

Xiaowei Wang

List of Publications by Year in descending order

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33
papers

1,036
citations

361296
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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal intensity measures for probabilistic seismic demand modeling of extended pile-shaft-supported bridges in liquefied and laterally spreading ground. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 229-257.	2.3	116
2	Cloud-IDA-MSA Conversion of Fragility Curves for Efficient and High-Fidelity Resilience Assessment. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	87
3	Shake table test on transverse steel damper seismic system for long span cable-stayed bridges. <i>Engineering Structures</i> , 2019, 179, 106-119.	2.6	70
4	Shake-table investigation of scoured RC pile-group-supported bridges in liquefiable and nonliquefiable soils. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 1217-1237.	2.5	65
5	Seismic performance of Transverse Steel Damper seismic system for long span bridges. <i>Engineering Structures</i> , 2017, 141, 14-28.	2.6	62
6	Fragility-based sensitivity analysis on the seismic performance of pile-group-supported bridges in liquefiable ground undergoing scour potentials. <i>Engineering Structures</i> , 2019, 198, 109427.	2.6	59
7	Machine learning based water pipe failure prediction: The effects of engineering, geology, climate and socio-economic factors. <i>Reliability Engineering and System Safety</i> , 2022, 219, 108185.	5.1	57
8	Machine Learning for Risk and Resilience Assessment in Structural Engineering: Progress and Future Trends. <i>Journal of Structural Engineering</i> , 2022, 148, .	1.7	48
9	Optimal EDPs for Post-Earthquake Damage Assessment of Extended Pile-Shaft-Supported Bridges Subjected to Transverse Spreading. <i>Earthquake Spectra</i> , 2019, 35, 1367-1396.	1.6	46
10	Quasi-Static Cyclic Testing of Elevated RC Pile-Cap Foundation for Bridge Structures. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	43
11	Lead-rubber-bearing with negative stiffness springs (LRB-NS) for base-isolation seismic design of resilient bridges: A theoretical feasibility study. <i>Engineering Structures</i> , 2022, 266, 114601.	2.6	40
12	Impact of seismic excitation direction on the fragility analysis of horizontally curved concrete bridges. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 4705-4733.	2.3	38
13	Seismic response prediction and variable importance analysis of extended pile-shaft-supported bridges against lateral spreading: Exploring optimized machine learning models. <i>Engineering Structures</i> , 2021, 236, 112142.	2.6	36
14	Seismic Behavior of Pile-Group-Supported Bridges in Liquefiable Soils with Crusts Subjected to Potential Scour: Insights from Shake-Table Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	1.5	35
15	Efficient Finite-Element Model for Seismic Response Estimation of Piles and Soils in Liquefied and Laterally Spreading Ground Considering Shear Localization. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	32
16	Transverse seismic failure mechanism and ductility of reinforced concrete pylon for long span cable-stayed bridges: Model test and numerical analysis. <i>Engineering Structures</i> , 2019, 189, 206-221.	2.6	30
17	Parametric Pushover Analysis on Elevated RC Pile-Cap Foundations for Bridges in Cohesionless Soils. <i>Journal of Bridge Engineering</i> , 2019, 24, .	1.4	27
18	Optimal Force-Based Beam-Column Element Size for Reinforced-Concrete Piles in Bridges. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	25

#	ARTICLE	IF	CITATIONS
19	Enhanced endurance-time-method (EETM) for efficient seismic fragility, risk and resilience assessment of structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 147, 106731.	1.9	24
20	Fractional order optimal intensity measures for probabilistic seismic demand modeling of extended pile-shaft-supported bridges in liquefiable and laterally spreading ground. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 120, 301-315.	1.9	22
21	Roles of pile-group and cap-rotation effects on seismic failure mechanisms of partially-embedded bridge foundations: Quasi-static tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106074.	1.9	20
22	Low cycle fatigue performance investigation on Transverse Steel Dampers for bridges under ground motion sequences using shake-table tests. <i>Engineering Structures</i> , 2019, 196, 109328.	2.6	15
23	FOSID: a fractional order spectrum intensity for probabilistic seismic demand modeling of extended pile-shaft-supported highway bridges under liquefaction and transverse spreading. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 2531-2559.	2.3	12
24	Corrosion Damage Behavior of Prestressed Rock Bolts under Aggressive Environment. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 3135-3145.	0.9	8
25	Empirical Probability Distribution Models for Soil-Layer Thicknesses of Liquefiable Ground. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	7
26	Shallow-Layer ρ - γ Relationships for Micropiles Embedded in Saturated Medium Dense Sand Using Quasi-Static Test. <i>Geotechnical Testing Journal</i> , 2018, 41, 193-206.	0.5	6
27	Probabilistic seismic response analysis of coastal highway bridges under scour and liquefaction conditions: does the hydrodynamic effect matter?. <i>Advances in Bridge Engineering</i> , 2020, 1, .	0.8	3
28	Optimum weighted arithmetic means of peak- and spectral-based intensity measures for probabilistic seismic demand modeling of modularized suspended buildings. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 5383-5426.	2.3	2
29	Experimental Study on Seismic Behavior of Scoured Pile-Group Foundations Considering Pile Uplift. , 2019, , .		1
30	Experimental Assessment on Seismic Failure Modes of Bridges in Liquefiable Ground with or without Overburden Crust. , 2018, , .		0
31	Sensitivity Analysis on Seismic Performance of Pile-Group Supported Bridges under Combined Effects of Scour and Liquefaction Hazards. , 2019, , .		0
32	Equivalent Plastic Hinge Length of Extended Pile-Shafts embedded in Sand. , 2016, , .		0
33	Experimental Investigation on Transverse Steel Damper Seismic System for Cable-stayed Bridges. , 2018, , .		0