

Philip Lf Liu

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237
papers

8,303
citations

50
h-index

81
g-index

253
ext. papers

9,154
ext. citations

4
avg, IF

6.16
L-index

#	Paper	IF	Citations
237	A numerical study of breaking waves in the surf zone. <i>Journal of Fluid Mechanics</i> , 1998 , 359, 239-264	3.7	573
236	Modeling wave runup with depth-integrated equations. <i>Coastal Engineering</i> , 2002 , 46, 89-107	4.8	282
235	Numerical Modeling of Wave Interaction with Porous Structures. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999 , 125, 322-330	1.7	259
234	Internal Wave-Maker for Navier-Stokes Equations Models. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999 , 125, 207-215	1.7	203
233	A numerical model for wave motions and turbulence flows in front of a composite breakwater. <i>Coastal Engineering</i> , 2002 , 46, 25-50	4.8	201
232	Observations by the international tsunami survey team in Sri Lanka. <i>Science</i> , 2005 , 308, 1595	33.3	196
231	Waves over Soft Muds: A Two-Layer Fluid Model. <i>Journal of Physical Oceanography</i> , 1978 , 8, 1121-1131	2.4	190
230	Runup and rundown generated by three-dimensional sliding masses. <i>Journal of Fluid Mechanics</i> , 2005 , 536, 107-144	3.7	184
229	An analysis of 2004 Sumatra earthquake fault plane mechanisms and Indian Ocean tsunami. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 147-154	1.9	152
228	On two-phase sediment transport: sheet flow of massive particles. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004 , 460, 2223-2250	2.4	145
227	Vortex generation and evolution in water waves propagating over a submerged rectangular obstacle. <i>Coastal Engineering</i> , 2001 , 44, 13-36	4.8	118
226	Turbulence transport, vorticity dynamics, and solute mixing under plunging breaking waves in surf zone. <i>Journal of Geophysical Research</i> , 1998 , 103, 15677-15694		116
225	Propagation and amplification of tsunamis at coastal boundaries. <i>Nature</i> , 1994 , 372, 353-355	50.4	99
224	Modified Boussinesq equations and associated parabolic models for water wave propagation. <i>Journal of Fluid Mechanics</i> , 1995 , 288, 351-381	3.7	98
223	A numerical study of the run-up generated by three-dimensional landslides. <i>Journal of Geophysical Research</i> , 2005 , 110,		96
222	Nonlinear refraction-diffraction of waves in shallow water. <i>Journal of Fluid Mechanics</i> , 1985 , 153, 185	3.7	95
221	Particle Image Velocimetry Measurements within a Laboratory-Generated Swash Zone. <i>Journal of Engineering Mechanics - ASCE</i> , 2003 , 129, 1119-1129	2.4	94

