

Ji-Sheng Zhang

List of Publications by Year in descending order

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69
papers

1,072
citations

471509

17
h-index

454955

30
g-index

69
all docs

69
docs citations

69
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of wave-induced seabed response around twin pipelines in sandy seabed through laboratory experiments and numerical simulations. <i>Ocean Engineering</i> , 2022, 244, 110344.	4.3	9
2	Influence of blade numbers on start-up performance of vertical axis tidal current turbines. <i>Ocean Engineering</i> , 2022, 243, 110314.	4.3	12
3	Wave induced silty seabed response around a trenched pipeline. <i>Ocean Engineering</i> , 2022, 245, 110527.	4.3	6
4	Numerical Simulation and Analysis of Storm Surges Under Different Extreme Weather Event and Typhoon Experiments in the South Yellow Sea. <i>Journal of Ocean University of China</i> , 2022, 21, 1-14.	1.2	7
5	Interactions between tidal stream turbine arrays and their hydrodynamic impact around Zhoushan Island, China. <i>Ocean Engineering</i> , 2022, 246, 110431.	4.3	4
6	Experimental Investigation of the Response of Monopiles in Silty Seabed to Regular Wave Action. <i>China Ocean Engineering</i> , 2022, 36, 112-122.	1.6	0
7	Influence of Swept Blades on the Performance and Hydrodynamic Characteristics of a Bidirectional Horizontal-Axis Tidal Turbine. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 365.	2.6	2
8	Experimental investigation on wake and thrust characteristics of a twin-rotor horizontal axis tidal stream turbine. <i>Renewable Energy</i> , 2022, 195, 701-715.	8.9	10
9	Dynamic vertical and rocking impedances of a strip foundation in offshore engineering. <i>Marine Georesources and Geotechnology</i> , 2021, 39, 832-841.	2.1	3
10	Experimental investigation into effects of boundary proximity and blockage on horizontal-axis tidal turbine wake. <i>Ocean Engineering</i> , 2021, 225, 108829.	4.3	34
11	Energy extraction performance of a flapping wing with active elastic airbag deformation at the leading edge. <i>Ocean Engineering</i> , 2021, 228, 108901.	4.3	7
12	The influence of waves propagating with the current on the wake of a tidal stream turbine. <i>Applied Energy</i> , 2021, 290, 116729.	10.1	79
13	Experimental investigation of a triple pontoon wave energy converter and breakwater hybrid system. <i>IET Renewable Power Generation</i> , 2021, 15, 3151-3164.	3.1	3
14	Experimental study of the wake homogeneity evolution behind a horizontal axis tidal stream turbine. <i>Applied Ocean Research</i> , 2021, 111, 102644.	4.1	11
15	Numerical Study of Performance of Horizontal-Axis Tidal Turbine with Different Configurations. , 2021, , .		0
16	Flow structures in wake of a pile-supported horizontal axis tidal stream turbine. <i>Renewable Energy</i> , 2020, 147, 2321-2334.	8.9	17
17	Investigation of array layout of tidal stream turbines on energy extraction efficiency. <i>Ocean Engineering</i> , 2020, 196, 106775.	4.3	16
18	Hydrodynamic Performance of a Hybrid System Combining a Fixed Breakwater and a Wave Energy Converter: An Experimental Study. <i>Energies</i> , 2020, 13, 5740.	3.1	6

