

Sonia E Ruiz

List of Publications by Year in descending order

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77
papers

917
citations

567144

15
h-index

501076

28
g-index

82
all docs

82
docs citations

82
times ranked

605
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Higher Modes of Vibration on the Seismic Response of Buildings with Linear and Nonlinear Viscous Dampers. <i>Journal of Earthquake Engineering</i> , 2022, 26, 3914-3937.	1.4	5
2	Development an Artificial Neural Network Model for Estimating Cost of R/C Building by Using Life-Cycle Cost Function: Case Study of Mexico City. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-15.	0.4	1
3	Optimal design of buildings under wind and earthquake, considering cumulative damage. <i>Journal of Building Engineering</i> , 2022, 56, 104760.	1.6	3
4	Use of Artificial Neural Networks and Response Surface Methodology for Evaluating the Reliability Index of Steel Wind Towers. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-15.	0.4	3
5	Influence of spectral acceleration correlation models on conditional mean spectra and probabilistic seismic hazard analysis. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 309-328.	2.5	6
6	BRB retrofit of mid-rise soft-first-story RC moment-frame buildings with masonry infill in upper stories. <i>Journal of Building Engineering</i> , 2021, 38, 101783.	1.6	5
7	Optimal load factors for earthquake-resistant design of buildings located at different types of soils. <i>Journal of Building Engineering</i> , 2021, 34, 102026.	1.6	4
8	Enhanced Seismic Structural Reliability on Reinforced Concrete Buildings by Using Buckling Restrained Braces. <i>Shock and Vibration</i> , 2021, 2021, 1-12.	0.3	4
9	Reliability-based strength modification factor for seismic design spectra considering structural degradation. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 1445-1460.	1.5	2
10	Structural reliability of reinforced concrete buildings under earthquakes and corrosion effects. <i>Engineering Structures</i> , 2021, 237, 112161.	2.6	20
11	Comparing Hysteretic Energy and Ductility Uniform Annual Failure Rate Spectra for Traditional and a Spectral Shape-Based Intensity Measure. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-17.	0.4	1
12	Reliability analysis of steel buildings considering the flexibility of the connections of the GFs. <i>Structures</i> , 2020, 27, 2170-2181.	1.7	7
13	Capacity and Demand Factors changing over time. Application to wind turbine steel towers. <i>Engineering Structures</i> , 2020, 206, 110156.	2.6	2
14	Improving the Structural Reliability of Steel Frames Using Posttensioned Connections. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-10.	0.4	13
15	FACTORES DE AMPLIFICACI3N DE RESISTENCIA PARA EL DISE2O DE ESTRUCTURAS CON ASIMETR3A EN FLUENCIA. <i>Revista De Ingenier3a S3smica</i> , 2019, , 48-81.	0.1	0
16	Reliability-based Strength Amplification Factors for Structures with Asymmetric Yielding. <i>Journal of Earthquake Engineering</i> , 2018, 22, 36-62.	1.4	1
17	Seismic response and energy dissipation of 3D complex steel buildings considering the influence of interior semi-rigid connections: low- medium- and high-rise. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 5557-5590.	2.3	5
18	Review of Guidelines for Seismic Design of Structures with Damping Systems. <i>Open Civil Engineering Journal</i> , 2018, 12, 195-204.	0.4	4

