

# Maurizio Brocchini

## List of Publications by Year in descending order

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Version: 2024-02-01

152  
papers

3,610  
citations

136885

32  
h-index

175177

52  
g-index

156  
all docs

156  
docs citations

156  
times ranked

2194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction between breaking-induced vortices and near-bed structures. Part 1. Experimental and theoretical investigation. <i>Journal of Fluid Mechanics</i> , 2022, 940, .	1.4	3
2	Wave- and Tide-Induced Infragravity Dynamics at an Intermediate- to Dissipative Microtidal Beach. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	5
3	A Semi-Empirical Approach for Tsunami Inundation: An Application to the Coasts of South Italy. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1
4	Effects of stiffness and configuration of brace-viscous damper systems on the response mitigation of offshore jacket platforms. <i>Applied Ocean Research</i> , 2021, 107, 102482.	1.8	14
5	Long-term evolution of an inner bar at the mouth of a microtidal river. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 262, 107573.	0.9	5
6	Preliminary Results on the Dynamics of a Pile-Moored Fish Cage with Elastic Net in Currents and Waves. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 14.	1.2	4
7	Efficiency evaluation of a ductless Archimedes turbine: Laboratory experiments and numerical simulations. <i>Renewable Energy</i> , 2020, 146, 867-879.	4.3	19
8	Wave-forced dynamics in the nearshore river mouths, and swash zones. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 75-95.	1.2	17
9	Numerical Modeling of Flow and Bed Evolution of Bichromatic Wave Groups on an Intermediate Beach Using Nonhydrostatic XBeach. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2020, 146, .	0.5	18
10	Towards the simulation of flood evacuation in urban scenarios: Experiments to estimate human motion speed in floodwaters. <i>Safety Science</i> , 2020, 123, 104563.	2.6	38
11	Fluid dynamics in the functional foregut of xylem-sap feeding insects: A comparative study of two <i>Xylella fastidiosa</i> vectors. <i>Journal of Insect Physiology</i> , 2020, 120, 103995.	0.9	12
12	An analytical description of the energy balance in turbulent, round, free jets. <i>AIP Advances</i> , 2020, 10, 075218.	0.6	0
13	Sandbar dynamics in microtidal environments: Migration patterns in unprotected and bounded beaches. <i>Coastal Engineering</i> , 2020, 161, 103768.	1.7	16
14	Upstream Propagating Long-Wave Modes at a Microtidal River Mouth. <i>Environmental Sciences Proceedings</i> , 2020, 2, 15.	0.3	1
15	Wave-resolving shoreline boundary conditions for wave-averaged coastal models. <i>Ocean Modelling</i> , 2020, 153, 101661.	1.0	1
16	Hydrodynamics at a microtidal inlet: Analysis of propagation of the main wave components. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 235, 106603.	0.9	20
17	Novel free surface boundary conditions for spilling breaking waves. <i>Coastal Engineering</i> , 2020, 159, 103717.	1.7	3
18	Wave-induced vortex generation around a slender vertical cylinder. <i>Physics of Fluids</i> , 2020, 32, .	1.6	10

