

Andre R Barbosa

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

2,055
citations

218381

26
h-index

288905

40
g-index

101
all docs

101
docs citations

101
times ranked

1459
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple-Hazard Fragility and Restoration Models of Highway Bridges for Regional Risk and Resilience Assessment in the United States: State-of-the-Art Review. <i>Journal of Structural Engineering</i> , 2017, 143, .	1.7	129
2	Experimental Seismic Response of a Resilient 2-Story Mass-Timber Building with Post-Tensioned Rocking Walls. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	86
3	Probabilistic decision-support framework for community resilience: Incorporating multi-hazards, infrastructure interdependencies, and resilience goals in a Bayesian network. <i>Reliability Engineering and System Safety</i> , 2019, 191, 106568.	5.1	75
4	Influence of earthquake ground motion duration on damage estimation: application to steel moment resisting frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 27-49.	2.5	63
5	Comparison of inundation depth and momentum flux based fragilities for probabilistic tsunami damage assessment and uncertainty analysis. <i>Coastal Engineering</i> , 2017, 122, 10-26.	1.7	61
6	Experimental seismic behavior of a two-story CLT platform building. <i>Engineering Structures</i> , 2019, 183, 408-422.	2.6	61
7	Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina, Flood: An Interdisciplinary Approach. <i>Natural Hazards Review</i> , 2020, 21, .	0.8	56
8	Damage Reconnaissance of Unreinforced Masonry Bearing Wall Buildings after the 2015 Gorkha, Nepal, Earthquake. <i>Earthquake Spectra</i> , 2017, 33, 243-273.	1.6	55
9	Performance-Based Tsunami Engineering methodology for risk assessment of structures. <i>Engineering Structures</i> , 2017, 141, 676-686.	2.6	54
10	Environmental response of a CLT floor panel: Lessons for moisture management and monitoring of mass timber buildings. <i>Building and Environment</i> , 2019, 148, 609-622.	3.0	53
11	Influence of ground motion duration on damage index-based fragility assessment of a plan-asymmetric non-ductile reinforced concrete building. <i>Engineering Structures</i> , 2017, 151, 682-703.	2.6	51
12	Performance of Medium-to-High Rise Reinforced Concrete Frame Buildings with Masonry Infill in the 2015 Gorkha, Nepal, Earthquake. <i>Earthquake Spectra</i> , 2017, 33, 197-218.	1.6	49
13	TSUNAMI LOADINGS ON STRUCTURES: REVIEW AND ANALYSIS. <i>Coastal Engineering Proceedings</i> , 2015, 1, 4.	0.1	48
14	Performance of Steel Energy Dissipators Connected to Cross-Laminated Timber Wall Panels Subjected to Tension and Cyclic Loading. <i>Journal of Structural Engineering</i> , 2016, 142, .	1.7	43
15	Methodology for Development of Physics-Based Tsunami Fragilities. <i>Journal of Structural Engineering</i> , 2017, 143, .	1.7	42
16	Development of Physics-Based Tsunami Fragility Functions Considering Structural Member Failures. <i>Journal of Structural Engineering</i> , 2018, 144, .	1.7	42
17	Probabilistic seismic and tsunami damage analysis (PSTDA) of the Cascadia Subduction Zone applied to Seaside, Oregon. <i>International Journal of Disaster Risk Reduction</i> , 2019, 35, 101076.	1.8	42
18	Application of Reliability-Based Robustness Assessment of Steel Moment Resisting Frame Structures under Post-Mainshock Cascading Events. <i>Journal of Structural Engineering</i> , 2014, 140, .	1.7	39

