Xiaowei Wang

List of Publications by Year in Descending Order

25 papers	422 citations	12 h-index	20 g-index
33 ext. papers	740 ext. citations	3.5 avg, IF	4.93 L-index

#	Paper	IF	Citations
25	Machine Learning based Water Pipe Failure Prediction: The Effects of Engineering, Geology, Climate and Socio-Economic Factors. *Reliability Engineering and System Safety*, **2021**, 219, 108185	6.3	5
24	FOSID: a fractional order spectrum intensity for probabilistic seismic demand modeling of extended pile-shaft-supported highway bridges under liquefaction and transverse spreading. *Bulletin of Earthquake Engineering*, **2021**, 19, 2531-2559	3.7	3
23	Cloud-IDA-MSA Conversion of Fragility Curves for Efficient and High-Fidelity Resilience Assessment. *Journal of Structural Engineering*, **2021**, 147, 04021049	3	27
22	Seismic response prediction and variable importance analysis of extended pile-shaft-supported bridges against lateral spreading: Exploring optimized machine learning models. *Engineering Structures*, **2021**, 236, 112142	4.7	6
21	Empirical Probability Distribution Models for Soil-Layer Thicknesses of Liquefiable Ground. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2021**, 147,	3.4	3
20	Enhanced endurance-time-method (EETM) for efficient seismic fragility, risk and resilience assessment of structures. *Soil Dynamics and Earthquake Engineering*, **2021**, 147, 106731	3.5	4
19	Seismic Behavior of Pile-Group-Supported Bridges in Liquefiable Soils with Crusts Subjected to Potential Scour: Insights from Shake-Table Tests. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2020**, 146, 04020030	3.4	18
18	Roles of pile-group and cap-rotation effects on seismic failure mechanisms of partially-embedded bridge foundations: Quasi-static tests. *Soil Dynamics and Earthquake Engineering*, **2020**, 132, 106074	3.5	5
17	Probabilistic seismic response analysis of coastal highway bridges under scour and liquefaction conditions: does the hydrodynamic effect matter?. *Advances in Bridge Engineering*, **2020**, 1,	1.1	2
16	Optimal EDPs for Post-Earthquake Damage Assessment of Extended Pile-Shaft-Supported Bridges Subjected to Transverse Spreading. *Earthquake Spectra*, **2019**, 35, 1367-1396	3.4	21
15	Low cycle fatigue performance investigation on Transverse Steel Dampers for bridges under ground motion sequences using shake-table tests. *Engineering Structures*, **2019**, 196, 109328	4.7	6
14	Shake-table investigation of scoured RC pile-group-supported bridges in liquefiable and nonliquefiable soils. *Earthquake Engineering and Structural Dynamics*, **2019**, 48, 1217-1237	4	30
13	Corrosion Damage Behavior of Prestressed Rock Bolts under Aggressive Environment. *KSCE Journal of Civil Engineering*, **2019**, 23, 3135-3145	1.9	7
12	Transverse seismic failure mechanism and ductility of reinforced concrete pylon for long span cable-stayed bridges: Model test and numerical analysis. *Engineering Structures*, **2019**, 189, 206-221	4.7	16
11	Fractional order optimal intensity measures for probabilistic seismic demand modeling of extended pile-shaft-supported bridges in liquefiable and laterally spreading ground. *Soil Dynamics and Earthquake Engineering*, **2019**, 120, 301-315	3.5	12
10	Fragility-based sensitivity analysis on the seismic performance of pile-group-supported bridges in liquefiable ground undergoing scour potentials. *Engineering Structures*, **2019**, 198, 109427	4.7	23
9	Shake table test on transverse steel damper seismic system for long span cable-stayed bridges. *Engineering Structures*, **2019**, 179, 106-119	4.7	34

List of Publications

8	Parametric Pushover Analysis on Elevated RC Pile-Cap Foundations for Bridges in Cohesionless Soils. *Journal of Bridge Engineering*, **2019**, 24, 04018104	2.7	11
7	Optimal intensity measures for probabilistic seismic demand modeling of extended pile-shaft-supported bridges in liquefied and laterally spreading ground. *Bulletin of Earthquake Engineering*, **2018**, 16, 229-257	3.7	68
6	Impact of seismic excitation direction on the fragility analysis of horizontally curved concrete bridges. *Bulletin of Earthquake Engineering*, **2018**, 16, 4705-4733	3.7	23
5	Shallow-Layer p-y Relationships for Micropiles Embedded in Saturated Medium Dense Sand Using Quasi-Static Test. *Geotechnical Testing Journal*, **2018**, 41, 20160289	1.3	3
4	Seismic performance of Transverse Steel Damper seismic system for long span bridges. *Engineering Structures*, **2017**, 141, 14-28	4.7	40
3	Efficient Finite-Element Model for Seismic Response Estimation of Piles and Soils in Liquefied and Laterally Spreading Ground Considering Shear Localization. *International Journal of Geomechanics*, **2017**, 17, 06016039	3.1	20
2	Quasi-Static Cyclic Testing of Elevated RC Pile-Cap Foundation for Bridge Structures. *Journal of Bridge Engineering*, **2016**, 21, 04015042	2.7	20
1	Optimal Force-Based Beam-Column Element Size for Reinforced-Concrete Piles in Bridges. *Journal of Bridge Engineering*, **2016**, 21, 06016006	2.7	12