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19	Modelling study of wave damping over a sandy and a silty bed. Coastal Engineering, 2020, 161, 103756.	4.0	9
20	Coastal Geohazard and Offshore Geotechnics. Journal of Marine Science and Engineering, 2020, 8, 1011.	2.6	1
21	Experimental investigation into downstream field of a horizontal axis tidal stream turbine supported by a mono pile. Applied Ocean Research, 2020, 101, 102257.	4.1	50
22	A Review on Numerical Development of Tidal Stream Turbine Performance and Wake Prediction. IEEE Access, 2020, 8, 79325-79337.	4.2	30
23	Wake Characteristics of a Tidal Stream Turbine under Combined Wave and Current. Journal of Coastal Research, 2020, 95, 1558.	0.3	0
24	A laboratory study of class III Bragg resonance of gravity surface waves by periodic beds. Physics of Fluids, 2019, 31, .	4.0	14
25	A 3D numerical analysis of wave-induced seabed response around a monopile structure. Geomechanics and Geoengineering, 2019, , 1-21.	1.8	4
26	3-Dimensional numerical study of wave-induced seabed response around three different types of wind turbine pile foundations. SN Applied Sciences, 2019, 1, 1.	2.9	6
27	Laboratory experimental study of ocean waves propagating over a partially buried pipeline in a trench layer. Ocean Engineering, 2019, 173, 617-627.	4.3	42
28	Dynamic Impedances of Offshore Rock-Socketed Monopiles. Journal of Marine Science and Engineering, 2019, 7, 134.	2.6	14
29	Two-dimensional model of wave-induced response of seabed around permeable submerged breakwater. Advances in Mechanical Engineering, 2019, 11, 168781401983080.	1.6	3
30	Comparison of Actuator Line Method and Full Rotor Geometry Simulations of the Wake Field of a Tidal Stream Turbine. Water (Switzerland), 2019, 11, 560.	2.7	9
31	Experiments on the mean and integral characteristics of tidal turbine wake in the linear waves propagating with the current. Ocean Engineering, 2019, 173, 1-11.	4.3	32
32	Physical Model of wave-induced seabed response around trenched pipeline in sandy seabed. Applied Ocean Research, 2018, 75, 37-52.	4.1	18
33	Parametric modeling of three-dimensional geometry of warp-knitted loop based on variation of process parameters. Journal of the Textile Institute, 2018, 109, 1193-1201.	1.9	3
34	Numerical study of hydrodynamic mechanism of dynamic tidal power. Water Science and Engineering, 2018, 11, 220-228.	3.2	6
35	Wave tank experiments on the power capture of a float-type wave energy device with a breakwater. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	3
36	Coastal Hazards Caused by Different Extreme Storms in the Bohai Sea, China. Journal of Coastal Research, 2018, 85, 816-820.	0.3	0

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37	Experimental study on soil response and wave attenuation in a silt bed. <i>Ocean Engineering</i> , 2018, 160, 105-118.	4.3	22
38	Investigation of nonlinear wave-induced seabed response around mono-pile foundation. <i>Coastal Engineering</i> , 2017, 121, 197-211.	4.0	94
39	Using the Elastic Vertical Vibration of a Rigid Caisson at Low Frequencies to Stabilize the Foundation of Coastal Engineering Structures. <i>Journal of Coastal Research</i> , 2017, 33, 989-996.	0.3	1
40	Consolidation of unsaturated seabed around an inserted pile foundation and its effects on the wave-induced momentary liquefaction. <i>Ocean Engineering</i> , 2017, 131, 308-321.	4.3	64
41	Predictions for Dynamic Tidal Power and Associated Local Hydrodynamic Impact in the Taiwan Strait, China. <i>Journal of Coastal Research</i> , 2017, 331, 149-157.	0.3	13
42	Nonredox Metal-Ions-Enhanced Dioxygen Activation by Oxidovanadium(IV) Complexes toward Hydrogen Atom Abstraction. <i>Inorganic Chemistry</i> , 2017, 56, 834-844.	4.0	28
43	Experimental study on the cyclic behavior of monopiles in fine sandy beds under regular waves. <i>China Ocean Engineering</i> , 2017, 31, 607-617.	1.6	6
44	Numerical analysis and performance optimization of a submerged wave energy converting device based on the floating breakwater. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	2.0	10
45	Nonredox Metal Ions Promoted Olefin Epoxidation by Iron(II) Complexes with H_2O_2 : DFT Calculations Reveal Multiple Channels for Oxygen Transfer. <i>Inorganic Chemistry</i> , 2017, 56, 15138-15149.	4.0	35
46	Tidal current and tidal energy changes imposed by a dynamic tidal power system in the Taiwan Strait, China. <i>Journal of Ocean University of China</i> , 2017, 16, 953-964.	1.2	5
47	Numerical hydrodynamics study around turbine array of tidal stream farm in Zhoushan, China. <i>Journal of Ocean University of China</i> , 2017, 16, 703-708.	1.2	5
48	Experimental Analysis and Evaluation of the Numerical Prediction of Wake Characteristics of Tidal Stream Turbine. <i>Energies</i> , 2017, 10, 2057.	3.1	17
49	Numerical Study on Layout Optimization of Tidal Stream Turbines in Zhoushan Demonstration Project. , 2017, , .		0
50	Experimental investigation of wave-driven pore-water pressure and wave attenuation in a sandy seabed. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401665120.	1.6	13
51	2-D integrated numerical modeling for the potential of solitary wave-induced residual liquefaction over a sloping porous seabed. <i>Journal of Ocean Engineering and Marine Energy</i> , 2016, 2, 1-18.	1.7	11
52	Three-dimensional numerical model for wave-induced seabed response around mono-pile. <i>Ships and Offshore Structures</i> , 2016, 11, 667-678.	1.9	77
53	Tidal Stream Energy in China. <i>Procedia Engineering</i> , 2015, 116, 880-887.	1.2	30
54	Potential Assessment of Tidal Stream Energy Around Hulu Island, China. <i>Procedia Engineering</i> , 2015, 116, 871-879.	1.2	18