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19	Full-Scale Shake Table Testing of Cross-Laminated Timber Rocking Shear Walls with Replaceable Components. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	39
20	Viability of Hybrid Poplar in ANSI Approved Cross-Laminated Timber Applications. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, .	1.3	38
21	Uncertainty analysis of system identification results obtained for a seven-story building slice tested on the UCSD-NEES shake table. <i>Structural Control and Health Monitoring</i> , 2014, 21, 466-483.	1.9	37
22	Nonlinear model calibration of a shear wall building using time and frequency data features. <i>Mechanical Systems and Signal Processing</i> , 2017, 85, 236-251.	4.4	34
23	Probabilistic seismic response analysis of a 3-D reinforced concrete building. <i>Structural Safety</i> , 2013, 44, 11-27.	2.8	33
24	Seismic Performance of High-Strength Steel RC Bridge Columns. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	32
25	Multihazard Earthquake and Tsunami Effects on Soil-â€œFoundationâ€œBridge Systems. <i>Journal of Bridge Engineering</i> , 2019, 24, .	1.4	32
26	Hurricanes Irma and Maria post-event survey in US Virgin Islands. <i>Coastal Engineering Journal</i> , 2019, 61, 121-134.	0.7	30
27	Seismic Performance of Buildings in Nepal After the Gorkha Earthquake. , 2018, , 47-63.		28
28	Probabilistic Seismic and Tsunami Hazard Analysis Conditioned on a Megathrust Rupture of the Cascadia Subduction Zone. <i>Frontiers in Built Environment</i> , 2017, 3, .	1.2	27
29	Tsunami-Like Wave Forces on an Elevated Coastal Structure: Effects of Flow Shielding and Channeling. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2020, 146, .	0.5	27
30	Effect of Reinforcement Grade and Ratio on Seismic Performance of Reinforced Concrete Columns. <i>ACI Structural Journal</i> , 2016, 113, .	0.3	27
31	Performance-Based Tsunami Engineering for Risk Assessment of Structures Subjected to Multi-Hazards: Tsunami following Earthquake. <i>Journal of Earthquake Engineering</i> , 0, , 1-20.	1.4	23
32	Structural Identification of an 18-Story RC Building in Nepal Using Post-Earthquake Ambient Vibration and Lidar Data. <i>Frontiers in Built Environment</i> , 2017, 3, .	1.2	22
33	Deterioration Modeling of Steel Moment Resisting Frames Using Finite-Length Plastic Hinge Force-Based Beam-Column Elements. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	21
34	Experimental and applied element modeling of masonry walls retrofitted with near surface mounted (NSM) reinforcing steel bars. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 4081-4114.	2.3	20
35	Probabilistic Tsunami Hazard Assessment (PTHA) for resilience assessment of a coastal community. <i>Natural Hazards</i> , 2018, 94, 1117-1139.	1.6	19
36	Tsunami-Like Wave-Induced Lateral and Uplift Pressures and Forces on an Elevated Coastal Structure. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2020, 146, .	0.5	19

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37	Case study: Post-earthquake model updating of a heritage pagoda masonry temple using AEM and FEM. <i>Engineering Structures</i> , 2020, 206, 109950.	2.6	19
38	Torsional Load Transfer of Drilled Shaft Foundations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	1.5	18
39	An expert opinion survey on post-hazard restoration of roadways and bridges: Data and key insights. <i>Earthquake Spectra</i> , 2020, 36, 983-1004.	1.6	18
40	A methodological approach for structural health monitoring of mass-timber buildings under construction. <i>Construction and Building Materials</i> , 2021, 268, 121153.	3.2	18
41	Implementation and Calibration of Finite-Length Plastic Hinge Elements for Use in Seismic Structural Collapse Analysis. <i>Journal of Earthquake Engineering</i> , 2017, 21, 1197-1219.	1.4	15
42	Dynamic Characterization and Vibration Analysis of a Four-Story Mass Timber Building. <i>Frontiers in Built Environment</i> , 2019, 5, .	1.2	15
43	Multi-Hazard Resilience Assessment of a Coastal Community Due to Offshore Earthquakes. <i>Journal of Earthquake and Tsunami</i> , 2019, 13, .	0.7	15
44	Hysteretic Response of Metal Connections on Hybrid Cross-Laminated Timber Panels. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	15
45	Shake-Table Experimental Testing and Performance of Topped and Untopped Cross-Laminated Timber Diaphragms. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	15
46	Effect of High-Strength Reinforcement Steel on Shear Friction Behavior. <i>Journal of Bridge Engineering</i> , 2017, 22, 04017038.	1.4	14
47	Seismic Assessment of a School Building in Nepal and Analysis of Retrofitting Solutions. <i>International Journal of Civil Engineering</i> , 2018, 16, 1573-1589.	0.9	14
48	Conceptual Evaluation of Tsunami Debris Field Damming and Impact Forces. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2020, 146, .	0.5	14
49	Seismic demand model class uncertainty in seismic loss analysis for a code-designed URM infilled RC frame building. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 429-462.	2.3	14
50	Effect of disaster debris, floodwater pooling duration, and bridge damage on immediate post-tsunami connectivity. <i>International Journal of Disaster Risk Reduction</i> , 2021, 56, 102119.	1.8	14
51	Physical modeling of progressive damage and failure of wood-frame coastal residential structures due to surge and wave forces. <i>Coastal Engineering</i> , 2021, 169, 103959.	1.7	14
52	Application of Lean Construction Concepts to Manage the Submittal Process in AEC Projects. <i>Journal of Management in Engineering - ASCE</i> , 2014, 30, .	2.6	13
53	Probabilistic seismic demand assessment accounting for finite element model class uncertainty: Application to a code-designed URM infilled reinforced concrete frame building. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 2901-2920.	2.5	13
54	Fundamental Behavior of Timber Concrete-Composite Floors in Fire. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	13