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19	Flooding Pedestriansâ€™ Evacuation in Historical Urban Scenario: A Tool for Risk Assessment Including Human Behaviors. RILEM Bookseries, 2019, , 1152-1161.	0.2	6
20	Linear depth inversion sensitivity to wave viewing angle using synthetic optical video. Coastal Engineering, 2019, 152, 103535.	1.7	11
21	A model chain approach for coastal inundation: Application to the bay of Alghero. Estuarine, Coastal and Shelf Science, 2019, 219, 56-70.	0.9	19
22	Monitoring for Coastal Resilience: Preliminary Data from Five Italian Sandy Beaches. Sensors, 2019, 19, 1854.	2.1	17
23	Long waves approaching the coast: Greenâ€™s law generalization. Journal of Ocean Engineering and Marine Energy, 2019, 5, 385-402.	0.9	6
24	On a layer model for spilling breakers: A preliminary experimental analysis. European Journal of Mechanics, B/Fluids, 2019, 73, 24-47.	1.2	6
25	Wave-induced morphodynamics and sediment transport around a slender vertical cylinder. Advances in Water Resources, 2019, 129, 263-280.	1.7	12
26	Research and Engineering for Resilient Infrastructures and Environment Protection. , 2019, , 311-324.		0
27	Sustainable Engineering for Resilient Built and Natural Environments. , 2019, , 297-310.		0
28	Normalized Scalar Product Approach for Nearshore Bathymetric Estimation From X-Band Radar Images: An Assessment Based on Simulated and Measured Data. IEEE Journal of Oceanic Engineering, 2018, 43, 221-237.	2.1	15
29	An assessment of the roller approach for wave breaking in a hybrid finite-volume finite-difference Boussinesq-type model for the surf-zone. Applied Ocean Research, 2018, 73, 160-178.	1.8	11
30	Monitoring for Coastal Resilience: A Project for Five Italian Beaches. , 2018, , .		1
31	Extra Strain Rates in an unsteady spilling breaking wave. Scientific Reports, 2018, 8, 13926.	1.6	3
32	Wave-Current Interactions and Infragravity Wave Propagation at a Microtidal Inlet. Proceedings (mdpi), 2018, 2, .	0.2	9
33	Experimental and Numerical Investigation of Pre-Breaking and Breaking Vorticity within a Plunging Breaker. Water (Switzerland), 2018, 10, 387.	1.2	20
34	Hydro- and Morpho-dynamics Induced by a Vertical Slender Pile under Regular and Random Waves. Journal of Waterway, Port, Coastal and Ocean Engineering, 2018, 144, .	0.5	24
35	Experimental Setup for the Validation of the Bio-Inspired Thruster of an Ostraciiform Swimming Robot. , 2018, , .		0
36	Waves and Currents at a River Mouth: The Role of Macrovortices, Sub-Grid Turbulence and Seabed Friction. Water (Switzerland), 2018, 10, 550.	1.2	6

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37	Prediction of scour depth at breakwaters due to non-breaking waves using machine learning approaches. Applied Ocean Research, 2017, 63, 120-128.	1.8	27
38	Prediction of non-breaking wave induced scour depth at the trunk section of breakwaters using Genetic Programming and Artificial Neural Networks. Coastal Engineering, 2017, 121, 107-118.	1.7	27
39	Snow avalanches striking water basins: behaviour of the avalanche's centre of mass and front. Natural Hazards, 2017, 88, 1297-1323.	1.6	13
40	A depth semi-averaged model for coastal dynamics. Physics of Fluids, 2017, 29, .	1.6	11
41	Comparison between the wintertime and summertime dynamics of the Misa River estuary. Marine Geology, 2017, 385, 27-40.	0.9	29
42	Wave attenuation over porous seabeds: A numerical study. Ocean Modelling, 2017, 117, 28-40.	1.0	8
43	Investigation of the Dynamic Loads on a Vertically Oscillating Circular Cylinder Close to the Sea Bed: The Role of Viscosity. Journal of Offshore Mechanics and Arctic Engineering, 2017, 139, .	0.6	3
44	A preliminary combined simulation tool for the risk assessment of pedestrians' flood-induced evacuation. Environmental Modelling and Software, 2017, 96, 14-29.	1.9	51
45	FLOW DYNAMICS OF WAVES PROPAGATING OVER DIFFERENT PERMEABLE BEDS. Coastal Engineering Proceedings, 2017, , 35.	0.1	0
46	Sensors for Coastal Monitoring. Journal of Sensors, 2016, 2016, 1-2.	0.6	1
47	Impulse waves generated by snow avalanches: Momentum and energy transfer to a water body. Journal of Geophysical Research F: Earth Surface, 2016, 121, 2399-2423.	1.0	48
48	60th Anniversary Special Issue on Significant Advances in Coastal Engineering. Journal of Waterway, Port, Coastal and Ocean Engineering, 2016, 142, 02016001.	0.5	0
49	Experimental study of the short-term efficiency of different breakwater configurations on beach protection. Journal of Ocean Engineering and Marine Energy, 2016, 2, 195-210.	0.9	24
50	Advances in numerical modelling of swash zone dynamics. Coastal Engineering, 2016, 115, 26-41.	1.7	69
51	Shock trains on a planar beach: quasi-analytical and fully numerical solutions. Natural Hazards, 2016, 84, 621-635.	1.6	0
52	Assessing the Hydro-Morphodynamic Response of a Beach Protected by Detached, Impermeable, Submerged Breakwaters: A Numerical Approach. Journal of Coastal Research, 2016, 32, 590.	0.1	16
53	Local scour around structures and the phenomenology of turbulence. Journal of Fluid Mechanics, 2015, 779, 309-324.	1.4	78
54	Advances in fluid mechanics for offshore engineering: a modelling perspective. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140115.	1.6	0