220	Optimal time-varying pumping rates for groundwater remediation: Application of a constrained optimal control algorithm. <i>Water Resources Research</i> , 1992 , 28, 3157-3173	5.4	94
219	Runup and Rundown of Solitary Waves on Sloping Beaches. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999 , 125, 247-255	1.7	92
218	Boundary layer flow and bed shear stress under a solitary wave. <i>Journal of Fluid Mechanics</i> , 2007 , 574, 449-463	3.7	88
217	Velocity, acceleration and vorticity under a breaking wave. <i>Physics of Fluids</i> , 1998 , 10, 327-329	4.4	88
216	Report on the International Workshop on Long-Wave Run-up. <i>Journal of Fluid Mechanics</i> , 1991 , 229, 675	3.7	88
215	Seepage force on a pipeline buried in a poroelastic seabed under wave loadings. <i>Applied Ocean Research</i> , 1986 , 8, 22-32	3.4	88
214	On two-phase sediment transport: Dilute flow. <i>Journal of Geophysical Research</i> , 2003 , 108,		84
213	A finite element model for wave refraction and diffraction. <i>Applied Ocean Research</i> , 1983 , 5, 30-37	3.4	82
212	Tsunami hazard and early warning system in South China Sea. <i>Journal of Asian Earth Sciences</i> , 2009 , 36, 2-12	2.8	81
211	Viscous effects on transient long-wave propagation. <i>Journal of Fluid Mechanics</i> , 2004 , 520, 83-92	3.7	76
210	Linear analysis of the multi-layer model. <i>Coastal Engineering</i> , 2004 , 51, 439-454	4.8	75
209	The Flores Island tsunamis. <i>Eos</i> , 1993 , 74, 369	1.5	74
208	Tsunami source and its validation of the 2014 Iquique, Chile, earthquake. <i>Geophysical Research Letters</i> , 2014 , 41, 3988-3994	4.9	69
207	Damping of Water Waves Over Porous Bed. <i>Journal of Hydraulic Engineering</i> , 1973 , 99, 2263-2271		69
206	Field Survey and Numerical Simulations: A Review of the 1998 Papua New Guinea Tsunami. <i>Pure and Applied Geophysics</i> , 2003 , 160, 2119-2146	2.2	68
205	Experimental investigation of turbulence generated by breaking waves in water of intermediate depth. <i>Physics of Fluids</i> , 1999 , 11, 3390-3400	4.4	68
204	Coherent structures in wave boundary layers. Part 2. Solitary motion. <i>Journal of Fluid Mechanics</i> , 2010 , 646, 207-231	3.7	67
203	Numerical modeling of the initial stages of dam-break waves. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2004 , 42, 183-195	1.9	65

202	Analytical solutions for forced long waves on a sloping beach. <i>Journal of Fluid Mechanics</i> , 2003 , 478, 101-109	3.7	65
201	Interactions of currents and weakly nonlinear water waves in shallow water. <i>Journal of Fluid Mechanics</i> , 1989 , 205, 397	3.7	61
200	Wave-Induced Pore Water Pressure Accumulation in Marine Soils. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 1989 , 111, 1-11	1.5	61
199	Long waves through emergent coastal vegetation. <i>Journal of Fluid Mechanics</i> , 2011 , 687, 461-491	3.7	60
198	Nonlinear diffusive surface waves in porous media. <i>Journal of Fluid Mechanics</i> , 1997 , 347, 119-139	3.7	60
197	Unsteady flow in confined aquifers: A comparison of two boundary integral methods. <i>Water Resources Research</i> , 1979 , 15, 861-866	5.4	60
196	Vortex generation and evolution in water waves propagating over a submerged rectangular obstacle. <i>Coastal Engineering</i> , 2005 , 52, 257-283	4.8	58
195	SEISMOLOGY: Enhanced: Tsunamigenic Sea-Floor Deformations. <i>Science</i> , 1997 , 278, 598-600	33.3	57
194	NUMERICAL SIMULATIONS OF THE 2004 INDIAN OCEAN TSUNAMIS [COASTAL EFFECTS]. <i>Journal of Earthquake and Tsunami</i> , 2007 , 01, 273-297	1.1	57
193	Harbour excitations by incident wave groups. <i>Journal of Fluid Mechanics</i> , 1990 , 217, 595-613	3.7	55
192	A two-dimensional, depth-integrated model for internal wave propagation over variable bathymetry. <i>Wave Motion</i> , 2002 , 36, 221-240	1.8	53
191	Wave propagation modeling in coastal engineering. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2002 , 40, 229-240	1.9	53
190	Boundary integral equation solutions to moving interface between two fluids in porous media. <i>Water Resources Research</i> , 1981 , 17, 1445-1452	5.4	53
189	Insights on the 2009 South Pacific tsunami in Samoa and Tonga from field surveys and numerical simulations. <i>Earth-Science Reviews</i> , 2011 , 107, 66-75	10.2	51
188	Sri Lanka Field Survey after the December 2004 Indian Ocean Tsunami. <i>Earthquake Spectra</i> , 2006 , 22, 155-172	3.4	50
187	A numerical study of swash flows generated by bores. <i>Coastal Engineering</i> , 2008 , 55, 1113-1134	4.8	49
186	Boundary integral equation solutions for solitary wave generation, propagation and run-up. <i>Coastal Engineering</i> , 1983 , 7, 299-317	4.8	49
185	Toward modeling turbulent suspension of sand in the nearshore. <i>Journal of Geophysical Research</i> , 2004 , 109,		48

