

Chao Wang

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.

39
papers

494
citations

13
h-index

21
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40
ext. papers

706
ext. citations

4.5
avg. IF

4.18
L-index

#	Paper	IF	Citations
39	Numerical simulation of failure modes of concrete gravity dams subjected to underwater explosion. <i>Engineering Failure Analysis</i> , 2014 , 36, 49-64	3.2	58
38	Experimental investigation of the size effect of layered roller compacted concrete (RCC) under high-strain-rate loading. <i>Construction and Building Materials</i> , 2018 , 165, 45-57	6.7	42
37	Deterministic 3D seismic damage analysis of Guandi concrete gravity dam: A case study. <i>Engineering Structures</i> , 2017 , 148, 263-276	4.7	33
36	Risk identification on hydropower project using the IAHP and extension of TOPSIS methods under interval-valued fuzzy environment. <i>Natural Hazards</i> , 2013 , 65, 359-373	3	30
35	Experimental investigations of dynamic compressive properties of roller compacted concrete (RCC). <i>Construction and Building Materials</i> , 2018 , 168, 671-682	6.7	28
34	Effect of silica fume and waste marble powder on the mechanical and durability properties of cellular concrete. <i>Construction and Building Materials</i> , 2020 , 241, 117980	6.7	27
33	Influence of the porosity and pore size on the compressive and splitting strengths of cellular concrete with millimeter-size pores. <i>Construction and Building Materials</i> , 2020 , 235, 117508	6.7	26
32	Compressive behavior and constitutive model for roller compacted concrete under impact loading: Considering vertical stratification. <i>Construction and Building Materials</i> , 2017 , 151, 428-440	6.7	25
31	Seismic performance evaluation of dam-reservoir-foundation systems to near-fault ground motions. <i>Natural Hazards</i> , 2014 , 72, 651-674	3	24
30	BIM-Based Collaboration Platform for the Management of EPC Projects in Hydropower Engineering. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 04017087	4.2	21
29	Integrating and managing BIM in 3D web-based GIS for hydraulic and hydropower engineering projects. <i>Automation in Construction</i> , 2020 , 112, 103114	9.6	17
28	Three-dimensional inversion analysis of an in situ stress field based on a two-stage optimization algorithm. <i>Journal of Zhejiang University: Science A</i> , 2016 , 17, 782-802	2.1	15
27	Bayesian-Based Hybrid Simulation Approach to Project Completion Forecasting for Underground Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014 , 140, 04013031	4.2	14
26	Blast-induced damage and evaluation method of concrete gravity dam subjected to near-field underwater explosion. <i>Engineering Structures</i> , 2020 , 209, 109996	4.7	13
25	Nonlinear dynamic response and damage analysis of hydraulic arched tunnels subjected to P waves with arbitrary incoming angles. <i>Computers and Geotechnics</i> , 2020 , 118, 103358	4.4	13
24	Effect of steel fibers on the compressive and splitting-tensile behaviors of cellular concrete with millimeter-size pores. <i>Construction and Building Materials</i> , 2019 , 221, 60-73	6.7	12
23	Real-Time Safety Risk Identification Model during Metro Construction Adjacent to Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019034	4.2	12

22	Inelastic dynamic response and fragility analysis of arched hydraulic tunnels under as-recorded far-fault and near-fault ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 132, 106070	3.5	10
21	Nonlinear dynamic analysis and damage evaluation of hydraulic arched tunnels under mainshock–aftershock ground motion sequences. <i>Tunnelling and Underground Space Technology</i> , 2020 , 98, 103321	5.7	9
20	Initial damage effect on dynamic compressive behaviors of roller compacted concrete (RCC) under impact loadings. <i>Construction and Building Materials</i> , 2018 , 186, 388-399	6.7	9
19	Methodology for estimating probability of dynamical system’s failure for concrete gravity dam. <i>Journal of Central South University</i> , 2014 , 21, 775-789	2.1	8
18	Influence of Ground Motion Duration on Responses of Concrete Gravity Dams. <i>Journal of Earthquake Engineering</i> , 2020 , 24, 1156-1180	1.8	8
17	Modifications of the HJC (Holmquist-Johnson-Cook) Model for an Improved Numerical Simulation of Roller Compacted Concrete (RCC) Structures Subjected to Impact Loadings. <i>Materials</i> , 2020 , 13,	3.5	6
16	Fragmentation-based dynamic size effect of layered roller compacted concrete (RCC) under impact loadings. <i>Construction and Building Materials</i> , 2018 , 192, 58-69	6.7	6
15	Experimental Investigation of the Compressive Behavior of RCC under High Strain Rates: Considering the Rolling Technique and Layered Structure. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018057	3	5
14	Influence of intermediate principal stress on failure mechanism of hard rock with a pre-existing circular opening. <i>Journal of Central South University</i> , 2014 , 21, 1571-1582	2.1	5
13	Investigation into stress wave propagation across interlayers existing in roller compacted concrete (RCC) under impact loadings. <i>Construction and Building Materials</i> , 2018 , 193, 13-22	6.7	4
12	A Real-Time Online Structure-Safety Analysis Approach Consistent with Dynamic Construction Schedule of Underground Caverns. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04016042	4.2	3
11	Real-Time Safety Evaluation for Slope during Construction Using Numerical Forecast and Sensor Monitoring Platform. <i>Sensors</i> , 2018 , 18,	3.8	3
10	Life Loss Estimation Based on Dam-Break Flood Uncertainties and Lack of Information in Mountainous Regions of Western China. <i>Transactions of Tianjin University</i> , 2017 , 23, 370-379	2.9	2
9	Application of CAD/CAE Integrating Technology for the Three-Dimensional Design of Hydropower Industry 2011 ,		2
8	Long-Term Structural Responses of Orifices in Gravity Dams Considering Thermal and Creep Effects. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04015041	2	2
7	Investigation on the relationship among the Cerchar abrasivity index, drilling parameters and physical and mechanical properties of the rock. <i>Tunnelling and Underground Space Technology</i> , 2021 , 112, 103907	5.7	1
6	Application of the endurance time methodology on seismic analysis and performance assessment of hydraulic arched tunnels. <i>Tunnelling and Underground Space Technology</i> , 2021 , 115, 104022	5.7	1
5	A cutting mechanics model of constant cross-section type disc cutter and its application based on dense core theory. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022 , 150, 105025	6	0

4	A BIM-Based Safety Management Framework for Operation and Maintenance in Water Diversion Projects. <i>Water Resources Management</i> , 2021 , 35, 1619-1635	3.7	○
3	Failure criteria calibration based on the triaxial compression behavior of roller compacted concrete (RCC). <i>Materials and Structures/Materiaux Et Constructions</i> , 2021 , 54, 1	3.4	○
2	Numerical Prediction and Analysis of Hydraulic Characteristics of Waterfall Scene for Application to Design Control. <i>Transactions of Tianjin University</i> , 2017 , 23, 277-288	2.9	
1	Stochastic simulation and analysis of geological corrosion defects in dam foundation. <i>Transactions of Tianjin University</i> , 2016 , 22, 324-333	2.9	