Shahram Pezeshk

List of Publications by Year
in descending order

54
papers	1,349
citations	471061
17
h-index	360668
35
g-index
54
all docs	54
docs citations	54
times ranked	940
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized Design of Two-Dimensional Structures Using a Genetic Algorithm. Journal of Structural Engineering, 1998, 124, 551-559.	1.7	212
2	Selection and Scaling of Ground Motion Time Histories for Structural Design Using Genetic Algorithms. Earthquake Spectra, 2004, 20, 413-426.	1.6	164
3	On the application of machine learning techniques to derive seismic fragility curves. Computers and Structures, 2019, 218, 108-122.	2.4	157
4	Flexural Design of Reinforced Concrete Frames Using a Genetic Algorithm. Journal of Structural Engineering, 2003, 129, 105-115.	1.7	128
5	Probabilistic Performance-Based Optimal Design of Steel Moment-Resisting Frames. I: Formulation. Journal of Structural Engineering, 2007, 133, 757-766.	1.7	45
6	Partially Nonergodic Empirical Ground‐Motion Models for Predicting Horizontal and Vertical PGV, PGA, and 5% Damped Linear Acceleration Response Spectra Using Data from the Iranian Plateau. Bulletin of the Seismological Society of America, 2017, 107, 934-948.	1.1	44
7	Risk-Based Seismic Design for Optimal Structural and Nonstructural System Performance. Earthquake Spectra, 2011, 27, 857-880.	1.6	43
8	School based optimization algorithm for design of steel frames. Engineering Structures, 2018, 171, 326-335.	2.6	41
9	Alternative Hybrid Empirical Ground‐Motion Model for Central and Eastern North America Using Hybrid Simulations and NGA‐West2 Models. Bulletin of the Seismological Society of America, 2016, 106, 734-754.	1.1	34
10	Sensitivity analysis of the seismic demands of RC moment resisting frames to different aspects of ground motions. Earthquake Engineering and Structural Dynamics, 2017, 46, 2739-2755.	2.5	32
11	Ground‐Motion Prediction Equations for Central and Eastern North America Using the Hybrid Empirical Method and NGA‐West2 Empirical Ground‐Motion Models. Bulletin of the Seismological Society of America, 2018, 108, 2278-2304.	1.1	29
12	Seismic performance-based design optimization considering direct economic loss and direct social loss. Engineering Structures, 2014, 76, 193-201.	2.6	28
13	On the number of required response history analyses. Bulletin of Earthquake Engineering, 2018, 16, 5195-5226.	2.3	28
14	Probabilistic Performance-Based Optimal Design of Steel Moment-Resisting Frames. II: Applications. Journal of Structural Engineering, 2007, 133, 767-776.	1.7	27
15	Estimation of the Coda‐Wave Attenuation and Geometrical Spreading in the New Madrid Seismic Zone. Bulletin of the Seismological Society of America, 2016, 106, 1482-1498.	1.1	26
16	Role of conditioning intensity measure in the influence of ground motion duration on the structural response. Soil Dynamics and Earthquake Engineering, 2018, 104, 408-417.	1.9	23
17	Application of pool-based active learning in reducing the number of required response history analyses. Computers and Structures, 2020, 241, 106355.	2.4	22
18	Estimation of κ_0 Implied by the High‐Frequency Shape of the NGA‐West2 Ground‐Motion Prediction Equations. Bulletin of the Seismological Society of America, 2016, 106, 1342-1356.	1.1	18

