

Jijian Lian

List of Publications by Citations

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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.

80
papers

895
citations

17
h-index

26
g-index

85
ext. papers

1,193
ext. citations

3.3
avg, IF

4.66
L-index

#	Paper	IF	Citations
80	Multiple flood vulnerability assessment approach based on fuzzy comprehensive evaluation method and coordinated development degree model. <i>Journal of Environmental Management</i> , 2018 , 213, 440-450	7.9	59
79	One-step-installation of offshore wind turbine on large-scale bucket-top-bearing bucket foundation. <i>Transactions of Tianjin University</i> , 2013 , 19, 188-194	2.9	52
78	Bearing capacity and technical advantages of composite bucket foundation of offshore wind turbines. <i>Transactions of Tianjin University</i> , 2011 , 17, 132-137	2.9	50
77	Design of large-scale prestressing bucket foundation for offshore wind turbines. <i>Transactions of Tianjin University</i> , 2012 , 18, 79-84	2.9	49
76	Laboratory tests on soil-structure interaction and penetration resistance of suction caissons during installation in sand. <i>Ocean Engineering</i> , 2014 , 84, 1-13	3.9	47
75	Optimal multi-axial sensor placement for modal identification of large structures. <i>Structural Control and Health Monitoring</i> , 2014 , 21, 61-79	4.5	45
74	Joint probability analysis of extreme precipitation and storm tide in a coastal city under changing environment. <i>PLoS ONE</i> , 2014 , 9, e109341	3.7	41
73	Reservoir Operation Rules for Controlling Algal Blooms in a Tributary to the Impoundment of Three Gorges Dam. <i>Water (Switzerland)</i> , 2014 , 6, 3200-3223	3	31
72	Health Monitoring and Safety Evaluation of the Offshore Wind Turbine Structure: A Review and Discussion of Future Development. <i>Sustainability</i> , 2019 , 11, 494	3.6	29
71	Vertical bearing behaviour of the composite bucket shallow foundation of offshore wind turbines. <i>Journal of Renewable and Sustainable Energy</i> , 2015 , 7, 013123	2.5	26
70	Self-Healing Concrete Using Rubber Particles to Immobilize Bacterial Spores. <i>Materials</i> , 2019 , 12,	3.5	24
69	ERA modal identification method for hydraulic structures based on order determination and noise reduction of singular entropy. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 400-412		24
68	Soil reinforcement experiment inside large-scale bucket foundation in muddy soil. <i>Transactions of Tianjin University</i> , 2012 , 18, 168-172	2.9	23
67	Compound effects of rainfall and storm tides on coastal flooding risk. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 1249-1261	3.5	19
66	Modeling the effect of temperature-control curtain on the thermal structure in a deep stratified reservoir. <i>Journal of Environmental Management</i> , 2017 , 202, 106-116	7.9	19
65	Optimal management of the flooding risk caused by the joint occurrence of extreme rainfall and high tide level in a coastal city. <i>Natural Hazards</i> , 2017 , 89, 183-200	3	18
64	A prediction method of flood discharge atomization for high dams. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014 , 52, 274-282	1.9	18

63	Flash flood vulnerability assessment for small catchments with a material flow approach. <i>Natural Hazards</i> , 2017 , 88, 699-719	3	17
62	Joint Risk of Rainfall and Storm Surges during Typhoons in a Coastal City of Haidian Island, China. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	16
61	Impact of intra-annual runoff uniformity and global warming on the thermal regime of a large reservoir. <i>Science of the Total Environment</i> , 2019 , 658, 1085-1097	10.2	15
60	Safety evaluation and the static-dynamic coupling analysis of counter-arched slab in plunge pool. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1397-1412		12
59	Water Hammer Control Analysis of an Intelligent Surge Tank with Spring Self-Adaptive Auxiliary Control System. <i>Energies</i> , 2019 , 12, 2527	3.1	11
58	Biogrouting of hydraulic fill fine sands for reclamation projects. <i>Marine Georesources and Geotechnology</i> , 2019 , 37, 212-222	2.2	11
57	Application of an Eddy Current-Tuned Mass Damper to Vibration Mitigation of Offshore Wind Turbines. <i>Energies</i> , 2018 , 11, 3319	3.1	11
56	Reliability Analysis on One-Step Overall Transportation of Composite Bucket Foundation for Offshore Wind Turbine. <i>Energies</i> , 2020 , 13, 23	3.1	10
55	Multi-Objective Sizing of Hybrid Energy Storage System for Large-Scale Photovoltaic Power Generation System. <i>Sustainability</i> , 2019 , 11, 5441	3.6	10
54	Air Entrainment and Air Demand in the Spillway Tunnel at the Jinping-I Dam. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 930	2.6	10
53	Experimental Investigation of Flow-Induced Motion and Energy Conversion of a T-Section Prism. <i>Energies</i> , 2018 , 11, 2035	3.1	10
52	An effective approach for simulating multi-support earthquake underground motions. <i>Bulletin of Earthquake Engineering</i> , 2017 , 15, 4635-4659	3.7	9
51	Effect of Cementation on Calcium Carbonate Precipitation of Loose Sand Resulting from Microbial Treatment. <i>Transactions of Tianjin University</i> , 2017 , 23, 547-554	2.9	9
50	Analysis of the Thrust Force on the Temperature-Control Curtain in a Large Stratified Reservoir. <i>Journal of Hydraulic Engineering</i> , 2017 , 143, 04017049	1.8	9
49	Water Price Prediction for Increasing Market Efficiency Using Random Forest Regression: A Case Study in the Western United States. <i>Water (Switzerland)</i> , 2019 , 11, 228	3	8
48	Analysis on Flow Induced Motion of Cylinders with Different Cross Sections and the Potential Capacity of Energy Transference from the Flow. <i>Shock and Vibration</i> , 2017 , 2017, 1-19	1.1	8
47	Multi-Source Generation Mechanisms for Low Frequency Noise Induced by Flood Discharge and Energy Dissipation from a High Dam with a Ski-Jump Type Spillway. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	8
46	An improved complex multiple-support response spectrum method for the non-classically damped linear system with coupled damping. <i>Bulletin of Earthquake Engineering</i> , 2016 , 14, 161-184	3.7	8

