28
160	The Vertical Distribution and Evolution of Slam Pressure on an Oscillating Wave Surge Converter <b>2015</b> ,		6
159	Numerical Study of Three Dimensional Effects of Wave Impact on an Oscillating Wave Surge Converter <b>2015</b> ,		3
158	A Machine Learning Approach to the Analysis of Wave Energy Converters <b>2015</b> ,		1
157	Hydrodynamic Modelling Competition: Overview and Approaches <b>2015</b> ,		5
156	The Future Wave Climate of Ireland: From Averages to Extremes. <i>Procedia IUTAM</i> , <b>2015</b> , 17, 40-46		4

155	Numerical Simulation of Wave Impact on a Rigid Wall Using a Two-phase Compressible SPH Method. <i>Procedia IUTAM</i> , <b>2015</b> , 18, 123-137		11
154	Spatial Variability of Extreme Sea States on the Irish West Coast <b>2015</b> ,		3
153	Emergent rogue wave structures and statistics in spontaneous modulation instability. <i>Scientific Reports</i> , <b>2015</b> , 5, 10380	4.9	69
152	Wave interaction with an oscillating wave surge converter, Part I: Viscous effects. <i>Ocean Engineering</i> , <b>2015</b> , 104, 185-203	3.9	67
151	The challenging life of wave energy devices at sea: A few points to consider. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1263-1272	16.2	53
150	Run-up amplification of transient long waves. <i>Quarterly of Applied Mathematics</i> , <b>2015</b> , 73, 177-199	0.7	4
149	Tsunami Generation Above a Sill. <i>Pure and Applied Geophysics</i> , <b>2015</b> , 172, 985-1002	2.2	6
148	Local Analysis of Wave Fields Produced From Hindcasted Rogue Wave Sea States <b>2015</b> ,		4
147	Performance Enhancement of the Oscillating Wave Surge Converter by a Breakwater. <i>Journal of Ocean and Wind Energy</i> , <b>2015</b> , 2,		3
146	Can small islands protect nearby coasts from tsunamis? An active experimental design approach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2014</b> , 470, 20140575 <sup>2.4</sup>	2.4	20
145	Motion-resonant modes of large articulated damped oscillators in waves. <i>Journal of Fluids and Structures</i> , <b>2014</b> , 49, 705-715	3.1	10
144	Instabilities, breathers and rogue waves in optics. <i>Nature Photonics</i> , <b>2014</b> , 8, 755-764	33.9	544
143	A long-term nearshore wave hindcast for Ireland: Atlantic and Irish Sea coasts (1979-2012). <i>Ocean Dynamics</i> , <b>2014</b> , 64, 1163-1180	2.3	36
142	Linking reduced breaking crest speeds to unsteady nonlinear water wave group behavior. <i>Physical Review Letters</i> , <b>2014</b> , 112, 114502	7.4	52
141	Wave-power absorption from a finite array of oscillating wave surge converters. <i>Renewable Energy</i> , <b>2014</b> , 63, 55-68	8.1	47
140	How does Oyster work? The simple interpretation of Oyster mathematics. <i>European Journal of Mechanics, B/Fluids</i> , <b>2014</b> , 47, 124-131	2.4	55
139	Microfluidics in Microstructure Optical Fibers: Heat Flux and Pressure-driven and Other Flows. <i>Procedia IUTAM</i> , <b>2014</b> , 11, 23-33		2
138	On the Modelling of Tsunami Generation and Tsunami Inundation. <i>Procedia IUTAM</i> , <b>2014</b> , 10, 338-355		21

