

Peng-zhi Lin

List of Publications by Year in descending order

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98
papers

4,695
citations

147566

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all docs

103
docs citations

103
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling of air entrainment by turbulent plunging jet and aerated flow in the plunging pool. <i>Environmental Fluid Mechanics</i> , 2022, 22, 33-53.	0.7	4
2	Resonant sloshing in a rectangular tank under coupled heave and surge excitations. <i>Applied Ocean Research</i> , 2022, 121, 103076.	1.8	9
3	Eulerian and Lagrangian transport by shallow-water breaking waves. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
4	Joint exploitation potential of offshore wind and wave energy along the south and southeast coasts of China. <i>Energy</i> , 2022, 249, 123710.	4.5	20
5	A wave damping model for flexible marsh plants with leaves considering linear to weakly nonlinear wave conditions. <i>Coastal Engineering</i> , 2022, 175, 104124.	1.7	7
6	Depth-resolved numerical model of dam break mud flows with Herschel-Bulkley rheology. <i>Journal of Mountain Science</i> , 2022, 19, 1001-1017.	0.8	4
7	Interface instabilities in Faraday waves of two-layer liquids with free surface. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	1.4	16
8	Pitch motion reduction of semisubmersible floating offshore wind turbine substructure using a tuned liquid multicolumn damper. <i>Marine Structures</i> , 2022, 84, 103237.	1.6	18
9	An experimental study of two-layer liquid sloshing under pitch excitations. <i>Physics of Fluids</i> , 2022, 34, .	1.6	14
10	Exploitation potential of tidal current energy in Southern China seas. <i>Energy Conversion and Management</i> , 2022, 267, 115901.	4.4	8
11	Experimental and numerical study of nonlinear modal characteristics of Faraday waves. <i>Ocean Engineering</i> , 2021, 221, 108554.	1.9	6
12	Numerical simulation of two-layered liquid sloshing in tanks under horizontal excitations. <i>Ocean Engineering</i> , 2021, 224, 108768.	1.9	23
13	Numerical modeling and formulation of the runup of seismically-induced surge waves in idealized reservoirs. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 143, 106625.	1.9	5
14	Effect of vertical velocity profile approximations on estimates of dam breach discharge using surface velocities. <i>Journal of Flood Risk Management</i> , 2021, 14, e12709.	1.6	3
15	Assessment of long-term offshore wind energy potential in the south and southeast coasts of China based on a 55-year dataset. <i>Energy</i> , 2021, 224, 120225.	4.5	39
16	Combining methodologies on the impact of inter and intra-annual variation of wave energy on selection of suitable location and technology. <i>Renewable Energy</i> , 2021, 172, 697-713.	4.3	15
17	Particle methods in ocean and coastal engineering. <i>Applied Ocean Research</i> , 2021, 114, 102734.	1.8	174
18	Numerical and experimental studies of turbulence in vegetated open-channel flows. <i>Environmental Fluid Mechanics</i> , 2021, 21, 1137-1163.	0.7	4