#	Article	IF	Citations
19	FUZZY PATTERN CLASSIFICATION OF STRONG GROUND MOTION RECORDS. Journal of Earthquake Engineering, 2005, 9, 307-332.	1.4	17
20	Ground Motion Site Amplification Factors for Sites Located within the Mississippi Embayment with Consideration of Deep Soil Deposits. Earthquake Spectra, 2015, 31, 699-722.	1.6	17
21	A Study of Vertical‐to‐Horizontal Ratio of Earthquake Components in the Gulf Coast Region. Bulletin of the Seismological Society of America, 2017, 107, 2055-2066.	1.1	17
22	Performance-Based Optimization considering Both Structural and Nonstructural Components. Earthquake Spectra, 2007, 23, 685-709.	1.6	14
23	Synthetic Seismograms Using a Hybrid Broadband Ground‐Motion Simulation Approach: Application to Central and Eastern United States. Bulletin of the Seismological Society of America, 2015, 105, 686-705.	1.1	14
24	An Analytical Effective Point‐Source‐Based Distance‐Conversion Approach to Mimic the Effects of Extended Faults on Seismic Hazard Assessment. Bulletin of the Seismological Society of America, 2018, 108, 742-760.	1.1	14
25	Site amplification within the Mississippi embayment of the central United States: Investigation of possible differences among various phases of seismic waves and presence of basin waves. Soil Dynamics and Earthquake Engineering, 2018, 113, 534-544.	1.9	14
26	Attenuation of Lg waves in the New Madrid seismic zone of the central United States using the coda normalization method. Tectonophysics, 2017, 712-713, 623-633.	0.9	10
27	Near-source attenuation of high-frequency body waves beneath the New Madrid Seismic Zone. Journal of Seismology, 2018, 22, 455-470.	0.6	10
28	Near-source strong motion database catalog for Iran. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	9
29	An Equivalent Point‐Source Stochastic Simulation of the NGA‐West2 Ground‐Motion Prediction Equations. Bulletin of the Seismological Society of America, 2018, 108, 815-835.	1.1	9
30	Assessing the Applicability of Ground‐Motion Models for Induced Seismicity Application in Central and Eastern North America. Bulletin of the Seismological Society of America, 2018, 108, 2265-2277.	1.1	9
31	A Referenced Empirical Ground-Motion Model for Arias Intensity and Cumulative Absolute Velocity Based on the NGA-East Database. Bulletin of the Seismological Society of America, 2020, 110, 508-518.	1.1	9
32	Probabilistic Seismic Loss Analysis for the Design of Steel Structures: Optimizing for Multiple-Objective Functions. Earthquake Spectra, 2016, 32, 1587-1605.	1.6	8
33	A New Approach to Estimate a Mixed Model‐Based Ground Motion Prediction Equation. Earthquake Spectra, 2007, 23, 665-684.	1.6	7
34	A Comparison of Different Approaches to Incorporate Site Effects into PSHA: A Case Study for a Liquefied Natural Gas Tank. Bulletin of the Seismological Society of America, 2017, 107, 2927-2947.	1.1	7
35	Relationships among Various Definitions of Horizontal Spectral Accelerations in Central and Eastern North America. Bulletin of the Seismological Society of America, 2018, 108, 409-417.	1.1	7
36	Ranking of Ground-Motion Models (GMMs) for Use in Probabilistic Seismic Hazard Analysis for Iran Based on an Independent Data Set. Bulletin of the Seismological Society of America, 2021, 111, 242-257.	1.1	7

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37	A Stochastic Approach in Estimating the Pseudo-Relative Spectral Velocity. Earthquake Spectra, 1998, 14, 301-317.	1.6	6
38	Comparative study on parameter estimation methods for attenuation relationships. Journal of Geophysics and Engineering, 2016, 13, 912-927.	0.7	5
39	The importance of non-spectral intensity measures on the risk-based structural responses. Soil Dynamics and Earthquake Engineering, 2019, 120, 97-112.	1.9	5
40	Assessing Predictive Capability of Ground-Motion Models for Probabilistic Seismic Hazard in Iran. Bulletin of the Seismological Society of America, 2019, 109, 2073-2087.	1.1	5
41	Comparison of Nonlinear Static Procedures and Modeling Assumptions for the Seismic Design of Ordinary Bridges. Practice Periodical on Structural Design and Construction, 2017, 22, 04016022.	0.7	4
42	Investigation of coda and body wave attenuation functions in Central Asia. Journal of Seismology, 2019, 23, 1047-1070.	0.6	4
43	Comparison of Static and Dynamic Lateral Stiffnesses of a Driven Pile. Journal of Bridge Engineering, 2001, 6, 131-135.	1.4	3
44	A ground-motion prediction model for small-to-moderate induced earthquakes for Central and Eastern United States. Earthquake Spectra, 2021, 37, 1440-1459.	1.6	3
45	A Ground-Motion Model for the Gulf Coast Region of the United States. Bulletin of the Seismological Society of America, 0, , .	1.1	3
46	Using metaheuristic algorithms to optimize a mixed model-based ground-motion prediction model and associated variance components. Journal of Seismology, 0, , .	0.6	3
47	A Generalization of the Stochastic Summation Scheme of Small Earthquakes to Simulate Strong Ground Motions. Pure and Applied Geophysics, 2020, 177, 3713-3732.	0.8	2
48	A New Model for Vertical-to-Horizontal Response Spectral Ratios for Central and Eastern North America. Bulletin of the Seismological Society of America, 2022, 112, 2018-2030.	1.1	2
49	GIS in Seismic Evaluation of Essential Facilities. Computer-Aided Civil and Infrastructure Engineering, 1994, 9, 271-280.	6.3	1
50	Identification of Input Ground Motion Records for Seismic Design Using Neuro-fuzzy Pattern Recognition and Genetic Algorithms. , 2004, , 1.		1
51	A study of horizontal-to-vertical component spectral ratio as a proxy for site classification in central Asia. Geophysical Journal International, 2020, 223, 1355-1377.	1.0	1
52	Sensitivity analysis of the seismic demands of RC moment resisting frames to different aspects of ground motions. , 2017, 46, 2739.		1
53	Inelastic Displacement Spectra for Bridges Using the Substitute-Structure Method. Practice Periodical on Structural Design and Construction, 2016, 21, 04015020.	0.7	0
54	The Impact of Non-Spectral Intensity Measures on the Structural Responses. , 2018, , .		0