184	Solitary Wave Interaction with Porous Breakwaters. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2000 , 126, 314-322	1.7	47
183	A numerical study of the evolution of a solitary wave over a shelf. <i>Physics of Fluids</i> , 2001 , 13, 1660-1667	4.4	46
182	Finite-Element Model for Modified Boussinesq Equations. I: Model Development. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2004 , 130, 1-16	1.7	45
181	Plunging solitary wave and its interaction with a slender cylinder on a sloping beach. <i>Ocean Engineering</i> , 2013 , 74, 48-60	3.9	44
180	Two-phase model for sand transport in sheet flow regime. <i>Journal of Geophysical Research</i> , 2008 , 113,		43
179	Numerical solution of water-wave refraction and diffraction problems in the parabolic approximation. <i>Journal of Geophysical Research</i> , 1982 , 87, 7932		43
178	Breaking waves over a mild gravel slope: Experimental and numerical analysis. <i>Journal of Geophysical Research</i> , 2006 , 111,		42
177	Nonlinear water waves propagating over a permeable bed. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002 , 458, 1291-1322	2.4	42
176	Refraction-diffraction model for weakly nonlinear water waves. <i>Journal of Fluid Mechanics</i> , 1984 , 141, 265-274	3.7	42
175	Refraction-diffraction model for linear surface water waves. <i>Journal of Fluid Mechanics</i> , 1980 , 101, 705-720	3.7	41
174	Periodic water waves through an aquatic forest. <i>Coastal Engineering</i> , 2015 , 96, 100-117	4.8	40
173	On the runup of long waves on a plane beach. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		38
172	On long-wave propagation over a fluid-mud seabed. <i>Journal of Fluid Mechanics</i> , 2007 , 579, 467-480	3.7	38
171	Numerical Simulations of Nonlinear Short Waves Using a Multilayer Model. <i>Journal of Engineering Mechanics - ASCE</i> , 2005 , 131, 231-243	2.4	37
170	The damping of gravity water-waves due to percolation. <i>Coastal Engineering</i> , 1984 , 8, 33-49	4.8	36
169	Hydrodynamic pressures on rigid dams during earthquakes. <i>Journal of Fluid Mechanics</i> , 1986 , 165, 131	3.7	36
168	MODEL EQUATIONS FOR WAVE PROPAGATIONS FROM DEEP TO SHALLOW WATER. <i>Series on Quality, Reliability and Engineering Statistics</i> , 1995 , 125-157		35
167	Wave-current interactions on a slowly varying topography. <i>Journal of Geophysical Research</i> , 1983 , 88, 4421		35