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55	Numerical Study on Effects of the Embedded Monopile Foundation on Local Wave-Induced Porous Seabed Response. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-13.	1.1	6
56	Redox inactive metal ion triggered N-dealkylation by an iron catalyst with dioxygen activation: a lesson from lipoxygenases. <i>Dalton Transactions</i> , 2015, 44, 9847-9859.	3.3	24
57	Numerical investigation of flow motion and performance of a horizontal axis tidal turbine subjected to a steady current. <i>China Ocean Engineering</i> , 2015, 29, 209-222.	1.6	14
58	Numerical Simulation of Solitary-Wave Propagation over a Steady Current. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2015, 141, .	1.2	30
59	Scour protection of submarine pipelines using rubber plates underneath the pipes. <i>Ocean Engineering</i> , 2014, 84, 176-182.	4.3	30
60	Predictability of wave-induced net sediment transport using the conventional 1DV RANS diffusion model. <i>Geo-Marine Letters</i> , 2014, 34, 353-364.	1.1	10
61	A new model for the vibration isolation via pile rows consisting of infinite number of piles. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 2394-2426.	3.3	11
62	New Concept for Assessment of Tidal Current Energy in Jiangsu Coast, China. <i>Advances in Mechanical Engineering</i> , 2013, 5, 340501.	1.6	4
63	Numerical study on the interaction between waves and twin pipelines in sandy seabed. <i>Journal of Coastal Research</i> , 2013, 65, 428-433.	0.3	9
64	Modeling of Wave-Induced Seabed Response and Liquefaction Potential Around Pile Foundation. , 2013, , .		3
65	Three-dimensional model for wave-induced dynamic pore pressure around monopile foundation. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	4
66	Comparison of turbulence schemes for prediction of wave-induced near-bed sediment suspension above a plane bed. <i>China Ocean Engineering</i> , 2011, 25, 395-412.	1.6	5
67	An integrated model of wave-seabed-structure interactions. <i>Journal of Hydrodynamics</i> , 2010, 22, 126-131.	3.2	1
68	Relationships between warp-knitted run-in value and process parameters. <i>Journal of the Textile Institute</i> , 0, , 1-7.	1.9	1
69	Dynamic impedances of ring disks buried in arbitrary depths. <i>European Journal of Environmental and Civil Engineering</i> , 0, , 1-21.	2.1	1