

# Eduardo Miranda

## 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.

60  
papers

2,249  
citations

23  
h-index

47  
g-index

67  
ext. papers

2,618  
ext. citations

3.4  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
60	Approximate Floor Acceleration Demands in Multistory Buildings. I: Formulation. <i>Journal of Structural Engineering</i> , <b>2005</b> , 131, 203-211	3	187
59	Significance of residual drifts in building earthquake loss estimation. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2012</b> , 41, 1477-1493	4	185
58	Inelastic displacement ratios for evaluation of existing structures. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2003</b> , 32, 1237-1258	4	177
57	Evaluation of approximate methods to estimate maximum inelastic displacement demands. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2002</b> , 31, 539-560	4	166
56	An efficient method for estimating the collapse risk of structures in seismic regions. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2013</b> , 42, 25-41	4	151
55	Average spectral acceleration as an intensity measure for collapse risk assessment. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2015</b> , 44, 2057-2073	4	145
54	Residual displacement ratios for assessment of existing structures. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2006</b> , 35, 315-336	4	128
53	Evaluation of Site-Dependent Inelastic Seismic Design Spectra. <i>Journal of Structural Engineering</i> , <b>1993</b> , 119, 1319-1338	3	110
52	Evaluation of residual drift demands in regular multi-storey frames for performance-based seismic assessment. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2006</b> , 35, 1609-1629	4	89
51	Inelastic displacement ratios for evaluation of structures built on soft soil sites. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2006</b> , 35, 679-694	4	83
50	Approximate Floor Acceleration Demands in Multistory Buildings. II: Applications. <i>Journal of Structural Engineering</i> , <b>2005</b> , 131, 212-220	3	63
49	Performance-Based Earthquake Engineering <b>2004</b> ,		63
48	Dynamic Instability of Simple Structural Systems. <i>Journal of Structural Engineering</i> , <b>2003</b> , 129, 1722-1726		56
47	Assessment of building behavior under near-fault pulse-like ground motions through simplified models. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2015</b> , 79, 47-58	3.5	52
46	Evaluation of damping reduction factors for estimating elastic response of structures with high damping. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2005</b> , 34, 1427-1443	4	47
45	Three-Dimensional Simulation and Visualization of Crane Assisted Construction Erection Processes. <i>Journal of Computing in Civil Engineering</i> , <b>2009</b> , 23, 363-371	5	45
44	Probabilistic estimation of maximum inelastic displacement demands for performance-based design. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2007</b> , 36, 1235-1254	4	44

43	Spectral shape metrics and structural collapse potential. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2016</b> , 45, 1643-1659	4	40
42	FRAGILITY ASSESSMENT OF SLAB-COLUMN CONNECTIONS IN EXISTING NON-DUCTILE REINFORCED CONCRETE BUILDINGS. <i>Journal of Earthquake Engineering</i> , <b>2005</b> , 9, 777-804	1.8	38
41	Fragility functions for masonry infill walls with in-plane loading. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2017</b> , 46, 2831-2850	4	29
40	Evaluation of Damping Ratios for the Seismic Analysis of Tall Buildings. <i>Journal of Structural Engineering</i> , <b>2017</b> , 143, 04016144	3	27
39	Seismic performance assessment of steel corrugated shear wall system using non-linear analysis. <i>Journal of Constructional Steel Research</i> , <b>2013</b> , 85, 48-59	3.8	27
38	Modelling considerations in probabilistic performance-based seismic evaluation: case study of the I-880 viaduct. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2006</b> , 35, 57-75	4	25
37	Evaluation of the Scaling Factor Bias Influence on the Probability of Collapse Using $S_a(T_1)$ as the Intensity Measure. <i>Earthquake Spectra</i> , <b>2019</b> , 35, 679-702	3.4	23
36	Full-Scale Dynamic Testing of a Sliding Seismically Isolated Unibody House. <i>Earthquake Spectra</i> , <b>2016</b> , 32, 2245-2270	3.4	23
35	Numerical Methods to Simulate and Visualize Detailed Crane Activities. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2009</b> , 24, 169-185	8.4	23
34	Filtered incremental velocity: A novel approach in intensity measures for seismic collapse estimation. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2019</b> , 48, 1384-1405	4	19
33	Evaluation of bias on the probability of collapse from amplitude scaling using spectral-shape-matched records. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2019</b> , 48, 970-986	4	18
32	Kinematic soil-structure interaction effects on maximum inelastic displacement demands of SDOF systems. <i>Bulletin of Earthquake Engineering</i> , <b>2008</b> , 6, 241-259	3.7	18
31	Uncertainty in intraevent spatial correlation of elastic pseudo-acceleration spectral ordinates. <i>Bulletin of Earthquake Engineering</i> , <b>2019</b> , 17, 1099-1115	3.7	17
30	Assessment of Numerical and Experimental Errors in Hybrid Simulation of Framed Structural Systems through Collapse. <i>Journal of Earthquake Engineering</i> , <b>2016</b> , 20, 885-909	1.8	12
29	Estimation of Maximum Roof Displacement Demands in Regular Multistory Buildings. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2010</b> , 136, 1-11	2.4	12
28	A Ground Motion Prediction Model for Average Spectral Acceleration. <i>Journal of Earthquake Engineering</i> , <b>2021</b> , 25, 319-342	1.8	12
27	Overview of collapsed buildings in Mexico City after the 19 September 2017 (Mw7.1) earthquake. <i>Earthquake Spectra</i> , <b>2020</b> , 36, 83-109	3.4	10
26	Development and Testing of a Friction/Sliding Connection to Improve the Seismic Performance of Gypsum Partition Walls. <i>Earthquake Spectra</i> , <b>2019</b> , 35, 653-677	3.4	10