166	Solitary Waves Incident on a Submerged Horizontal Plate. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2014 , 140, 04014009	1.7	34
165	BIEM solutions to combinations of leaky, layered, confined, unconfined, nonisotropic aquifers. <i>Water Resources Research</i> , 1981 , 17, 1431-1444	5.4	34
164	On the run-up and back-wash processes of single and double solitary waves [An experimental study. <i>Coastal Engineering</i> , 2013 , 80, 1-14	4.8	33
163	Modification of edge waves by barred-beach topography. <i>Coastal Engineering</i> , 1981 , 5, 35-49	4.8	33
162	Finite-Element Model for Modified Boussinesq Equations. II: Applications to Nonlinear Harbor Oscillations. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2004 , 130, 17-28	1.7	32
161	On weak reflection of water waves. <i>Journal of Fluid Mechanics</i> , 1983 , 131, 59	3.7	32
160	Identification of aquifer dispersivities in two-dimensional transient groundwater Contaminant transport: An optimization approach. <i>Water Resources Research</i> , 1979 , 15, 815-831	5.4	32
159	Boundary integral solutions to three-dimensional unconfined Darcy's Flow. <i>Water Resources Research</i> , 1980 , 16, 651-658	5.4	32
158	Tsunami hazard assessments with consideration of uncertain earthquake slip distribution and location. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 7252-7271	3.6	31
157	A new interface tracking method: The polygonal area mapping method. <i>Journal of Computational Physics</i> , 2008 , 227, 4063-4088	4.1	31
156	Discussion of the vertical variation of the flow across the surf zone [Coast. Eng. 45 (2002) 169-198]. <i>Coastal Engineering</i> , 2004 , 50, 161-164	4.8	31
155	Generation and evolution of edge-wave packets. <i>Physics of Fluids</i> , 1998 , 10, 1635-1657	4.4	31
154	The swash of solitary waves on a plane beach: flow evolution, bed shear stress and run-up. <i>Journal of Fluid Mechanics</i> , 2015 , 779, 556-597	3.7	30
153	Derivation of the third-order evolution equations for weakly nonlinear water waves propagating over uneven bottoms. <i>Wave Motion</i> , 1989 , 11, 41-64	1.8	30
152	Optimization Model for Ground-Water Planning. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1984 , 110, 333-347	2.8	30
151	Evolution of the turbulence structure in the surf and swash zones. <i>Journal of Fluid Mechanics</i> , 2010 , 644, 193-216	3.7	29
150	Solitary wave runup and force on a vertical barrier. <i>Journal of Fluid Mechanics</i> , 2004 , 505, 225-233	3.7	29
149	An integral equation method for the diffraction of oblique waves by an infinite cylinder. <i>International Journal for Numerical Methods in Engineering</i> , 1982 , 18, 1497-1504	2.4	28

148	Coastal landslides in Palu Bay during 2018 Sulawesi earthquake and tsunami. <i>Landslides</i> , 2020 , 17, 2085-2098	2098	27
147	Laboratory-scale swash flows generated by a non-breaking solitary wave on a steep slope. <i>Journal of Fluid Mechanics</i> , 2018 , 847, 186-227	3.7	27
146	Theoretical Solution and Applications of Ocean Bottom Pressure Induced by Seismic Seafloor Motion. <i>Geophysical Research Letters</i> , 2017 , 44, 10,272-10,281	4.9	26
145	Long-wave-induced flows in an unsaturated permeable seabed. <i>Journal of Fluid Mechanics</i> , 2007 , 586, 323-345	3.7	26
144	Coupling between two inlets: Observation and modeling. <i>Journal of Geophysical Research</i> , 2003 , 108,		26
143	Probabilistic Tsunami Hazard Assessment in South China Sea With Consideration of Uncertain Earthquake Characteristics. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 658-688	3.6	26
142	Numerical Simulations of Wave Generation by a Vertical Plunger Using RANS and SPH Models. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2008 , 134, 143-159	1.7	25
141	Resonant reflection of water waves in a long channel with corrugated boundaries. <i>Journal of Fluid Mechanics</i> , 1987 , 179, 371-381	3.7	25
140	Responses of Bingham-plastic muddy seabed to a surface solitary wave. <i>Journal of Fluid Mechanics</i> , 2009 , 618, 155-180	3.7	24
139	Long-Wave Runup Models 1997 ,		24
138	Schmidt number and near-bed boundary condition effects on a two-phase dilute sediment transport model. <i>Journal of Geophysical Research</i> , 2005 , 110,		24
137	Pseudo turbulence in PIV breaking-wave measurements. <i>Experiments in Fluids</i> , 2000 , 29, 331-338	2.5	23
136	A note on long waves induced by short-wave groups over a shelf. <i>Journal of Fluid Mechanics</i> , 1989 , 205, 163	3.7	23
135	Singularities in Darcy Flow Through Porous Media. <i>Journal of Hydraulic Engineering</i> , 1980 , 106, 977-997		23
134	INDIAN OCEAN TSUNAMI ON 26 DECEMBER 2004: NUMERICAL MODELING OF INUNDATION IN THREE CITIES ON THE SOUTH COAST OF SRI LANKA. <i>Journal of Earthquake and Tsunami</i> , 2008 , 02, 133-155	1.1	22
133	Turbulent boundary-layer effects on transient wave propagation in shallow water. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 3481-3491	2.4	22
132	A Petrov-Galerkin finite element model for one-dimensional fully non-linear and weakly dispersive wave propagation. <i>International Journal for Numerical Methods in Fluids</i> , 2001 , 37, 541-575	1.9	22
131	Wave-induced boundary layer flows above and in a permeable bed. <i>Journal of Fluid Mechanics</i> , 1996 , 325, 195-218	3.7	21

