Andre R Barbosa

List of Publications by Year in Descending Order

85 papers	1,256 citations	22 h-index	31 g-index
101 ext. papers	1,636 ext. citations	2.9 avg, IF	5.11 L-index

#	Paper	IF	Citations
85	Tsunamis Effects in Man-Made Environment **2022**, 187-211		
84	Numerical Modelling of a Three-Story Building Using a Hybrid of Mass Timber Walls with Buckling-Restrained Braces. *Lecture Notes in Civil Engineering*, **2022**, 440-448	0.3	
83	Experimentally validated numerical models to assess tsunami hydrodynamic force on an elevated structure. *Engineering Structures*, **2021**, 249, 113280	4.7	
82	Full-Scale Shake Table Test Damage Data Collection Using Terrestrial Laser-Scanning Techniques. *Journal of Structural Engineering*, **2021**, 147, 04020356	3	4
81	Shake-Table Experimental Testing and Performance of Topped and Untopped Cross-Laminated Timber Diaphragms. *Journal of Structural Engineering*, **2021**, 147, 04021011	3	7
80	Structural health monitoring data collected during construction of a mass-timber building with a data platform for analysis. *Data in Brief*, **2021**, 35, 106845	1.2	3
79	Effect of disaster debris, floodwater pooling duration, and bridge damage on immediate post-tsunami connectivity. *International Journal of Disaster Risk Reduction*, **2021**, 56, 102119	4.5	4
78	System Identification of UCSD-NHERI Shake-Table Test of Two-Story Structure with Cross-Laminated Timber Rocking Walls. *Journal of Structural Engineering*, **2021**, 147, 04021018	3	4
77	Multihazard Damage and Loss Assessment of Bridges in a Highway Network Subjected to Earthquake and Tsunami Hazards. *Natural Hazards Review*, **2021**, 22, 05021002	3.5	1
76	Seismic demand model class uncertainty in seismic loss analysis for a code-designed URM infilled RC frame building. *Bulletin of Earthquake Engineering*, **2021**, 19, 429-462	3.7	5
75	Fundamental Behavior of Timber Concrete-Composite Floors in Fire. *Journal of Structural Engineering*, **2021**, 147, 04020340	3	6
74	A methodological approach for structural health monitoring of mass-timber buildings under construction. *Construction and Building Materials*, **2021**, 268, 121153	6.7	8
73	Application of Fragility Analysis to Timber-Framed Structures for Seismic and Robustness Assessments. *Lecture Notes in Civil Engineering*, **2021**, 165-177	0.3	1
72	Effect of Wetting and Redrying on Performance of Cross-Laminated Timber Angle Bracket Connection. *Journal of Structural Engineering*, **2021**, 147, 04021121	3	4
71	In-Plane Shear Cyclic Performance of Spline Cross-Laminated Timber-Concrete Composite Diaphragms. *Journal of Structural Engineering*, **2021**, 147, 04021148	3	1
70	Physical modeling of progressive damage and failure of wood-frame coastal residential structures due to surge and wave forces. *Coastal Engineering*, **2021**, 169, 103959	4.8	4
69	Tsunami-Like Wave Forces on an Elevated Coastal Structure: Effects of Flow Shielding and Channeling. *Journal of Waterway, Port, Coastal and Ocean Engineering*, **2020**, 146, 04020021	1.7	11