137	Conditions for extreme wave runup on a vertical barrier by nonlinear dispersion. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 748, 768-788	3.7	29
136	Pressure Fluctuations on a Vertical Wall During Extreme Run-Up Cycles <b>2014</b> ,		1
135	Numerical Study of Wave Slamming on an Oscillating Flap <b>2014</b> ,		4
134	Oscillating Wave Surge Converters: Interactions in a Wave Farm <b>2014</b> ,		1
133	Extreme waves induced by strong depth transitions: Fully nonlinear results. <i>Physics of Fluids</i> , <b>2014</b> , 26, 051705	4.4	34
132	Wave farm modelling of oscillating wave surge converters. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2014</b> , 470, 20140118	2.4	25
131	Hydro-acoustic precursors of gravity waves generated by surface pressure disturbances localised in space and time. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 754, 250-262	3.7	15
130	Ship waves and Kelvin. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 746, 1-4	3.7	32
129	The Conformal-mapping Method for Surface Gravity Waves in the Presence of Variable Bathymetry and Mean Current. <i>Procedia IUTAM</i> , <b>2014</b> , 11, 110-118		15
128	Hydrodynamics of the oscillating wave surge converter in the open ocean. <i>European Journal of Mechanics, B/Fluids</i> , <b>2013</b> , 41, 1-10	2.4	75
127	An Experimental Study of the Hydrodynamic Effects of Marine Growth on Wave Energy Converters <b>2013</b> ,		4
126	A Detailed Investigation of the Nearshore Wave Climate and the Nearshore Wave Energy Resource on the West Coast of Ireland <b>2013</b> ,		8
125	Relations for a periodic array of flap-type wave energy converters. <i>Applied Ocean Research</i> , <b>2013</b> , 39, 31-39	3.4	43
124	On the use of the finite fault solution for tsunami generation problems. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2013</b> , 27, 177-199	2.3	20
123	Shock propagation in regular wetted arrays of fibers. <i>Shock Waves</i> , <b>2013</b> , 23, 81-89	1.6	4
122	Extreme wave runup on a vertical cliff. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3138-3143	4.9	29
121	Numerical Simulation of Wave Interaction With an Oscillating Wave Surge Converter <b>2013</b> ,		14
120	Real time noise and wavelength correlations in octave-spanning supercontinuum generation. <i>Optics Express</i> , <b>2013</b> , 21, 18452-60	3.3	71

119	On Hokusai's : localization, linearity and a rogue wave in sub-Antarctic waters. <i>Notes and Records of the Royal Society</i> , <b>2013</b> , 67, 159-164	0.4	10
118	Emergence of coherent wave groups in deep-water random sea. <i>Physical Review E</i> , <b>2013</b> , 87, 063001	2.4	17
117	Incoherent resonant seeding of modulation instability in optical fiber. <i>Optics Letters</i> , <b>2013</b> , 38, 5338-41	3	26
116	Wave Power Extraction by an Oscillating Wave Surge Converter in Random Seas <b>2013</b> ,		7
115	Numerical Simulation of an Oscillating Wave Surge Converter <b>2013</b> ,		5
114	Extreme wave events in Ireland: 14 680 BP 2012. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 625-648	3.9	38
113	On weakly nonlinear gravity-capillary solitary waves. <i>Wave Motion</i> , <b>2012</b> , 49, 221-237	1.8	2
112	Observation of Kuznetsov-Ma soliton dynamics in optical fibre. <i>Scientific Reports</i> , <b>2012</b> , 2, 463	4.9	282
111	Real-time full bandwidth measurement of spectral noise in supercontinuum generation. <i>Scientific Reports</i> , <b>2012</b> , 2, 882	4.9	107
110	Statistical emulation of a tsunami model for sensitivity analysis and uncertainty quantification. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 2003-2018	3.9	28
109	Resonant behaviour of an oscillating wave energy converter in a channel. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 701, 482-510	3.7	84
108	Shock velocity increase due to a heterogeneity produced by a two-gas layer. <i>Physical Review E</i> , <b>2012</b> , 85, 066307	2.4	2
107	Kuznetsov-Ma Soliton Dynamics in Nonlinear Fiber Optics <b>2012</b> ,		1
106	Analytical studies of modulation instability and nonlinear compression dynamics in optical fiber propagation <b>2011</b> ,		2
105	Rogue Waves. <i>Lecture Notes Series, Institute for Mathematical Sciences</i> , <b>2011</b> , 295-307	0.1	1
104	Computing the Maslov index of solitary waves, Part 2: Phase space with dimension greater than four. <i>Physica D: Nonlinear Phenomena</i> , <b>2011</b> , 240, 1334-1344	3.3	15
103	Bifurcations of solitons and their stability. <i>Physics Reports</i> , <b>2011</b> , 507, 43-105	27.7	81
102	The VOLNA code for the numerical modeling of tsunami waves: Generation, propagation and inundation. <i>European Journal of Mechanics, B/Fluids</i> , <b>2011</b> , 30, 598-615	2.4	54



