

# Xiaowei 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.

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	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> , <b>2018</b> , 16, 229-257	3.7	68
24	Seismic performance of Transverse Steel Damper seismic system for long span bridges. <i>Engineering Structures</i> , <b>2017</b> , 141, 14-28	4.7	40
23	Shake table test on transverse steel damper seismic system for long span cable-stayed bridges. <i>Engineering Structures</i> , <b>2019</b> , 179, 106-119	4.7	34
22	Shake-table investigation of scoured RC pile-group-supported bridges in liquefiable and nonliquefiable soils. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2019</b> , 48, 1217-1237	4	30
21	Cloud-IDA-MSA Conversion of Fragility Curves for Efficient and High-Fidelity Resilience Assessment. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04021049	3	27
20	Impact of seismic excitation direction on the fragility analysis of horizontally curved concrete bridges. <i>Bulletin of Earthquake Engineering</i> , <b>2018</b> , 16, 4705-4733	3.7	23
19	Fragility-based sensitivity analysis on the seismic performance of pile-group-supported bridges in liquefiable ground undergoing scour potentials. <i>Engineering Structures</i> , <b>2019</b> , 198, 109427	4.7	23
18	Optimal EDPs for Post-Earthquake Damage Assessment of Extended Pile-Shaft-Supported Bridges Subjected to Transverse Spreading. <i>Earthquake Spectra</i> , <b>2019</b> , 35, 1367-1396	3.4	21
17	Quasi-Static Cyclic Testing of Elevated RC Pile-Cap Foundation for Bridge Structures. <i>Journal of Bridge Engineering</i> , <b>2016</b> , 21, 04015042	2.7	20
16	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> , <b>2017</b> , 17, 06016039	3.1	20
15	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> , <b>2020</b> , 146, 04020030	3.4	18
14	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> , <b>2019</b> , 189, 206-221	4.7	16
13	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> , <b>2019</b> , 120, 301-315	3.5	12
12	Optimal Force-Based Beam-Column Element Size for Reinforced-Concrete Piles in Bridges. <i>Journal of Bridge Engineering</i> , <b>2016</b> , 21, 06016006	2.7	12
11	Parametric Pushover Analysis on Elevated RC Pile-Cap Foundations for Bridges in Cohesionless Soils. <i>Journal of Bridge Engineering</i> , <b>2019</b> , 24, 04018104	2.7	11
10	Corrosion Damage Behavior of Prestressed Rock Bolts under Aggressive Environment. <i>KSCE Journal of Civil Engineering</i> , <b>2019</b> , 23, 3135-3145	1.9	7
9	Low cycle fatigue performance investigation on Transverse Steel Dampers for bridges under ground motion sequences using shake-table tests. <i>Engineering Structures</i> , <b>2019</b> , 196, 109328	4.7	6

8	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> , <b>2021</b> , 236, 112142	4.7	6
7	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> , <b>2020</b> , 132, 106074	3.5	5
6	Machine Learning based Water Pipe Failure Prediction: The Effects of Engineering, Geology, Climate and Socio-Economic Factors. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 219, 108185	6.3	5
5	Enhanced endurance-time-method (EETM) for efficient seismic fragility, risk and resilience assessment of structures. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2021</b> , 147, 106731	3.5	4
4	Shallow-Layer p-y Relationships for Micropiles Embedded in Saturated Medium Dense Sand Using Quasi-Static Test. <i>Geotechnical Testing Journal</i> , <b>2018</b> , 41, 20160289	1.3	3
3	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> , <b>2021</b> , 19, 2531-2559	3.7	3
2	Empirical Probability Distribution Models for Soil-Layer Thicknesses of Liquefiable Ground. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2021</b> , 147,	3.4	3
1	Probabilistic seismic response analysis of coastal highway bridges under scour and liquefaction conditions: does the hydrodynamic effect matter?. <i>Advances in Bridge Engineering</i> , <b>2020</b> , 1,	1.1	2