25	Strength-reduction factors for the design of light nonstructural elements in buildings. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2020</b> , 49, 1329-1343	4	7
24	Significance of directivity effects during the 2011 Lorca earthquake in Spain. <i>Bulletin of Earthquake Engineering</i> , <b>2018</b> , 16, 2711-2728	3.7	7
23	Evolutionary modal identification utilizing coupled shear-flexural response: Implication for multistory buildings. Part I: Theory. <i>Structural Design of Tall and Special Buildings</i> , <b>2006</b> , 15, 51-65	1.8	7
22	Reliability of damping ratios inferred from the seismic response of buildings. <i>Engineering Structures</i> , <b>2019</b> , 184, 355-368	4.7	5
21	Evaluation of Relative Seismic Performance between One- and Two-Story Houses. <i>Journal of Earthquake Engineering</i> , <b>2019</b> , 1-30	1.8	5
20	Assessment of Effects of Reductions of Lateral Stiffness along Height on Buildings Modeled as Elastic Cantilever Shear Beams. <i>Journal of Earthquake Engineering</i> , <b>2018</b> , 22, 553-568	1.8	4
19	Estimation of base motion in instrumented steel buildings using output-only system identification. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2014</b> , 43, 547-563	4	4
18	Evaluation of FIV3 as an Intensity Measure for Collapse Estimation of Moment-Resisting Frame Buildings. <i>Journal of Structural Engineering</i> , <b>2020</b> , 146, 04020204	3	4
17	Fragility Curves and Methodology for Estimating Postearthquake Occupancy of Wood-Frame Single-Family Houses on a Regional Scale. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04021039	3	4
16	Intensity Measures for Regional Seismic Risk Assessment of Low-Rise Wood-Frame Residential Construction. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04020287	3	4
15	Evaluation of seismic displacement demands from the September 19, 2017 Puebla-Morelos (Mw = 7.1) earthquake in Mexico City. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2018</b> , 47, 2726-2732	4	3
14	Damping Ratios of the First Mode for the Seismic Analysis of Buildings. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04020300	3	3
13	The effect of spectral shape on damping modification factors. <i>Earthquake Spectra</i> , <b>2020</b> , 36, 2086-2111	3.4	2
12	Insights into damping ratios in buildings. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 916-934	3.4	2
11	Enhanced Two-Stripe Analysis for Efficient Estimation of the Probability of Collapse. <i>Journal of Earthquake Engineering</i> , <b>2019</b> , 1-24	1.8	1
10	Observations of Rayleigh waves in Mexico City Valley during the 19 September 2017 Puebla-Morelos, Mexico earthquake. <i>Earthquake Spectra</i> , <b>2020</b> , 36, 62-82	3.4	1
9	Relations between MaxRotD50 and Some Horizontal Components of Ground-Motion Intensity Used in Practice. <i>Bulletin of the Seismological Society of America</i> ,	2.3	1
8	Robustness evaluation of fiv3 using near-fault pulse-like ground motions. <i>Engineering Structures</i> , <b>2021</b> , 230, 111694	4.7	1

7	A simplified and versatile element model for elastomeric seismic isolation bearings. <i>Earthquake Spectra</i> ,875529302110309	3.4	1
6	Response spectral damping modification factors for structures built on soft soils. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2022</b> , 154, 107153	3.5	0
5	A ground motion prediction equation for filtered incremental velocity, FIV3. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2020</b> , 139, 106346	3.5	0
4	Proposal of orientation-independent measure of intensity for earthquake-resistant design. <i>Earthquake Spectra</i> ,875529302110382	3.4	0
3	An efficient method for estimating the collapse risk of structures in seismic regions <b>2013</b> , 42, 25		0
2	Evaluation of benefits at a regional scale of new strategies to improve the seismic performance of low-rise residential construction. <i>Bulletin of Earthquake Engineering</i> , <b>2020</b> , 18, 2783-2806	3.7	
1	Discussion of Post-earthquake fast damage assessment using residual displacement and seismic energy: Application to Mexico City. <i>Earthquake Spectra</i> ,875529302110688	3.4	