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19	Sloshing dynamics in cylindrical tank with porous layer under harmonic and seismic excitations. <i>Ocean Engineering</i> , 2021, 235, 109373.	1.9	15
20	A simple wave damping model for flexible marsh plants. <i>Limnology and Oceanography</i> , 2021, 66, 4182-4196.	1.6	10
21	Experimental study of freak wave impacts on a tension-leg platform. <i>Marine Structures</i> , 2020, 74, 102821.	1.6	15
22	A Cartesian cut-cell based multiphase flow model for large-eddy simulation of three-dimensional wave-structure interaction. <i>Computers and Fluids</i> , 2020, 213, 104747.	1.3	22
23	Wave Attenuation by <i>Spartina alterniflora</i> under Macro-Tidal and Storm Surge Conditions. <i>Wetlands</i> , 2020, 40, 2151-2162.	0.7	28
24	Experimental Study of Turbulence and Entrained Air Characteristics in a Plunging Breaking Solitary Wave. <i>International Journal of Ocean and Coastal Engineering</i> , 2020, 03, .	0.3	4
25	Sustainability of wave energy resources in the South China Sea based on five decades of changing climate. <i>Energy</i> , 2020, 210, 118604.	4.5	20
26	Experimental and numerical study of wave-current interactions with a dumbbell-shaped bridge cofferdam. <i>Ocean Engineering</i> , 2020, 210, 107433.	1.9	14
27	Bloch band gap of shallow-water waves over infinite arrays of parabolic bars and rectified cosinoidal bars and Bragg resonance over finite arrays of bars. <i>Ocean Engineering</i> , 2019, 188, 106235.	1.9	14
28	Numerical and experimental analysis of shallow turbulent flow over complex roughness beds. <i>International Journal of Computational Fluid Dynamics</i> , 2019, 33, 202-221.	0.5	4
29	Cylindrical Smoothed Particle Hydrodynamics Simulations of Water Entry. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	24
30	Analytical study of Bragg resonance by singly periodic sinusoidal ripples based on the modified mild-slope equation. <i>Coastal Engineering</i> , 2019, 150, 121-134.	1.7	34
31	Consistent Particle Method simulation of solitary wave impinging on and overtopping a seawall. <i>Engineering Analysis With Boundary Elements</i> , 2019, 103, 160-171.	2.0	33
32	Consistent Particle Method Simulation of Solitary Wave Interaction with a Submerged Breakwater. <i>Water (Switzerland)</i> , 2019, 11, 261.	1.2	11
33	Bayesian network of risk assessment for a super-large dam exposed to multiple natural risk sources. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 581-592.	1.9	19
34	Vortex-induced vibration and mode transition of a curved flexible free-hanging cylinder in exponential shear flows. <i>Journal of Fluids and Structures</i> , 2019, 84, 56-76.	1.5	39
35	Viscous effects on liquid sloshing under external excitations. <i>Ocean Engineering</i> , 2019, 171, 695-707.	1.9	25
36	A partial cell technique for modeling the morphological change and scour. <i>Coastal Engineering</i> , 2018, 131, 88-105.	1.7	14

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37	The Numerical Modeling of Coupled Motions of a Moored Floating Body in Waves. Water (Switzerland), 2018, 10, 1748.	1.2	4
38	3D Numerical Study of the Flow Properties in a Double-Spur Dikes Field during a Flood Process. Water (Switzerland), 2018, 10, 1574.	1.2	3
39	Numerical Simulation of the Vortex-Induced Vibration of A Curved Flexible Riser in Shear Flow. China Ocean Engineering, 2018, 32, 301-311.	0.6	8
40	Bed shear stress and turbulence characteristics under unsteady flows. Journal of Hydro-Environment Research, 2018, 21, 1-20.	1.0	2
41	The Total Risk Analysis of Large Dams under Flood Hazards. Water (Switzerland), 2018, 10, 140.	1.2	19
42	Two-phase smooth particle hydrodynamics modeling of air-water interface in aerated flows. Science China Technological Sciences, 2017, 60, 479-490.	2.0	9
43	Experimental study on vertical baffles of different configurations in suppressing sloshing pressure. Ocean Engineering, 2017, 136, 178-189.	1.9	152
44	Numerical simulation of submarine landslide tsunamis using particle based methods. Journal of Hydrodynamics, 2017, 29, 542-551.	1.3	22
45	Violent transient sloshing-wave interaction with a baffle in a three-dimensional numerical tank. Journal of Ocean University of China, 2017, 16, 661-673.	0.6	18
46	A new two-step projection method in an ISPH model for free surface flow computations. Coastal Engineering, 2017, 127, 68-79.	1.7	12
47	An experimental investigation of vortex-induced vibration of a curved flexible pipe in shear flows. Ocean Engineering, 2016, 121, 62-75.	1.9	53
48	A two-phase flow model for wave-structure interaction using a virtual boundary force method. Computers and Fluids, 2016, 129, 101-110.	1.3	20
49	An improved SWE model for simulation of dam-break flows. Water Management, 2016, 169, 260-274.	0.4	8
50	The simulation of a landslide-induced surge wave and its overtopping of a dam using a coupled ISPH model. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 432-444.	1.5	19
51	Numerical modeling of oscillatory turbulent boundary layer flows and sediment suspension. Journal of Ocean Engineering and Marine Energy, 2015, 1, 133-144.	0.9	3
52	Numerical simulation of wave interaction with vertical circular cylinders of different submergences using immersed boundary method. Computers and Fluids, 2015, 106, 41-53.	1.3	22
53	ISPH wave simulation by using an internal wave maker. Coastal Engineering, 2015, 95, 160-170.	1.7	48
54	Three-dimensional numerical simulation of solitary wave run-up using the IB method. Coastal Engineering, 2014, 84, 38-55.	1.7	29