101	Stability of some stationary solutions to the forced KdV equation with one or two bumps. <i>Journal of Engineering Mathematics</i> , <b>2011</b> , 70, 175-189	1.2	35
100	Potential-flow studies of steady two-dimensional jets, waterfalls, weirs and sprays. <i>Journal of Engineering Mathematics</i> , <b>2011</b> , 70, 165-174	1.2	7
99	Local run-up amplification by resonant wave interactions. <i>Physical Review Letters</i> , <b>2011</b> , 107, 124502	7.4	24
98	The Peregrine soliton in nonlinear fibre optics. <i>Nature Physics</i> , <b>2010</b> , 6, 790-795	16.2	927
97	Modified shock velocity in heterogeneous wetted foams in the strong shock limit. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 012702	2.1	9
96	PROGRESS IN FULLY NONLINEAR POTENTIAL FLOW MODELING OF 3D EXTREME OCEAN WAVES. <i>Series on Quality, Reliability and Engineering Statistics</i> , <b>2010</b> , 75-128		16
95	Impact of a falling jet. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 657, 22-35	3.7	8
94	Rogue waves [towards a unifying concept?]: Discussions and debates. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 185, 5-15	2.3	82
93	Extreme events in optics: Challenges of the MANUREVA project. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 185, 125-133	2.3	25
92	Influence of sedimentary layering on tsunami generation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2010</b> , 199, 1268-1275	5.7	12
91	Collisions and turbulence in optical rogue wave formation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 989-996	2.3	82
90	On the fully-nonlinear shallow-water generalized Serre equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 1049-1053	2.3	54
89	A two-fluid model for violent aerated flows. <i>Computers and Fluids</i> , <b>2010</b> , 39, 283-293	2.8	20
88	A Study of the Tsunami Effects of Two Landslides in the St. Lawrence Estuary <b>2010</b> , 755-764		7
87	Energy of tsunami waves generated by bottom motion. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2009</b> , 465, 725-744	2.4	36
86	Direct detection of optical rogue wave energy statistics in supercontinuum generation. <i>Electronics Letters</i> , <b>2009</b> , 45, 217	1.1	45
85	On the Maslov index of multi-pulse homoclinic orbits. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2009</b> , 465, 2897-2910	2.4	8
84	Tsunami generation by dynamic displacement of sea bed due to dip-slip faulting. <i>Mathematics and Computers in Simulation</i> , <b>2009</b> , 80, 837-848	3.3	25

83	Computing the Maslov index of solitary waves, Part 1: Hamiltonian systems on a four-dimensional phase space. <i>Physica D: Nonlinear Phenomena</i> , <b>2009</b> , 238, 1841-1867	3.3	27
82	Modulation instability, Akhmediev Breathers and continuous wave supercontinuum generation. <i>Optics Express</i> , <b>2009</b> , 17, 21497-508	3.3	351
81	Impact of a rising stream on a horizontal plate of finite extent. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 621, 243-258	3.7	10
80	On satisfying the radiation condition in free-surface flows. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 624, 179-189.	3.7	9
79	Collapse of solitary waves near the transition from supercritical to subcritical bifurcations. <i>JETP Letters</i> , <b>2008</b> , 87, 667-671	1.2	6
78	A Boussinesq system for two-way propagation of interfacial waves. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 2365-2389	3.3	28
77	Theory of weakly damped free-surface flows: A new formulation based on potential flow solutions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 1297-1302	2.3	92
76	Viscous potential free-surface flows in a fluid layer of finite depth. <i>Comptes Rendus Mathematique</i> , <b>2007</b> , 345, 113-118	0.4	40
75	Dissipative Boussinesq equations. <i>Comptes Rendus - Mecanique</i> , <b>2007</b> , 335, 559-583	2.1	40
74	Deep-water internal solitary waves near critical density ratio. <i>Physica D: Nonlinear Phenomena</i> , <b>2007</b> , 225, 153-168	3.3	13
73	Numerical modeling of extreme rogue waves generated by directional energy focusing. <i>Wave Motion</i> , <b>2007</b> , 44, 395-416	1.8	90
72	Comparison between three-dimensional linear and nonlinear tsunami generation models. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2007</b> , 21, 245-269	2.3	66
71	Enhancement of the Benjamin-Feir instability with dissipation. <i>Physics of Fluids</i> , <b>2007</b> , 19, 104104	4.4	23
70	Water waves generated by a moving bottom <b>2007</b> , 65-95		28
69	Influence of rapid changes in a channel bottom on free-surface flows. <i>IMA Journal of Applied Mathematics</i> , <b>2007</b> , 73, 254-273	1	20
68	DYNAMICS OF TSUNAMI WAVES <b>2007</b> , 201-224		8
67	Fast computation of the Maslov index for hyperbolic linear systems with periodic coefficients. <i>Journal of Physics A</i> , <b>2006</b> , 39, 14545-14557		10
66	A fast method for nonlinear three-dimensional free-surface waves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2006</b> , 462, 2715-2735	2.4	51

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