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19	Wind-induced vibration control for buildings equipped with non-linear fluid viscous dampers. <i>Vibroengineering PROCEDIA</i> , 2018, 21, 119-124.	0.3	1
20	Direct Displacement-Based Design for Buildings with Hysteretic Dampers, using Best Combinations of Stiffness and Strength Ratios. <i>Journal of Earthquake Engineering</i> , 2017, 21, 752-775.	1.4	12
21	A new ground motion intensity measure I. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 99, 97-107.	1.9	34
22	Reliability-based optimal load factors for seismic design of buildings. <i>Engineering Structures</i> , 2017, 151, 527-539.	2.6	24
23	On the Seismic Design of Structures with Tilting Located within a Seismic Region. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1146.	1.3	3
24	Reliability-based optimal load factors for seismic design of buildings. , 2017, 151, 527-527.		1
25	Seismic response of complex 3D steel buildings with welded and post-tensioned connections. <i>Earthquake and Structures</i> , 2016, 11, 217-243.	1.0	3
26	Demands and distribution of hysteretic energy in moment resistant self-centering steel frames. <i>Steel and Composite Structures</i> , 2016, 20, 1155-1171.	1.3	16
27	Reliability over time of wind turbines steel towers subjected to fatigue. <i>Wind and Structures, an International Journal</i> , 2016, 23, 75-90.	0.8	4
28	Probabilistic seismic response transformation factors between SDOF and MDOF systems using artificial neural networks. <i>Journal of Vibroengineering</i> , 2016, 18, 2248-2262.	0.5	5
29	Time-Dependent Confidence Factor for Structures with Cumulative Damage. <i>Earthquake Spectra</i> , 2015, 31, 441-461.	1.6	10
30	Estimation of Cyclic Interstory Drift Capacity of Steel Framed Structures and Future Applications for Seismic Design. <i>Scientific World Journal, The</i> , 2014, 2014, 1-9.	0.8	0
31	Non-Gaussian Stochastic Equivalent Linearization Method for Inelastic Nonlinear Systems with Softening Behaviour, under Seismic Ground Motions. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-16.	0.6	4
32	An Efficient Approach to Obtain Optimal Load Factors for Structural Design. <i>Scientific World Journal, The</i> , 2014, 2014, 1-9.	0.8	1
33	Ductility and Strength Reduction Factors for Degrading Structures Considering Cumulative Damage. <i>Scientific World Journal, The</i> , 2014, 2014, 1-7.	0.8	2
34	Reduction Factors for Seismic Design Spectra for Structures with Viscous Energy Dampers. <i>Journal of Earthquake Engineering</i> , 2014, 18, 323-349.	1.4	17
35	On the Use of Vector-Valued Intensity Measure to Predict Peak and Cumulative Demands of Steel Frames under Narrow-Band Motions. <i>Applied Mechanics and Materials</i> , 2014, 595, 137-142.	0.2	2
36	Evaluation of the Response of Posttensioned Steel Frames with Energy Dissipators Using Equivalent Single-Degree-of-Freedom Systems. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-10.	1.0	3

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37	Influence of structural deterioration over time on the optimal time interval for inspection and maintenance of structures. <i>Engineering Structures</i> , 2014, 61, 22-30.	2.6	12
38	A New Spectral Shape-Based Record Selection Approach Using Genetic Algorithms. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	0.6	11
39	Time Intervals for Maintenance of Offshore Structures Based on Multiobjective Optimization. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-15.	0.6	7
40	Reduction of Maximum and Residual Drifts on Posttensioned Steel Frames with Semirigid Connections. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-11.	1.0	10
41	Response transformation factors for deterministic-based and reliability-based seismic design. <i>Structural Engineering and Mechanics</i> , 2013, 46, 755-773.	1.0	4
42	Prediction of Inelastic Response Spectra Using Artificial Neural Networks. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-15.	0.6	14
43	Simplified closed-form expressions for the mean failure rate of structures considering structural deterioration. <i>Structure and Infrastructure Engineering</i> , 2012, 8, 483-496.	2.0	10
44	Comparing vector-valued intensity measures for fragility analysis of steel frames in the case of narrow-band ground motions. <i>Engineering Structures</i> , 2012, 45, 472-480.	2.6	74
45	Estimation of the risk amplification in steel buildings subject to seismic actions using Monte Carlo simulation. , 2012, , 95-102.		0
46	Hysteretic model for steel energy absorbers and evaluation of a seismic design strategy using minimal-damage performance objectives. , 2012, , 867-874.		0
47	Behavior of self-centering buckling-restrained braces. , 2012, , 705-710.		0
48	Evaluation of Structural Reliability of Steel Frames: Interstory Drift versus Plastic Hysteretic Energy. <i>Earthquake Spectra</i> , 2011, 27, 661-682.	1.6	33
49	Accidental Eccentricity of Story Shear for Low-Rise Office Buildings. <i>Journal of Structural Engineering</i> , 2011, 137, 513-520.	1.7	9
50	Probabilities of Exceeding Different Limit States for Buildings Subjected to Narrow-Band Ground Motions. <i>Earthquake Spectra</i> , 2010, 26, 825-840.	1.6	5
51	Energy-based damage index for steel structures. <i>Steel and Composite Structures</i> , 2010, 10, 331-348.	1.3	49
52	Energy-based damage model for MDOF steel structures. , 2009, , .		0
53	Reliability-based evaluation of steel structures using energy concepts. <i>Engineering Structures</i> , 2008, 30, 1745-1759.	2.6	46
54	Design Approach Based on UAFR Spectra for Structures with Displacement-Dependent Dissipating Elements. <i>Earthquake Spectra</i> , 2007, 23, 417-439.	1.6	5