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55	System Identification of UCSD-NHERI Shake-Table Test of Two-Story Structure with Cross-Laminated Timber Rocking Walls. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	13
56	Implementation of an hybrid-mixed stress model based on the use of wavelets. <i>Computers and Structures</i> , 2006, 84, 718-731.	2.4	12
57	Multihazard Damage and Loss Assessment of Bridges in a Highway Network Subjected to Earthquake and Tsunami Hazards. <i>Natural Hazards Review</i> , 2021, 22, .	0.8	12
58	Structural Assessment of a School Building in Sankhu, Nepal Damaged Due to Torsional Response During the 2015 Gorkha Earthquake. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 31-41.	0.3	11
59	Monitored Indoor Environmental Quality of a Mass Timber Office Building: A Case Study. <i>Buildings</i> , 2019, 9, 142.	1.4	11
60	Effect of Wetting and Redrying on Performance of Cross-Laminated Timber Angle Bracket Connection. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	11
61	Lateral and Withdrawal Capacity of Fasteners on Hybrid Cross-Laminated Timber Panels. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	9
62	Tension and Cyclic Behavior of High-Performance Fiber-Reinforced Cementitious Composites. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, 04019220.	1.3	9
63	Cyclic performance of in-plane shear cross-laminated timber panel-to-panel surface spline connections. <i>Engineering Structures</i> , 2020, 218, 110726.	2.6	9
64	Structural health monitoring data collected during construction of a mass-timber building with a data platform for analysis. <i>Data in Brief</i> , 2021, 35, 106845.	0.5	9
65	In-Plane Shear Cyclic Performance of Spline Cross-Laminated Timber-Concrete Composite Diaphragms. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	9
66	Full-Scale Shake Table Test Damage Data Collection Using Terrestrial Laser-Scanning Techniques. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	8
67	Seismic assessment of a heavy-timber frame structure with ring-doweled moment-resisting connections. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 1341-1371.	2.3	7
68	Elevated Temperature Effects on Performance of a Cross-Laminated Timber Floor-to-Wall Bracket Connections. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	7
69	Experimental Investigation and Modeling of Thermal Effects on a Typical Cross-Laminated Timber Bracket Shear Connection. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	7
70	Mapped Workflow for Safety and Reliability Assessments of Use and Reuse of Formwork. , 2014, , .		6
71	Tsunamis Effects in Man-Made Environment. , 2015, , 1-27.		6
72	Ambient Vibration Measurement Data of a Four-Story Mass Timber Building. <i>Frontiers in Built Environment</i> , 2019, 5, .	1.2	5