#	Reference	IF	Citations
68	Experimental Investigation and Modeling of Thermal Effects on a Typical Cross-Laminated Timber Bracket Shear Connection. *Journal of Materials in Civil Engineering*, **2020**, 32, 04020111	3	3
67	Tsunami-Like Wave-Induced Lateral and Uplift Pressures and Forces on an Elevated Coastal Structure. *Journal of Waterway, Port, Coastal and Ocean Engineering*, **2020**, 146, 04020008	1.7	9
66	An expert opinion survey on post-hazard restoration of roadways and bridges: Data and key insights. *Earthquake Spectra*, **2020**, 36, 983-1004	3.4	9
65	Case study: Post-earthquake model updating of a heritage pagoda masonry temple using AEM and FEM. *Engineering Structures*, **2020**, 206, 109950	4.7	9
64	Design of timber-concrete composite floors for fire **2020**,		2
63	Elevated Temperature Effects on Performance of a Cross-Laminated Timber Floor-to-Wall Bracket Connections. *Journal of Structural Engineering*, **2020**, 146, 04020173	3	2
62	Cyclic performance of in-plane shear cross-laminated timber panel-to-panel surface spline connections. *Engineering Structures*, **2020**, 218, 110726	4.7	4
61	Conceptual Evaluation of Tsunami Debris Field Damming and Impact Forces. *Journal of Waterway, Port, Coastal and Ocean Engineering*, **2020**, 146, 04020039	1.7	5
60	Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina, Flood: An Interdisciplinary Approach. *Natural Hazards Review*, **2020**, 21, 04020029	3.5	22
59	Experimental Seismic Response of a Resilient 2-Story Mass-Timber Building with Post-Tensioned Rocking Walls. *Journal of Structural Engineering*, **2019**, 145, 04019120	3	50
58	Performance-Based Tsunami Engineering for Risk Assessment of Structures Subjected to Multi-Hazards: Tsunami following Earthquake. *Journal of Earthquake Engineering*, **2019**, 1-20	1.8	11
57	Multi-Hazard Resilience Assessment of a Coastal Community Due to Offshore Earthquakes. *Journal of Earthquake and Tsunami*, **2019**, 13, 1950008	1.1	8
56	Natural Hazards Challenges to Civil Engineering. *Advances in Civil Engineering*, **2019**, 2019, 1-2	1.3	
55	Experimental and applied element modeling of masonry walls retrofitted with near surface mounted (NSM) reinforcing steel bars. *Bulletin of Earthquake Engineering*, **2019**, 17, 4081-4114	3.7	6
54	Full-Scale Shake Table Testing of Cross-Laminated Timber Rocking Shear Walls with Replaceable Components. *Journal of Structural Engineering*, **2019**, 145, 04019115	3	27
53	Ambient Vibration Measurement Data of a Four-Story Mass Timber Building. *Frontiers in Built Environment*, **2019**, 5,	2.2	3
52	Probabilistic decision-support framework for community resilience: Incorporating multi-hazards, infrastructure interdependencies, and resilience goals in a Bayesian network. *Reliability Engineering and System Safety*, **2019**, 191, 106568	6.3	40
51	Tension and Cyclic Behavior of High-Performance Fiber-Reinforced Cementitious Composites. *Journal of Materials in Civil Engineering*, **2019**, 31, 04019220	3	3