130	Boundary integral equation solution to axisymmetric potential flows: 1. Basic formulation. <i>Water Resources Research</i> , 1979 , 15, 1102-1106	5.4	21
129	An efficient numerical method of two-dimensional steady groundwater problems. <i>Water Resources Research</i> , 1978 , 14, 385-390	5.4	21
128	Sensitivity Analysis of Source Parameters for Earthquake-Generated Distant Tsunamis. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2007 , 133, 429-441	1.7	20
127	Laboratory experiments for wave motions and turbulence flows in front of a breakwater. <i>Coastal Engineering</i> , 2001 , 44, 117-139	4.8	20
126	An operator-splitting algorithm for two-dimensional convection-dispersion-reaction problems. <i>International Journal for Numerical Methods in Engineering</i> , 1989 , 28, 1023-1040	2.4	20
125	Mass transport in three-dimensional water waves. <i>Journal of Fluid Mechanics</i> , 1991 , 231, 417-437	3.7	20
124	The unified Kadomtsev-Petviashvili equation for interfacial waves. <i>Journal of Fluid Mechanics</i> , 1995 , 288, 383-408	3.7	19
123	Resonant reflection of shallow-water waves due to corrugated boundaries. <i>Journal of Fluid Mechanics</i> , 1987 , 180, 451	3.7	19
122	Oscillatory pipe flows of a yield-stress fluid. <i>Journal of Fluid Mechanics</i> , 2010 , 658, 211-228	3.7	18
121	A note on the effects of a thin visco-elastic mud layer on small amplitude water-wave propagation. <i>Coastal Engineering</i> , 2007 , 54, 233-247	4.8	18
120	On interfacial waves over random topography. <i>Wave Motion</i> , 1996 , 24, 169-184	1.8	18
119	Parameterization of near-bed processes under collinear wave and current flows from a two-phase sheet flow model. <i>Continental Shelf Research</i> , 2010 , 30, 1403-1416	2.4	17
118	An insitu borescopic quantitative imaging profiler for the measurement of high concentration sediment velocity. <i>Experiments in Fluids</i> , 2010 , 49, 77-88	2.5	17
117	Boundary integral equation solution to axisymmetric potential flows: 2. Recharge and well problems in porous media. <i>Water Resources Research</i> , 1979 , 15, 1107-1115	5.4	17
116	Characteristics of Leading Tsunami Waves Generated in Three Recent Tsunami Events. <i>Journal of Earthquake and Tsunami</i> , 2014 , 08, 1440001	1.1	16
115	Edge waves generated by the landslide on a sloping beach. <i>Coastal Engineering</i> , 2013 , 73, 133-150	4.8	16
114	On the analytical solutions for water waves generated by a prescribed landslide. <i>Journal of Fluid Mechanics</i> , 2017 , 821, 85-116	3.7	15
113	An explicit finite difference model for simulating weakly nonlinear and weakly dispersive waves over slowly varying water depth. <i>Coastal Engineering</i> , 2011 , 58, 173-183	4.8	15