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73	Role of Torsional Shear in Combined Loading of Drilled Shaft Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	5
74	Modeling Regional and Local Resilience of Infrastructure Networks Following Disruptions from Natural Hazards. Journal of Infrastructure Systems, 2022, 28, .	1.0	5
75	Seismic Assessment of Râ•C Building Structure through Nonlinear Probabilistic Analysis with High-performance Computing. AIP Conference Proceedings, 2008, , .	0.3	4
76	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
77	Performance of Shear Specimens Reinforced with High-Strength Reinforcing Bars. ACI Structural Journal, 2018, 115, .	0.3	4
78	SEISMIC LOSS ANALYSIS OF A MODERN RC BUILDING ACCOUNTING FOR UNCERTAINTY OF INFILL STRUT MODELING PARAMETERS. , 2019, , .		4
79	Design of timber-concrete composite floors for fire. , 2020, , .		3
80	Experimentally validated numerical models to assess tsunami hydrodynamic force on an elevated structure. Engineering Structures, 2021, 249, 113280.	2.6	3
81	EXPERIMENTAL MODELING OF WAVE FORCES AND HYDRODYNAMICS ON ELEVATED COASTAL STRUCTURES SUBJECT TO WAVES, SURGE OR TSUNAMIS: THE EFFECT OF BREAKING, SHIELDING AND DEBRIS. Coastal Engineering Proceedings, 2018, , 53.	0.1	3
82	Probabilistic Structural System Response to Differential Settlement Resulting from Spatially Variable Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	3
83	Use of High Performance Computing for Probabilistic Seismic Response Sensitivity Analyses of a Building Structure. , 0, , .		2
84	A taxonomy of bridges at risk of flooding: towards bridge classes and damage models. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2022, 175, 172-178.	0.3	2
85	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
86	Fragility Assessment of Pre-Northridge Steel Moment Frames Using Finite-Length Plastic Hinge Elements and Concentrated Plasticity Fracture Elements. CMES - Computer Modeling in Engineering and Sciences, 2019, 120, 657-676.	0.8	1
87	Numerical Modeling Strategy for the Simulation of Nonlinear Response of Slender Reinforced Concrete Structural Walls. CMES - Computer Modeling in Engineering and Sciences, 2019, 120, 583-627.	0.8	1
88	Earthquake and Tsunami Resiliency Assessment for a Coastal Community in the Pacific Northwest, USA. , 2017, , .		0
89	Natural Hazards Challenges to Civil Engineering. Advances in Civil Engineering, 2019, 2019, 1-2.	0.4	0
90	Numerical Assessment of URM Infilled RC Frames Retrofitted With Near-Surface Mounted Reinforcing Steel Bars. Frontiers in Built Environment, 2020, 6, .	1.2	0

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91	Tsunamis Effects in Man-Made Environment. , 2022, , 187-211.		0
92	SEISMIC LOSS ANALYSIS OF A CODE-DESIGNED INFILLED RC BUILDING ACCOUNTING FOR INFILL MODEL CLASS UNCERTAINTY. , 2021, , .		0
93	Assessing, Coding, and Marking of Highway Structures in Emergency Situations, Volume 2: Assessment Process Manual. , 2016, , .		0
94	Assessing, Coding, and Marking of Highway Structures in Emergency Situations, Volume 1: Research Overview. , 2016, , .		0
95	HURRICANES IRMA/MARIA IN THE USVI: JOINT JSCE-NSF FIELD RECONNAISSANCE AND THE USE OF UAVS FOR GEOSPATIAL DISASTER DATA. Coastal Engineering Proceedings, 2018, , 60.	0.1	0
96	LOADING AND STRUCTURAL RESPONSE OF DEVELOPED SHORELINES UNDER WAVES, SURGE, AND TSUNAMI OVERLAND FLOW HAZARDS. Coastal Engineering Proceedings, 2020, , 36.	0.1	0
97	Validated Uniaxial Stress-Strain Model for Cyclic Analysis of High-Performance Fiber-Reinforced Cementitious Composites. Journal of Structural Engineering, 2022, 148, .	1.7	0