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50	Monitored Indoor Environmental Quality of a Mass Timber Office Building: A Case Study. *Buildings*, **2019**, 9, 142	3.2	7
49	Dynamic Characterization and Vibration Analysis of a Four-Story Mass Timber Building. *Frontiers in Built Environment*, **2019**, 5,	2.2	8
48	SEISMIC LOSS ANALYSIS OF A MODERN RC BUILDING ACCOUNTING FOR UNCERTAINTY OF INFILL STRUT MODELING PARAMETERS **2019**,		3
47	Probabilistic seismic and tsunami damage analysis (PSTDA) of the Cascadia Subduction Zone applied to Seaside, Oregon. *International Journal of Disaster Risk Reduction*, **2019**, 35, 101076	4.5	21
46	Role of Torsional Shear in Combined Loading of Drilled Shaft Foundations. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2019**, 145, 06019001	3.4	4
45	Hysteretic Response of Metal Connections on Hybrid Cross-Laminated Timber Panels. *Journal of Structural Engineering*, **2019**, 145, 04018237	3	12
44	Hurricanes Irma and Maria post-event survey in US Virgin Islands. *Coastal Engineering Journal*, **2019**, 61, 121-134	2.8	23
43	Experimental seismic behavior of a two-story CLT platform building. *Engineering Structures*, **2019**, 183, 408-422	4.7	43
42	Multihazard Earthquake and Tsunami Effects on Soil Foundation Bridge Systems. *Journal of Bridge Engineering*, **2019**, 24, 04019004	2.7	16
41	Environmental response of a CLT floor panel: Lessons for moisture management and monitoring of mass timber buildings. *Building and Environment*, **2019**, 148, 609-622	6.5	36
40	Development of Physics-Based Tsunami Fragility Functions Considering Structural Member Failures. *Journal of Structural Engineering*, **2018**, 144, 04017221	3	31
39	Seismic assessment of a heavy-timber frame structure with ring-doweled moment-resisting connections. *Bulletin of Earthquake Engineering*, **2018**, 16, 1341-1371	3.7	3
38	Seismic Assessment of a School Building in Nepal and Analysis of Retrofitting Solutions. *International Journal of Civil Engineering*, **2018**, 16, 1573-1589	1.9	10
37	Performance of Shear Specimens Reinforced with High-Strength Reinforcing Bars. *ACI Structural Journal*, **2018**, 115,	1.7	3
36	Post-earthquake Field Measurement-Based System Identification and Finite Element Modeling of an 18-Story Masonry-Infilled RC Building. *Lecture Notes in Civil Engineering*, **2018**, 746-757	0.3	1
35	Probabilistic seismic demand assessment accounting for finite element model class uncertainty: Application to a code-designed URM infilled reinforced concrete frame building. *Earthquake Engineering and Structural Dynamics*, **2018**, 47, 2901-2920	4	9
34	Probabilistic Tsunami Hazard Assessment (PTHA) for resilience assessment of a coastal community. *Natural Hazards*, **2018**, 94, 1117-1139	3	10
33	Seismic Performance of Buildings in Nepal After the Gorkha Earthquake **2018**, 47-63		14

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32	Lateral and Withdrawal Capacity of Fasteners on Hybrid Cross-Laminated Timber Panels. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018226	3	6
31	Influence of earthquake ground-motion duration on damage estimation: application to steel moment resisting frames. *Earthquake Engineering and Structural Dynamics*, **2017**, 46, 27-49	4	39
30	Comparison of inundation depth and momentum flux based fragilities for probabilistic tsunami damage assessment and uncertainty analysis. *Coastal Engineering*, **2017**, 122, 10-26	4.8	37
29	Effect of High-Strength Reinforcement Steel on Shear Friction Behavior. *Journal of Bridge Engineering*, **2017**, 22, 04017038	2.7	11
28	Torsional Load Transfer of Drilled Shaft Foundations. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2017**, 143, 04017036	3.4	10
27	Performance-Based Tsunami Engineering methodology for risk assessment of structures. *Engineering Structures*, **2017**, 141, 676-686	4.7	37
26	Methodology for Development of Physics-Based Tsunami Fragilities. *Journal of Structural Engineering*, **2017**, 143, 04016223	3	32
25	Implementation and Calibration of Finite-Length Plastic Hinge Elements for Use in Seismic Structural Collapse Analysis. *Journal of Earthquake Engineering*, **2017**, 21, 1197-1219	1.8	9
24	Damage Reconnaissance of Unreinforced Masonry Bearing Wall Buildings after the 2015 Gorkha, Nepal, Earthquake. *Earthquake Spectra*, **2017**, 33, 243-273	3.4	40
23	Performance of Medium-to-High Rise Reinforced Concrete Frame Buildings with Masonry Infill in the 2015 Gorkha, Nepal, Earthquake. *Earthquake Spectra*, **2017**, 33, 197-218	3.4	30
22	Influence of ground motion duration on damage index-based fragility assessment of a plan-asymmetric non-ductile reinforced concrete building. *Engineering Structures*, **2017**, 151, 682-703	4.7	32
21	Nonlinear model calibration of a shear wall building using time and frequency data features. *Mechanical Systems and Signal Processing*, **2017**, 85, 236-251	7.8	23
20	Multiple-Hazard Fragility and Restoration Models of Highway Bridges for Regional Risk and Resilience Assessment in the United States: State-of-the-Art Review. *Journal of Structural Engineering*, **2017**, 143, 04016188	3	91
19	Structural Identification of an 18-Story RC Building in Nepal Using Post-Earthquake Ambient Vibration and Lidar Data. *Frontiers in Built Environment*, **2017**, 3,	2.2	16
18	Probabilistic Seismic and Tsunami Hazard Analysis Conditioned on a Megathrust Rupture of the Cascadia Subduction Zone. *Frontiers in Built Environment*, **2017**, 3,	2.2	17
17	Performance of Steel Energy Dissipators Connected to Cross-Laminated Timber Wall Panels Subjected to Tension and Cyclic Loading. *Journal of Structural Engineering*, **2016**, 142,	3	30
16	Seismic Performance of High-Strength Steel RC Bridge Columns. *Journal of Bridge Engineering*, **2016**, 21, 04015044	2.7	22
15	Effect of Reinforcement Grade and Ratio on Seismic Performance of Reinforced Concrete Columns. *ACI Structural Journal*, **2016**, 113,	1.7	17