112	Viscous flows in a muddy seabed induced by a solitary wave. <i>Journal of Fluid Mechanics</i> , 2008 , 598, 383-397	3.7	15
111	An operator splitting algorithm for coupled one-dimensional advection-diffusion-reaction equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1995 , 127, 181-201	5.7	15
110	Mass transport in water waves propagated over a permeable bed. <i>Coastal Engineering</i> , 1977 , 1, 79-96	4.8	15
109	Applications of boundary integral equation methods for two-dimensional non-linear water wave problems. <i>International Journal for Numerical Methods in Fluids</i> , 1992 , 15, 1119-1141	1.9	14
108	Mass transport in two-dimensional water waves. <i>Journal of Fluid Mechanics</i> , 1991 , 231, 395-415	3.7	14
107	On gravity waves propagated over a layered permeable bed. <i>Coastal Engineering</i> , 1977 , 1, 135-148	4.8	14
106	Integral Equation Method for linear Water Waves. <i>Journal of Hydraulic Engineering</i> , 1980 , 106, 1995-2010		14
105	A model for obliquely incident wave interacting with a multi-layered object. <i>Applied Ocean Research</i> , 2019 , 87, 211-222	3.4	13
104	An experimental study of the interaction of two successive solitary waves in the swash: A strongly interacting case and a weakly interacting case. <i>Coastal Engineering</i> , 2015 , 105, 66-74	4.8	13
103	Direct measurements of local bed shear stress in the presence of pressure gradients. <i>Experiments in Fluids</i> , 2014 , 55, 1	2.5	13
102	Predictions of vertical sediment flux in oscillatory flows using a two-phase, sheet-flow model. <i>Advances in Water Resources</i> , 2012 , 48, 2-17	4.7	13
101	Fully Nonlinear Model for Water Wave Propagation from Deep to Shallow Waters. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2012 , 138, 362-371	1.7	13
100	Large-scale edge waves generated by a moving atmospheric pressure. <i>Theoretical and Applied Mechanics Letters</i> , 2012 , 2, 042001	1.8	13
99	Numerical analyses of operator-splitting algorithms for the two-dimensional advection-diffusion equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998 , 152, 337-359	5.7	13
98	A note on Hamiltonian for long water waves in varying depth. <i>Wave Motion</i> , 1994 , 20, 359-370	1.8	13
97	Propagation and trapping of obliquely incident wave groups over a trench with currents. <i>Applied Ocean Research</i> , 1992 , 14, 201-213	3.4	13
96	An ISPH with k ϵ closure for simulating turbulence under solitary waves. <i>Coastal Engineering</i> , 2020 , 157, 103657	4.8	12
95	A unified coupled-mode method for wave scattering by rectangular-shaped objects. <i>Applied Ocean Research</i> , 2018 , 79, 88-100	3.4	12