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55	An ISPH simulation of coupled structure interaction with free surface flows. <i>Journal of Fluids and Structures</i> , 2014, 48, 46-61.	1.5	80
56	An improved incompressible SPH model for simulation of wave-structure interaction. <i>Computers and Fluids</i> , 2013, 71, 113-123.	1.3	85
57	Generation of 3D regular and irregular waves using Navier-Stokes equations model with an internal wave maker. <i>Coastal Engineering</i> , 2013, 76, 55-67.	1.7	52
58	Effects of perforated baffle on reducing sloshing in rectangular tank: Experimental and numerical study. <i>China Ocean Engineering</i> , 2013, 27, 615-628.	0.6	68
59	Scale effects of incipient cavitation for high-speed flows. <i>Water Management</i> , 2013, 166, 402-408.	0.4	3
60	Analytical Solution for Long-Wave Reflection by a General Breakwater or Trench with Curvilinear Slopes. <i>Journal of Engineering Mechanics - ASCE</i> , 2013, 139, 229-245.	1.6	27
61	Permeability effects of single groin on flow characteristics by JOONGLU KANG, HONGKOO YEO, SUNGJUNG KIM and UN JI. <i>Hydraulic Res.</i> 49(6), 2011, pp. 728-735. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013, 51, 102-102.	0.7	1
62	Numerical Simulation of Sloshing Phenomena in Cubic Tank with Multiple Baffles. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-21.	0.4	25
63	Numerical Simulation of Propagation and Breaking Processes of a Focused Waves Group. <i>Journal of Hydrodynamics</i> , 2012, 24, 399-409.	1.3	4
64	Analytical Solution for Long-Wave Reflection by a Rectangular Obstacle with Two Scour Trenches. <i>Journal of Engineering Mechanics - ASCE</i> , 2011, 137, 919-930.	1.6	43
65	Numerical study of ring baffle effects on reducing violent liquid sloshing. <i>Computers and Fluids</i> , 2011, 52, 116-129.	1.3	127
66	Wave-current interaction at an angle 1: experiment. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 424-436.	0.7	14
67	Wave-current interaction at an angle 2: theory. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 437-449.	0.7	1
68	A NUMERICAL STUDY OF DAM-BREAK FLOW AND SEDIMENT TRANSPORT FROM A QUAKE LAKE. <i>Journal of Earthquake and Tsunami</i> , 2011, 05, 401-428.	0.7	15
69	Three-dimensional liquid sloshing in a tank with baffles. <i>Ocean Engineering</i> , 2009, 36, 202-212.	1.9	201
70	Calculation of hydrodynamic forces acting on a submerged moving object using immersed boundary method. <i>Computers and Fluids</i> , 2009, 38, 691-702.	1.3	68
71	PREDICTING RUN-UP OF BREAKING AND NONBREAKING LONG WAVES BY APPLYING THE CORNELL COMCOT MODEL. , 2009, , 147-163.		1
72	Numerical study of combined overflow and wave overtopping over a smooth impermeable seawall. <i>Coastal Engineering</i> , 2008, 55, 155-166.	1.7	72