14	Structural Assessment of a School Building in Sankhu, Nepal Damaged Due to Torsional Response During the 2015 Gorkha Earthquake. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 31-41	0.3	10
13	Deterioration Modeling of Steel Moment Resisting Frames Using Finite-Length Plastic Hinge Force-Based Beam-Column Elements. *Journal of Structural Engineering*, **2015**, 141, 04014112	3	16
12	TSUNAMI LOADINGS ON STRUCTURES: REVIEW AND ANALYSIS. *Coastal Engineering Proceedings*, **2015**, 1, 4	1.4	38
11	Uncertainty analysis of system identification results obtained for a seven-story building slice tested on the UCSD-NEES shake table. *Structural Control and Health Monitoring*, **2014**, 21, 466-483	4.5	31
10	Application of Lean Construction Concepts to Manage the Submittal Process in AEC Projects. *Journal of Management in Engineering - ASCE*, **2014**, 30, 05014006	5.3	9
9	Application of Reliability-Based Robustness Assessment of Steel Moment Resisting Frame Structures under Post-Mainshock Cascading Events. *Journal of Structural Engineering*, **2014**, 140,	3	29
8	Mapped Workflow for Safety and Reliability Assessments of Use and Reuse of Formwork **2014**,		4
7	Viability of Hybrid Poplar in ANSI Approved Cross-Laminated Timber Applications. *Journal of Materials in Civil Engineering*, **2014**, 26, 06014009	3	23
6	Nonlinear Identification of a Seven-Story Shear Wall Building Based on Numerically Simulated Seismic Data. *Conference Proceedings of the Society for Experimental Mechanics*, **2014**, 245-254	0.3	4
5	Probabilistic seismic response analysis of a 3-D reinforced concrete building. *Structural Safety*, **2013**, 44, 11-27	4.9	28
4	Seismic Assessment of R/C Building Structure through Nonlinear Probabilistic Analysis with High-performance Computing. *AIP Conference Proceedings*, **2008**,	0	2
3	Implementation of an hybrid-mixed stress model based on the use of wavelets. *Computers and Structures*, **2006**, 84, 718-731	4.5	12
2	Use of High Performance Computing for Probabilistic Seismic Response Sensitivity Analyses of a Building Structure		2
1	A taxonomy of bridges at risk of flooding: towards bridge classes and damage models. *Proceedings of the Institution of Civil Engineers: Bridge Engineering*, 1-7	0.5	0