45	Increase and Spatial Variation in Soil Infiltration Rates Associated with Fibrous and Tap Tree Roots. <i>Water (Switzerland)</i> , 2019 , 11, 1700	3	7
44	Probabilistic analysis for the response of nonlinear base isolation system under the ground excitation induced by high dam flood discharge. <i>Earthquake Engineering and Engineering Vibration</i> , 2017 , 16, 841-857	2	7
43	Experimental Investigation on Soft Galloping and Hard Galloping of Triangular Prisms. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 198	2.6	7
42	Investigating and optimizing the water footprint in a typical coal energy and chemical base of China. <i>Science of the Total Environment</i> , 2020 , 727, 138781	10.2	6
41	Experimental and Numerical Study on the Effect of the Temperature-Control Curtain in Thermal Stratified Reservoirs. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5354	2.6	6
40	Effect of Sediment Concentration on Hydraulic Characteristics of Energy Dissipation in a Falling Turbulent Jet. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1672	2.6	6
39	A Fundamental Investigation of the Tensile Failure of Rock Using the Three-Dimensional Lattice Spring Model. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 2319-2334	5.7	5
38	Uniaxial Compressive Strength and Fracture Mode of Lake Ice at Moderate Strain Rates Based on a Digital Speckle Correlation Method for Deformation Measurement. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 495	2.6	5
37	A nonlinear viscoelastic model for bed mud transport due to waves and currents. <i>Science Bulletin</i> , 1999 , 44, 1597-1600		5
36	Experimental study of one-step overall transportation of composite bucket foundation for offshore wind turbine under the coupled dynamic action of wave and current. <i>Journal of Renewable and Sustainable Energy</i> , 2021 , 13, 035701	2.5	5
35	Generation Mechanism and Prediction Model for Low Frequency Noise Induced by Energy Dissipating Submerged Jets during Flood Discharge from a High Dam. <i>International Journal of Environmental Research and Public Health</i> , 2016 , 13,	4.6	5
34	Completeness Verification of Complex Response Spectrum Method for Underdamped and Overdamped Multiple-Support Systems Regarding the Decoupled Damping as Mathematical Parameter without Physical Meaning. <i>Journal of Earthquake Engineering</i> , 2016 , 20, 1104-1125	1.8	5
33	Study on Vibration Transmission among Units in Underground Powerhouse of a Hydropower Station. <i>Energies</i> , 2018 , 11, 3015	3.1	5
32	An Improved Empirical Model for Flood Discharge Atomization and Its Application to Optimize the Flip Bucket of the Nazixia Project. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	4
31	Effects of Bucket Type and Angle on Downstream Nappe Wind Caused by a Turbulent Jet. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	4
30	Presentation and Verification of an Optimal Operating Scheme Aiming at Reducing the Ground Vibration Induced by High Dam Flood Discharge. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	4
29	Similarity law of fluctuating pressure spectrum beneath hydraulic jump. <i>Science Bulletin</i> , 2008 , 53, 2230-2238		4
28	Multi-objective optimization of water-sedimentation-power in reservoir based on pareto-optimal solution. <i>Transactions of Tianjin University</i> , 2008 , 14, 282-288	2.9	4