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55	Influence of structural capacity uncertainty on seismic reliability of buildings under narrow-band motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 1915-1934.	2.5	22
56	Structural reliability evaluation considering capacity degradation over time. <i>Engineering Structures</i> , 2007, 29, 2183-2192.	2.6	40
57	Seismic Design Method for Reliability-Based Rehabilitation of Buildings. <i>Earthquake Spectra</i> , 2006, 22, 189-214.	1.6	3
58	Design Algorithm Based on Probabilistic Seismic Demands for Buildings Rehabilitated with Hysteretic Energy-Dissipating Devices. <i>Earthquake Spectra</i> , 2004, 20, 503-521.	1.6	5
59	Performance-Based Design Approach for Seismic Rehabilitation of Buildings with Displacement-Dependent Dissipators. <i>Earthquake Spectra</i> , 2001, 17, 531-548.	1.6	6
60	Calibration of the equivalent linearization gaussian approach applied to simple hysteretic systems subjected to narrow band seismic motions. <i>Structural Safety</i> , 2000, 22, 211-231.	2.8	6
61	Influence of ground motion intensity on the effectiveness of tuned mass dampers. <i>Earthquake Engineering and Structural Dynamics</i> , 1999, 28, 1255-1271.	2.5	70
62	Design Live Loads for Classrooms in United States and Mexico. <i>Journal of Structural Engineering</i> , 1997, 123, 1652-1657.	1.7	2
63	Design Live Loads for Office Buildings in Mexico and the United States. <i>Journal of Structural Engineering</i> , 1997, 123, 816-822.	1.7	13
64	Stochastic seismic performance evaluation of tuned liquid column dampers. <i>Earthquake Engineering and Structural Dynamics</i> , 1997, 26, 875-876.	2.5	2
65	STOCHASTIC SEISMIC PERFORMANCE EVALUATION OF TUNED LIQUID COLUMN DAMPERS. <i>Earthquake Engineering and Structural Dynamics</i> , 1996, 25, 1259-1274.	2.5	70
66	Influence of the spatial distribution of energy-dissipating bracing elements on the seismic response of multistorey frames. <i>Earthquake Engineering and Structural Dynamics</i> , 1995, 24, 1511-1525.	2.5	5
67	Reliability of Short and Slender Reinforced Concrete Columns. <i>Journal of Structural Engineering</i> , 1994, 120, 1850-1865.	1.7	15
68	Influence of intensity of motion on the seismic response of structures with asymmetric force-deformation curves. <i>Earthquake Engineering and Structural Dynamics</i> , 1991, 20, 1-9.	2.5	3
69	Seismic Failure Rates of Multistorey Frames. <i>Journal of Structural Engineering</i> , 1989, 115, 268-284.	1.7	46
70	The Mexico Earthquake of September 19, 1985—Seismic Response of Asymmetrically Yielding Structures. <i>Earthquake Spectra</i> , 1989, 5, 103-111.	1.6	3
71	The Mexico Earthquake of September 19, 1985—The Seismic Performance of Buildings with Weak First Storey. <i>Earthquake Spectra</i> , 1989, 5, 89-102.	1.6	16
72	Discussion of “Evolutionary Kanai-Tajimi Earthquake Models” by Y. K. Lin and Yan Yong (August, 1987), <i>Tj</i>	1.8	0

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73	The Mexico Earthquake of September 19, 1985â€™ Nonstationary Models of Seismic Ground Acceleration. Earthquake Spectra, 1988, 4, 551-568.	1.6	51
74	Non-dimensional probabilistic coefficients for laterally loaded piles. Structural Safety, 1986, 4, 41-47.	2.8	3
75	Uncertainty about p-Ï Curves for Piles in Soft Clays. Journal of Geotechnical Engineering, 1986, 112, 594-607.	0.4	4
76	Reliability index for offshore piles subjected to bending. Structural Safety, 1984, 2, 83-90.	2.8	13
77	Displacement Spectra Damping Factors for Preliminary Design of Structures with Hysteretic Energy-Dissipation Devices. Journal of Earthquake Engineering, 0, , 1-24.	1.4	0