

# Yazhou Xie

## 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.

20  
papers

280  
citations

11  
h-index

16  
g-index

22  
ext. papers

455  
ext. citations

3.5  
avg, IF

4.37  
L-index

#	Paper	IF	Citations
20	The promise of implementing machine learning in earthquake engineering: A state-of-the-art review. <i>Earthquake Spectra</i> , <b>2020</b> , 36, 1769-1801	3.4	72
19	Seismic fragilities of single-column highway bridges with rocking column-footing. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2019</b> , 48, 843-864	4	26
18	Sensitivity of seismic demands and fragility estimates of a typical California highway bridge to uncertainties in its soil-structure interaction modeling. <i>Engineering Structures</i> , <b>2019</b> , 189, 605-617	4.7	23
17	Optimal Design of Seismic Protective Devices for Highway Bridges Using Performance-Based Methodology and Multiobjective Genetic Optimization. <i>Journal of Bridge Engineering</i> , <b>2017</b> , 22, 04016129	2.7	22
16	Design and Optimization of Seismic Isolation and Damping Devices for Highway Bridges Based on Probabilistic Repair Cost Ratio. <i>Journal of Structural Engineering</i> , <b>2018</b> , 144, 04018125	3	21
15	Probabilistic models of abutment backfills for regional seismic assessment of highway bridges in California. <i>Engineering Structures</i> , <b>2019</b> , 180, 452-467	4.7	19
14	Seismic responses of bridges with rocking column-foundation: A dimensionless regression analysis. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2019</b> , 48, 152-170	4	16
13	Experimental and numerical investigations of replaceable moment-resisting viscoelastic damper for steel frames. <i>Journal of Constructional Steel Research</i> , <b>2020</b> , 170, 106100	3.8	15
12	Seismic fragility analyses of steel building frames installed with superelastic shape memory alloy dampers: Comparison with yielding dampers. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2019</b> , 30, 2670-2687	2.3	11
11	Effectiveness evaluation and optimal design of nonlinear viscous dampers for inelastic structures under pulse-type ground motions. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2018</b> , 47, 2802-2820	4	11
10	Development and validation of p-y modeling approach for seismic response predictions of highway bridges. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2017</b> , 46, 585-604	4	11
9	Simplified Drift Demand Prediction of Bridges under Liquefaction-Induced Lateral Spreading. <i>Journal of Bridge Engineering</i> , <b>2018</b> , 23, 04018053	2.7	10
8	Performance-based seismic design and optimization of damper devices for cable-stayed bridge. <i>Engineering Structures</i> , <b>2021</b> , 237, 112043	4.7	6
7	Shake table tests of highway bridges installed with unbonded steel mesh reinforced rubber bearings. <i>Engineering Structures</i> , <b>2020</b> , 206, 110124	4.7	5
6	A comprehensive review of Bayesian statistics in natural hazards engineering. <i>Natural Hazards</i> , <b>2021</b> , 108, 63-91	3	4
5	Replaceable Rotational Viscoelastic Dampers for Improving Structural Damping and Resilience of Steel Frames. <i>Journal of Earthquake Engineering</i> , 1-23	1.8	3
4	Influence of abutment straight backwall fracture on the seismic response of bridges. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 1824-1844	4	2

3	Probabilistic Seismic Response and Capacity Models of Piles for Statewide Bridges in California. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04021127	3	1
2	In-plane stability of an underground support system with steel corrugated webs: Experimental study, finite element analysis, and design formula. <i>Journal of Constructional Steel Research</i> , <b>2021</b> , 185, 106872	3.8	1
1	Seismic fragility of approach backfill differential settlement for statewide bridges in California. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2022</b> , 153, 107049	3.5	