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55	Whole-wavelength description of a wave boundary layer over permeable wall. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	11
56	Scour depth under pipelines placed on weakly cohesive soils. <i>Applied Ocean Research</i> , 2015, 52, 73-79.	1.8	20
57	Summertime conditions of a muddy estuarine environment: the EsCoSed project contribution. <i>Water Science and Technology</i> , 2015, 71, 1451-1457.	1.2	11
58	Gas cavity-body interactions: Efficient numerical solution. <i>Computers and Fluids</i> , 2015, 113, 14-19.	1.3	1
59	Hydroelastic behaviour of a structure exposed to an underwater explosion. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140103.	1.6	3
60	Turbulence in Rivers. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2015, , 51-78.	0.2	18
61	Vorticity generation due to cross-sea. <i>Journal of Fluid Mechanics</i> , 2014, 744, 286-309.	1.4	10
62	A shallow-water sloshing model for wave breaking in rectangular tanks. <i>Journal of Fluid Mechanics</i> , 2014, 746, 437-465.	1.4	18
63	Modeling and Analysis of an Electrically Actuated Microbeam Based on Nonclassical Beam Theory. <i>Journal of Computational and Nonlinear Dynamics</i> , 2014, 9, .	0.7	18
64	Flow dynamics on a porous medium. <i>Coastal Engineering</i> , 2014, 91, 280-298.	1.7	22
65	Fluid-particle interaction and generation of coherent structures over permeable beds: an experimental analysis. <i>Advances in Water Resources</i> , 2014, 72, 97-109.	1.7	16
66	A wave-by-wave analysis for the evaluation of the breaking-wave celerity. <i>Applied Ocean Research</i> , 2014, 46, 15-27.	1.8	18
67	Sediment transport and morphodynamics generated by a dam-break swash uprush: Coupled vs uncoupled modeling. <i>Coastal Engineering</i> , 2014, 89, 99-105.	1.7	25
68	A natural-scale study of cohesive sediment transport: The Misa River case. , 2014, , 843-850.		1
69	Numerical Modeling of the Influence of the Beach Profile on Wave Run-Up. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2013, 139, 61-71.	0.5	24
70	A reasoned overview on Boussinesq-type models: the interplay between physics, mathematics and numerics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130496.	1.0	109
71	Bore-generated macrovortices on erodible beds. <i>Journal of Fluid Mechanics</i> , 2013, 734, 486-508.	1.4	13
72	Experimental investigation of the wave-induced flow around a surface-touching cylinder. <i>Journal of Fluids and Structures</i> , 2013, 37, 62-87.	1.5	37