27	A comparison of the bearing capacity between shallow bucket foundations and solid foundations in clay. <i>Ships and Offshore Structures</i> , 2020 , 15, 722-736	1.4	4
26	Analysis for the Vibration Mechanism of the Spillway Guide Wall Considering the Associated-Forced Coupled Vibration. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2572	2.6	3
25	Coupled Motion Characteristics of Offshore Wind Turbines during the Integrated Transportation Process. <i>Energies</i> , 2019 , 12, 2023	3.1	3
24	Analysis of the Cause and Mechanism of Hydraulic Gate Vibration during Flood Discharging from the Perspective of Structural Dynamics. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 629	2.6	3
23	Staged Optimization Design for Updating Urban Drainage Systems in a City of China. <i>Water (Switzerland)</i> , 2018 , 10, 66	3	3
22	An Importance AnalysisBased Weight Evaluation Framework for Identifying Key Components of Multi-Configuration Off-Grid Wind Power Generation Systems under Stochastic Data Inputs. <i>Energies</i> , 2019 , 12, 4372	3.1	3
21	Stochastic Dynamic Analysis of an Offshore Wind Turbine Structure by the Path Integration Method. <i>Energies</i> , 2019 , 12, 3051	3.1	2
20	Development and Application of a Pre-Corrected Fast Fourier Transform Accelerated Multi-Layer Boundary Element Method for the Simulation of Shallow Water Acoustic Propagation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2393	2.6	2
19	Air demand prediction and air duct design optimization method for spillway tunnel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021 , 59, 448-461	1.9	2
18	Simulation and Experimental Analysis on the Load Characteristics of a Temperature-Control Curtain in a Thermally-Stratified Reservoir. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1461	2.6	1
17	A Brief Theoretical Analysis on the Ventilation Characteristics of the Multi-Intake-Well Air Supply System in a Spillway Tunnel. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2793	2.6	1
16	Study on load-bearing characteristics of a new pile group foundation for an offshore wind turbine. <i>Scientific World Journal, The</i> , 2014 , 2014, 394104	2.2	1
15	The influence of wavecurrent on the motion response of air-floating structure. <i>Journal of Renewable and Sustainable Energy</i> , 2021 , 13, 063305	2.5	1
14	Applicability Study of Hydrological Period Identification Methods: Application to Huayuankou and Lijin in the Yellow River Basin, China. <i>Water (Switzerland)</i> , 2021 , 13, 1265	3	1
13	Theoretical and Numerical Approach for Simulating Spatially Variable Seismic Underground Motions in Layered Saturated Media. <i>Journal of Earthquake Engineering</i> , 2020 , 24, 601-627	1.8	1
12	Complementary Optimization of Hydropower with Pumped Hydro StoragePhotovoltaic Plant for All-Day Peak Electricity Demand in Malawi. <i>Energies</i> , 2021 , 14, 4948	3.1	1
11	An Experimental Study on the Effects of Atomized Rain of a High Velocity Waterjet to Downstream Area in Low Ambient Pressure Environment. <i>Water (Switzerland)</i> , 2020 , 12, 397	3	0
10	Evaluation of ammonia and nitrate distribution and reduction within stormwater green infrastructure with different woody plants under multiple influencing factors. <i>Journal of Environmental Management</i> , 2022 , 302, 114086	7.9	0

- 9 An Efficient Approach for Seismic Analysis of Multi-Support Structures Equipped with Coupled Dampers using Spectral Moments Instead of Cross-Correlation Coefficients. *Journal of Earthquake Engineering*, **2017**, 21, 701-725 1.8
- 8 Effects of Outlet Shrinkage on Hydraulics in Hyper-Concentrated Sediment-Laden Flow. *Applied Sciences (Switzerland)*, **2020**, 10, 1332 2.6
- 7 A Lagrangian Particle Algorithm (SPH) for an Autocatalytic Reaction Model with Multicomponent Reactants. *Processes*, **2019**, 7, 421 2.9
- 6 The effect of suspension on mean velocity profile. *Science in China Series B: Chemistry*, **2001**, 44, 99-106
- 5 Ground vibration characteristics induced by flood discharge of a high dam: An experimental investigation. *Journal of Renewable and Sustainable Energy*, **2021**, 13, 014502 2.5
- 4 Predicting Dam Flood Discharge Induced Ground Vibration with Modified Frequency Response Function. *Water (Switzerland)*, **2021**, 13, 144 3
- 3 Integrated floating method based on four-bucket jacket foundation for offshore substations and converter stations. *Ships and Offshore Structures*, 1-12 1.4
- 2 Development of Method for Assessing Water Footprint Sustainability. *Water (Switzerland)*, **2022**, 14, 694 3
- 1 Numerical Investigation on Air-Water Two-Phase Flow of Jinping-I Spillway Tunnel. *Applied Sciences (Switzerland)*, **2022**, 12, 4311 2.6