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73	A numerical study of three-dimensional liquid sloshing in tanks. Journal of Computational Physics, 2008, 227, 3921-3939.	1.9	286
74	Numerical simulation of wave-induced laminar boundary layers. Coastal Engineering, 2008, 55, 400-408.	1.7	15
75	An Analytic Solution for Wave Scattering by a Circular Cylinder Mounted on a Conical Shoal. Coastal Engineering Journal, 2007, 49, 393-416.	0.7	16
76	Numerical Study of Solitary Wave Interaction with Porous Breakwaters. Journal of Waterway, Port, Coastal and Ocean Engineering, 2007, 133, 352-363.	0.5	67
77	Scattering and Trapping of Wave Energy by a Submerged Truncated Paraboloidal Shoal. Journal of Waterway, Port, Coastal and Ocean Engineering, 2007, 133, 94-103.	0.5	22
78	A fixed-grid model for simulation of a moving body in free surface flows. Computers and Fluids, 2007, 36, 549-561.	1.3	114
79	NEWFLUME: a numerical water flume for two-dimensional turbulent free surface flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 79-93.	0.7	39
80	A multiple-layer η -coordinate model for simulation of wave-structure interaction. Computers and Fluids, 2006, 35, 147-167.	1.3	52
81	Numerical modelling of 3D stratified free surface flows: a case study of sediment dumping. International Journal for Numerical Methods in Fluids, 2006, 50, 1425-1444.	0.9	5
82	MODELING 3D FLUID SLOSHING USING LEVEL SET METHOD. Modern Physics Letters B, 2005, 19, 1743-1746.	1.0	1
83	A compact numerical algorithm for solving the time-dependent mild slope equation. International Journal for Numerical Methods in Fluids, 2004, 45, 625-642.	0.9	11
84	Discussion of "Vertical variation of the flow across the surf zone" [Coast. Eng. 45 (2002) 169-198]. Coastal Engineering, 2004, 50, 161-164.	1.7	32
85	A numerical study of solitary wave interaction with rectangular obstacles. Coastal Engineering, 2004, 51, 35-51.	1.7	105
86	An analytical solution of the mild-slope equation for waves around a circular island on a paraboloidal shoal. Coastal Engineering, 2004, 51, 421-437.	1.7	49
87	An analytic solution of the mild-slope equation for scattering by a truncated conical shoal. , 2004, , .		1
88	Wave-current interaction with a vertical square cylinder. Ocean Engineering, 2003, 30, 855-876.	1.9	51
89	TRANSMISSION AND REFLECTION OF SOLITARY WAVES OVER STRUCTURES: A NUMERICAL WAVE TANK (NWT) APPROACH. , 2003, , .		0
90	A η -coordinate three-dimensional numerical model for surface wave propagation. International Journal for Numerical Methods in Fluids, 2002, 38, 1045-1068.	0.9	163

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91	PREDICTION OF SEDIMENT DISCHARGE IN RIVERS, ESTUARIES AND COASTAL WATERS. , 2002, , .		0
92	THE NEW DEPTH-AVERAGED EQUATIONS FOR WAVE PROPAGATION IN DEEP AND SHALLOW WATER. , 2002, , .		0
93	A numerical study of three-dimensional wave interaction with a square cylinder. Ocean Engineering, 2001, 28, 1545-1555.	1.9	24
94	Numerical Modeling of Wave Interaction with Porous Structures. Journal of Waterway, Port, Coastal and Ocean Engineering, 1999, 125, 322-330.	0.5	318
95	Internal Wave-Maker for Navier-Stokes Equations Models. Journal of Waterway, Port, Coastal and Ocean Engineering, 1999, 125, 207-215.	0.5	243
96	Runup and Rundown of Solitary Waves on Sloping Beaches. Journal of Waterway, Port, Coastal and Ocean Engineering, 1999, 125, 247-255.	0.5	112
97	Turbulence transport, vorticity dynamics, and solute mixing under plunging breaking waves in surf zone. Journal of Geophysical Research, 1998, 103, 15677-15694.	3.3	146
98	A numerical study of breaking waves in the surf zone. Journal of Fluid Mechanics, 1998, 359, 239-264.	1.4	710