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73	Dynamical characteristics of an electrically actuated microbeam under the effects of squeeze-film and thermoelastic damping. <i>International Journal of Engineering Science</i> , 2013, 69, 16-32.	2.7	38
74	A Novel Two-fluid Model for the Identification of Possible Multiple Solutions in Slightly Inclined Pipelines. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2013, 14, 45-59.	0.4	0
75	Beyond Boussinesq-type equations: Semi-integrated models for coastal dynamics. <i>Physics of Fluids</i> , 2013, 25, .	1.6	31
76	Experimental Rotations of a Pendulum on Water Waves. <i>Journal of Computational and Nonlinear Dynamics</i> , 2012, 7, .	0.7	31
77	A multi-purpose, intra-wave, shallow water hydro-morphodynamic solver. <i>Advances in Water Resources</i> , 2012, 38, 13-26.	1.7	43
78	An experimental study on sediment transport and bed evolution under different swash zone morphological conditions. <i>Coastal Engineering</i> , 2012, 68, 31-43.	1.7	47
79	Transversal and longitudinal mixing in compound channels. <i>Water Resources Research</i> , 2012, 48, .	1.7	21
80	Experimental investigation of the nearbed dynamics around a submarine pipeline laying on different types of seabed: The interaction between turbulent structures and particles. <i>Advances in Water Resources</i> , 2012, 48, 31-46.	1.7	51
81	Dynamics of a Micro Electrical Mechanical System Subject to Thermoelastic and Squeeze-Film Damping. <i>MATEC Web of Conferences</i> , 2012, 1, 04004.	0.1	0
82	On the role of the Chezy frictional term near the shoreline. <i>Theoretical and Computational Fluid Dynamics</i> , 2012, 26, 105-116.	0.9	24
83	THE MORPHOLOGICAL RESPONSE OF BEACHES PROTECTED BY DIFFERENT BREAKWATER CONFIGURATIONS. <i>Coastal Engineering Proceedings</i> , 2012, 1, 52.	0.1	7
84	Comparative analysis of sea wave dissipation induced by three flow mechanisms. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 554-561.	0.7	18
85	Swash Zone Dynamics due to Impulsive Waves. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2011, 137, 192-203.	0.5	5
86	Lagrangian mixing in straight compound channels. <i>Journal of Fluid Mechanics</i> , 2011, 675, 168-198.	1.4	21
87	INFLUENCE OF SWASH ZONE MORPHOLOGY ON OFFSHORE BAR MIGRATION. , 2011, , .		0
88	Swash zone response under various wave regimes. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 55-63.	0.7	9
89	Solving the nonlinear shallow-water equations in physical space. <i>Journal of Fluid Mechanics</i> , 2010, 643, 207-232.	1.4	42
90	Dispersive nonlinear shallow-water equations: some preliminary numerical results. <i>Journal of Engineering Mathematics</i> , 2010, 67, 71-84.	0.6	13