94	A multi-layer model for nonlinear internal wave propagation in shallow water. <i>Journal of Fluid Mechanics</i> , 2012 , 695, 341-365	3.7	12
93	Mass transport of interfacial waves in a two-layer fluid system. <i>Journal of Fluid Mechanics</i> , 1995 , 297, 231-254	3.7	12
92	Numerical modelling of wave propagation using parabolic approximation with a boundary-fitted co-ordinate system. <i>International Journal for Numerical Methods in Engineering</i> , 1989 , 27, 37-55	2.4	12
91	Boundary Integral Solutions of Water Wave Problems. <i>Journal of Hydraulic Engineering</i> , 1982 , 108, 921-931		12
90	Periodic water waves through a heterogeneous coastal forest of arbitrary shape. <i>Coastal Engineering</i> , 2017 , 122, 141-157	4.8	11
89	The 2018 Mw7.5 Palu Supershear Earthquake ruptures geological fault's multi-segment separated by large bends: Results from integrating field measurements, LiDAR, swath bathymetry, and seismic-reflection data. <i>Geophysical Journal International</i> , 2020 ,	2.6	11
88	Intermediate dirichlet boundary conditions for operator splitting algorithms for the advection-diffusion equation. <i>Computers and Fluids</i> , 1995 , 24, 447-458	2.8	11
87	Bragg reflection of infragravity waves by sandbars. <i>Journal of Geophysical Research</i> , 1993 , 98, 22733		11
86	Transmission of oblique waves through submerged apertures. <i>Applied Ocean Research</i> , 1986 , 8, 144-150	3.4	11
85	Modeling transient long waves propagating through a heterogeneous coastal forest of arbitrary shape. <i>Coastal Engineering</i> , 2017 , 122, 124-140	4.8	10
84	HyPAM: A hybrid continuum-particle model for incompressible free-surface flows. <i>Journal of Computational Physics</i> , 2009 , 228, 1312-1342	4.1	10
83	Three dimensional numerical simulations for non-breaking solitary wave interacting with a group of slender vertical cylinders. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2009 , 1, 20-28	2.3	10
82	Analytical simulation of edge waves observed around the Balearic Islands. <i>Geophysical Research Letters</i> , 2002 , 29, 28-1-28-4	4.9	10
81	Mass transport under partially reflected waves in a rectangular channel. <i>Journal of Fluid Mechanics</i> , 1994 , 266, 121-145	3.7	10
80	Long-Wave Generation Due to the Refraction of Short-Wave Groups over a Shear Current. <i>Journal of Physical Oceanography</i> , 1990 , 20, 53-59	2.4	10
79	Interactions of obliquely incident water waves with two vertical obstacles. <i>Applied Ocean Research</i> , 1988 , 10, 66-73	3.4	10
78	Physical and numerical modelling of tsunami generation by a moving obstacle at the bottom boundary. <i>Environmental Fluid Mechanics</i> , 2017 , 17, 929-958	2.2	9
77	Edge waves generated by atmospheric pressure disturbances moving along a shoreline on a sloping beach. <i>Coastal Engineering</i> , 2014 , 85, 43-59	4.8	9

76	Contact line dynamics and boundary layer flow during reflection of a solitary wave. <i>Journal of Fluid Mechanics</i> , 2012 , 707, 307-330	3.7	9
75	Stem waves along a depth discontinuity. <i>Journal of Geophysical Research</i> , 1986 , 91, 3979		9
74	An asymptotic theory of combined wave refraction and diffraction. <i>Applied Ocean Research</i> , 1979 , 1, 137-146	3.4	9
73	Numerical modeling of the initial stages of dam-break waves		9
72	Analytical solutions for estimating tsunami propagation speeds. <i>Coastal Engineering</i> , 2016 , 117, 44-56	4.8	8
71	Solid landslide generated waves. <i>Journal of Fluid Mechanics</i> , 2011 , 675, 529-539	3.7	8
70	An operator splitting algorithm for the three-dimensional advection-diffusion equation. <i>International Journal for Numerical Methods in Fluids</i> , 1998 , 28, 461-476	1.9	8
69	A generalized modified Kadomtsev-Petviashvili equation for interfacial wave propagation near the critical depth level. <i>Wave Motion</i> , 1998 , 27, 321-339	1.8	8
68	Field Survey and Numerical Simulations: A Review of the 1998 Papua New Guinea Tsunami 2003 , 2119-2146		8
67	FREE SURFACE TRACKING METHODS AND THEIR APPLICATIONS TO WAVE HYDRODYNAMICS. <i>Series on Quality, Reliability and Engineering Statistics</i> , 1999 , 213-240		8
66	Second-order low-frequency wave forces on a vertical circular cylinder. <i>Journal of Fluid Mechanics</i> , 1987 , 175, 143	3.7	8
65	Unsteady interzonal free surface flow in porous media. <i>Water Resources Research</i> , 1979 , 15, 240-246	5.4	8
64	A perturbation solution for a nonlinear diffusion equation. <i>Water Resources Research</i> , 1976 , 12, 1235-1240	5.4	8
63	Surface water waves propagating over a submerged forest. <i>Coastal Engineering</i> , 2019 , 152, 103510	4.8	7
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