Chao Wang

List of Publications by Year
in descending order

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39	925	394286	454834
papers	citations	19	30
		h-index	g-index

41	41	41	687
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical simulation of failure modes of concrete gravity dams subjected to underwater explosion. Engineering Failure Analysis, 2014, 36, 49-64.	1.8	83
2	Effect of silica fume and waste marble powder on the mechanical and durability properties of cellular concrete. Construction and Building Materials, 2020, 241, 117980.	3.2	63
3	Experimental investigation of the size effect of layered roller compacted concrete (RCC) under high-strain-rate loading. Construction and Building Materials, 2018, 165, 45-57.	3.2	61
4	Experimental investigations of dynamic compressive properties of roller compacted concrete (RCC). Construction and Building Materials, 2018, 168, 671-682.	3.2	54
5	Influence of the porosity and pore size on the compressive and splitting strengths of cellular concrete with millimeter-size pores. Construction and Building Materials, 2020, 235, 117508.	3.2	54
6	Integrating and managing BIM in 3D web-based GIS for hydraulic and hydropower engineering projects. Automation in Construction, 2020, 112, 103114.	4.8	48
7	Deterministic 3D seismic damage analysis of Guandi concrete gravity dam: A case study. Engineering Structures, 2017, 148, 263-276.	2.6	47
8	BIM-Based Collaboration Platform for the Management of EPC Projects in Hydropower Engineering. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	40
9	Blast-induced damage and evaluation method of concrete gravity dam subjected to near-field underwater explosion. Engineering Structures, 2020, 209, 109996.	2.6	38
10	Seismic performance evaluation of dam-reservoir-foundation systems to near-fault ground motions. Natural Hazards, 2014, 72, 651-674.	1.6	37
11	Risk identification on hydropower project using the IAHP and extension of TOPSIS methods under interval-valued fuzzy environment. Natural Hazards, 2013, 65, 359-373.	1.6	34
12	Compressive behavior and constitutive model for roller compacted concrete under impact loading: Considering vertical stratification. Construction and Building Materials, 2017, 151, 428-440.	3.2	32
13	Inelastic dynamic response and fragility analysis of arched hydraulic tunnels under as-recorded far-fault and near-fault ground motions. Soil Dynamics and Earthquake Engineering, 2020, 132, 106070.	1.9	27
14	Real-Time Safety Risk Identification Model during Metro Construction Adjacent to Buildings. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	26
15	Three-dimensional inversion analysis of an in situ stress field based on a two-stage optimization algorithm. Journal of Zhejiang University: Science A, 2016, 17, 782-802.	1.3	24
16	Nonlinear dynamic response and damage analysis of hydraulic arched tunnels subjected to P waves with arbitrary incoming angles. Computers and Geotechnics, 2020, 118, 103358.	2.3	24
17	Effect of steel fibers on the compressive and splitting-tensile behaviors of cellular concrete with millimeter-size pores. Construction and Building Materials, 2019, 221, 60-73.	3.2	23
18	Initial damage effect on dynamic compressive behaviors of roller compacted concrete (RCC) under impact loadings. Construction and Building Materials, 2018, 186, 388-399.	3.2	22

#	Article	IF	Citations
19	Bayesian-Based Hybrid Simulation Approach to Project Completion Forecasting for Underground Construction. Journal of Construction Engineering and Management - ASCE, 2014, 140, .	2.0	19
20	Nonlinear dynamic analysis and damage evaluation of hydraulic arched tunnels under mainshockâ€“aftershock ground motion sequences. Tunnelling and Underground Space Technology, 2020, 98, 103321.	3.0	19
21	Influence of Ground Motion Duration on Responses of Concrete Gravity Dams. Journal of Earthquake Engineering, 2020, 24, 1156-1180.	1.4	18
22	Modifications of the HJC (Holmquistâ€“Johnsonâ€“Cook) Model for an Improved Numerical Simulation of Roller Compacted Concrete (RCC) Structures Subjected to Impact Loadings. Materials, 2020, 13, 1361.	1.3	16
23	Investigation on the relationship among the Cerchar abrasivity index, drilling parameters and physical and mechanical properties of the rock. Tunnelling and Underground Space Technology, 2021, 112, 103907.	3.0	15
24	Fragmentation-based dynamic size effect of layered roller compacted concrete (RCC) under impact loadings. Construction and Building Materials, 2018, 192, 58-69.	3.2	13
25	Application of the endurance time methodology on seismic analysis and performance assessment of hydraulic arched tunnels. Tunnelling and Underground Space Technology, 2021, 115, 104022.	3.0	12
26	Influence of intermediate principal stress on failure mechanism of hard rock with a pre-existing circular opening. Journal of Central South University, 2014, 21, 1571-1582.	1.2	10
27	A cutting mechanics model of constant cross-section type disc cutter and its application based on dense core theory. International Journal of Rock Mechanics and Minings Sciences, 2022, 150, 105025.	2.6	10
28	Methodology for estimating probability of dynamical systemâ€™s failure for concrete gravity dam. Journal of Central South University, 2014, 21, 775-789.	1.2	9
29	A Real-Time Online Structure-Safety Analysis Approach Consistent with Dynamic Construction Schedule of Underground Caverns. Journal of Construction Engineering and Management - ASCE, 2016, 142, 04016042.	2.0	8
30	Investigation into stress wave propagation across interlayers existing in roller compacted concrete (RCC) under impact loadings. Construction and Building Materials, 2018, 193, 13-22.	3.2	7
31	Experimental Investigation of the Compressive Behavior of RCC under High Strain Rates: Considering the Rolling Technique and Layered Structure. Journal of Materials in Civil Engineering, 2018, 30, 04018057.	1.3	6
32	Long-Term Structural Responses of Orifices in Gravity Dams Considering Thermal and Creep Effects. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	5
33	Failure criteria calibration based on the triaxial compression behavior of roller compacted concrete (RCC). Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	5
34	Application of CAD/CAE Integrating Technology for the Three-Dimensional Design of Hydropower Industry. , 2011, , .		4
35	Real-Time Safety Evaluation for Slope during Construction Using Numerical Forecast and Sensor Monitoring Platform. Sensors, 2018, 18, 2978.	2.1	4
36	A BIM-Based Safety Management Framework for Operation and Maintenance in Water Diversion Projects. Water Resources Management, 2021, 35, 1619-1635.	1.9	4

#	Article	IF	Citations
37	Life Loss Estimation Based on Dam-Break Flood Uncertainties and Lack of Information in Mountainous Regions of Western China. Transactions of Tianjin University, 2017, 23, 370-379.	3.3	3
38	Stochastic simulation and analysis of geological corrosion defects in dam foundation. Transactions of Tianjin University, 2016, 22, 324-333.	3.3	0
39	Numerical Prediction and Analysis of Hydraulic Characteristics of Waterfall Scene for Application to Design Control. Transactions of Tianjin University, 2017, 23, 277-288.	3.3	0