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91	On the wave damping due to a permeable seabed. Coastal Engineering, 2010, 57, 1029-1041.	1.7	26
92	Analysis of the Nonlinear Shallow Water Equations Over Nonplanar Topography. Studies in Applied Mathematics, 2010, 124, 85-103.	1.1	7
93	Horizontal mixing of quasi-uniform straight compound channel flows. Journal of Fluid Mechanics, 2010, 643, 425-435.	1.4	30
94	Evolution of the air cavity during a depressurized wave impact. II. The dynamic field. Physics of Fluids, 2010, 22, .	1.6	40
95	Evolution of the air cavity during a depressurized wave impact. I. The kinematic flow field. Physics of Fluids, 2010, 22, .	1.6	41
96	Working of Defense Coastal Structures Dissipating by Macroroughness. Journal of Waterway, Port, Coastal and Ocean Engineering, 2010, 136, 79-90.	0.5	11
97	Scouring Below Pipelines: The Role of Vorticity and Turbulence. , 2010, , .		0
98	A study of violent sloshing wave impacts using an improved SPH method. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 94-104.	0.7	57
99	Nearshore bar migration and sediment-induced buoyancy effects. Continental Shelf Research, 2010, 30, 226-238.	0.9	11
100	Modeling of the Wave Setup Inshore of an Array of Submerged Breakwaters. Journal of Waterway, Port, Coastal and Ocean Engineering, 2009, 135, 38-51.	0.5	10
101	Dispersive Nonlinear Shallow Water Equations. Studies in Applied Mathematics, 2009, 122, 1-28.	1.1	31
102	The early stages of shallow flows in an inclined flume. Journal of Fluid Mechanics, 2009, 633, 285-309.	1.4	11
103	The morphodynamics of tidal sand waves: A model overview. Coastal Engineering, 2008, 55, 657-670.	1.7	51
104	Use of numerical models to study land-based sedimentation and subsequent nearshore morphological evolution. Coastal Engineering, 2008, 55, 601-621.	1.7	8
105	Maximum run-up, breaking conditions and dynamical forces in the swash zone: a boundary value approach. Coastal Engineering, 2008, 55, 732-740.	1.7	27
106	The effects of flow stratification by non-cohesive sediment on transport in high-energy wave-driven flows. Journal of Fluid Mechanics, 2008, 610, 43-67.	1.4	29
107	Recent advances in modeling swash zone dynamics: Influence of surfâ€swash interaction on nearshore hydrodynamics and morphodynamics. Reviews of Geophysics, 2008, 46, .	9.0	108
108	Nonlinear Shallow Water Equation Modeling for Coastal Engineering. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 104-120.	0.5	81

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109	Dispersive effects on wave-current interaction and vorticity transport in nearshore flows. <i>Physics of Fluids</i> , 2008, 20, .	1.6	7
110	The mean and turbulent flow structure of a weak hydraulic jump. <i>Physics of Fluids</i> , 2008, 20, .	1.6	51
111	Pipe-Soil Interaction: An Evaluation of a Numerical Model. , 2007, , 259.		1
112	A dissipative point-vortex model for nearshore circulation. <i>Journal of Fluid Mechanics</i> , 2007, 589, 455-478.	1.4	7
113	Integral properties of the swash zone and averaging. Part 3. Longshore shoreline boundary conditions for wave-averaged nearshore circulation models. <i>Journal of Fluid Mechanics</i> , 2007, 573, 399-415.	1.4	8
114	Examining the Contribution of Sediment Stratification to the Evolution of Seabed Morphology. , 2007, , .		0
115	The Boundary Value Problem for the Nonlinear Shallow Water Equations. <i>Studies in Applied Mathematics</i> , 2007, 119, 73-93.	1.1	63
116	On shallow-water wakes: an analytical study. <i>Journal of Fluid Mechanics</i> , 2006, 567, 457.	1.4	21
117	Topographically controlled, breaking-wave-induced macrovortices. Part 2. Changing geometries. <i>Journal of Fluid Mechanics</i> , 2006, 559, 57.	1.4	37
118	Topographically controlled, breaking-wave-induced macrovortices. Part 3. The mixing features. <i>Journal of Fluid Mechanics</i> , 2006, 559, 81.	1.4	17
119	Integral swash-zone models. <i>Continental Shelf Research</i> , 2006, 26, 653-660.	0.9	8
120	Estimation of complex air-water interfaces from particle image velocimetry images. <i>Experiments in Fluids</i> , 2006, 40, 764-775.	1.1	19
121	Topographically-induced enstrophy production/dissipation in coastal models. <i>Physics of Fluids</i> , 2006, 18, 126603.	1.6	6
122	Wave impact loads: The role of the flip-through. <i>Physics of Fluids</i> , 2006, 18, 122101.	1.6	145
123	Swash zone boundary conditions for long-wave models. <i>Coastal Engineering</i> , 2005, 52, 971-976.	1.7	7
124	A note on the decay of vorticity in shallow flow calculations. <i>Physics of Fluids</i> , 2004, 16, 2469-2475.	1.6	8
125	Macrovortices-induced horizontal mixing in compound channels. <i>Ocean Dynamics</i> , 2004, 54, 333.	0.9	16
126	On the modeling of sand wave migration. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	79

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127	Boussinesq modeling of breaking waves: Description of turbulence. Journal of Geophysical Research, 2004, 109, .	3.3	32
128	Topographically controlled, breaking-wave-induced macrovortices. Part 1. Widely separated breakwaters. Journal of Fluid Mechanics, 2004, 507, 289-307.	1.4	42
129	Experimental investigation and numerical modelling of steep forced water waves. Journal of Fluid Mechanics, 2003, 490, 217-249.	1.4	88
130	Experimental validation and characterization of mean swash zone boundary conditions. Journal of Geophysical Research, 2003, 108, .	3.3	13
131	ON SWASH ZONE BOUNDARY CONDITIONS FOR WAVE-AVERAGED MODELS. , 2003, , .		0
132	STRUCTURE-GENERATED MACROVORTICES AND THEIR EVOLUTION IN VERY SHALLOW DEPTHS. , 2003, , .		3
133	Free surface boundary conditions at a bubbly/weakly splashing air-water interface. Physics of Fluids, 2002, 14, 1834-1840.	1.6	36
134	Sea waves and mass transport on a sloping beach. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 2053-2082.	1.0	13
135	Integral flow properties of the swash zone and averaging. Part 2. Shoreline boundary conditions for wave-averaged models. Journal of Fluid Mechanics, 2002, 458, 269-281.	1.4	17
136	An integral swash zone model with friction: an experimental and numerical investigation. Coastal Engineering, 2002, 45, 89-110.	1.7	40
137	A comparison of two different types of shoreline boundary conditions. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 4475-4496.	3.4	23
138	On using Boussinesq-type equations near the shoreline: a note of caution. Ocean Engineering, 2002, 29, 1569-1575.	1.9	21
139	The dynamics of strong turbulence at free surfaces. Part 1. Description. Journal of Fluid Mechanics, 2001, 449, 225-254.	1.4	250
140	The dynamics of strong turbulence at free surfaces. Part 2. Free-surface boundary conditions. Journal of Fluid Mechanics, 2001, 449, 255-290.	1.4	102
141	Modelling the run-up of significant wave groups. Continental Shelf Research, 2001, 21, 1533-1550.	0.9	29
142	On the shoreline boundary conditions for Boussinesq-type models. International Journal for Numerical Methods in Fluids, 2001, 37, 479-500.	0.9	28
143	An efficient solver for nearshore flows based on the WAF method. Coastal Engineering, 2001, 43, 105-129.	1.7	94
144	The Modelling of a Spilling Breaker: Strong Turbulence at a Free Surface. , 1999, , 72.		0

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145	The run-up of weakly-two-dimensional solitary pulses. <i>Nonlinear Processes in Geophysics</i> , 1998, 5, 27-38.	0.6	8
146	The Equations for Integral and Mean Flow Properties in the Swash Zone. , 1997, , 4134.		0
147	Eulerian and Lagrangian aspects of the longshore drift in the surf and swash zones. <i>Journal of Geophysical Research</i> , 1997, 102, 23155-23168.	3.3	16
148	Hindcast of a storm surge induced by local real wind fields in the Venice Lagoon. <i>Continental Shelf Research</i> , 1997, 17, 1513-1538.	0.9	28
149	Integral flow properties of the swash zone and averaging. <i>Journal of Fluid Mechanics</i> , 1996, 317, 241-273.	1.4	94
150	Calculation of a Mass-Consistent Two-Dimensional Wind Field with Divergence Control. <i>Journal of Applied Meteorology and Climatology</i> , 1995, 34, 2543-2555.	1.7	19
151	The modelling of short waves in shallow waters and in the surf zone. <i>Il Nuovo Cimento Della Societ� Italiana Di Fisica C</i> , 1994, 17, 549-564.	0.2	1
152	Wave-Forced Dynamics at Microtidal River Mouths. , 0, , .		0