

Gilberto Mosqueda

List of Publications by Year in descending order

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75
papers

2,329
citations

201674

27
h-index

223800

46
g-index

75
all docs

75
docs citations

75
times ranked

1260
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of Nonstructural Components during the 27 February 2010 Chile Earthquake. <i>Earthquake Spectra</i> , 2012, 28, 453-471.	3.1	207
2	DesignSafe: New Cyberinfrastructure for Natural Hazards Engineering. <i>Natural Hazards Review</i> , 2017, 18, .	1.5	195
3	Characterization and Modeling of Friction Pendulum Bearings Subjected to Multiple Components of Excitation. <i>Journal of Structural Engineering</i> , 2004, 130, 433-442.	3.4	162
4	Compensation of actuator delay and dynamics for real-time hybrid structural simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2008, 37, 21-42.	4.4	155
5	Experimental simulation of base-isolated buildings pounding against moat wall and effects on superstructure response. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 2093-2109.	4.4	87
6	Experimental Seismic Fragility of Cold-Formed Steel Framed Gypsum Partition Walls. <i>Journal of Structural Engineering</i> , 2013, 139, 1285-1293.	3.4	86
7	Static and Dynamic Stability of Elastomeric Bearings for Seismic Protection of Structures. <i>Journal of Structural Engineering</i> , 2013, 139, 1149-1159.	3.4	75
8	Isolation and characterization of the gene from <i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> encoding the phaseolotoxin-insensitive ornithine carbamoyltransferase. <i>Molecular Genetics and Genomics</i> , 1990, 222, 461-466.	2.4	68
9	Real-Time Error Monitoring for Hybrid Simulation. Part I: Methodology and Experimental Verification. <i>Journal of Structural Engineering</i> , 2007, 133, 1100-1108.	3.4	61
10	Analytical and Numerical Investigation of Quasi-Zero Stiffness Vertical Isolation System. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	2.9	59
11	Real-Time Error Monitoring for Hybrid Simulation. Part II: Structural Response Modification due to Errors. <i>Journal of Structural Engineering</i> , 2007, 133, 1109-1117.	3.4	51
12	Event-Driven Control System for Geographically Distributed Hybrid Simulation. <i>Journal of Structural Engineering</i> , 2006, 132, 68-77.	3.4	47
13	Impact model for simulation of base isolated buildings impacting flexible moat walls. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 357-376.	4.4	46
14	Seismic Simulation of an Integrated Ceiling-Partition Wall-Piping System at E-Defense. II: Evaluation of Nonstructural Damage and Fragilities. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	43
15	Testing Protocol for Experimental Seismic Qualification of Distributed Nonstructural Systems. <i>Earthquake Spectra</i> , 2011, 27, 835-856.	3.1	42
16	Innovative substructuring technique for hybrid simulation of multistory buildings through collapse. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 2059-2074.	4.4	42
17	Seismic Rehabilitation of Concentrically Braced Frames Using Stiff Rocking Cores. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	41
18	Implementation of online model updating in hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 395-412.	4.4	40

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19	Finite Element Simulation of Concrete-Filled Double-Skin Tube Columns Subjected to Postearthquake Fires. <i>Journal of Structural Engineering</i> , 2015, 141, .	3.4	39
20	Performance evaluation of a distributed hybrid test framework to reproduce the collapse behavior of a structure. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 295-313.	4.4	38
21	Experimental Seismic Fragility of Pressurized Fire Suppression Sprinkler Piping Joints. <i>Earthquake Spectra</i> , 2014, 30, 1733-1748.	3.1	37
22	Large-Scale Hybrid Simulation of a Steel Moment Frame Building Structure through Collapse. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	37
23	Assessing the Collapse Probability of Base-Isolated Buildings considering Pounding to Moat Walls using the FEMA P695 Methodology. <i>Earthquake Spectra</i> , 2015, 31, 2069-2086.	3.1	36
24	Experimental Study on Post-Earthquake Fire Resistance of Ductile Concrete-Filled Double-Skin Tube Columns. <i>Journal of Structural Engineering</i> , 2015, 141, .	3.4	36
25	Testing facility for experimental evaluation of non-structural components under full-scale floor motions. <i>Structural Design of Tall and Special Buildings</i> , 2009, 18, 387-404.	1.9	34
26	Aseismic roof isolation system: analytic and shake table studies. <i>Earthquake Engineering and Structural Dynamics</i> , 1999, 28, 217-234.	4.4	31
27	Seismic Response of Pressurized Fire Sprinkler Piping Systems I: Experimental Study. <i>Journal of Earthquake Engineering</i> , 2015, 19, 649-673.	2.5	30
28	Hybrid Testing of the Stiff Rocking Core Seismic Rehabilitation Technique. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	26
29	Coupled horizontal-vertical stability of bearings under dynamic loading. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 913-934.	4.4	25
30	Online energy-based error indicator for the assessment of numerical and experimental errors in a hybrid simulation. <i>Engineering Structures</i> , 2009, 31, 1987-1996.	5.3	24
31	Iterative implicit integration procedure for hybrid simulation of large nonlinear structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 945-960.	4.4	24
32	Dynamic Lateral Stability of Elastomeric Seismic Isolation Bearings. <i>Journal of Structural Engineering</i> , 2014, 140, .	3.4	24
33	Seismic response of base isolated nuclear power plants considering impact to moat walls. <i>Nuclear Engineering and Design</i> , 2018, 328, 58-72.	1.7	24
34	Shaking Table Tests Examining Seismic Response of Suspended Ceilings Attached to Large-Span Spatial Structures. <i>Journal of Structural Engineering</i> , 2018, 144, .	3.4	23
35	Fast Hybrid Simulation with Geographically Distributed Substructures. , 2006, , .		22
36	Hybrid Seismic Response Simulation on a Geographically Distributed Bridge Model. <i>Journal of Structural Engineering</i> , 2008, 134, 535-543.	3.4	22

#	ARTICLE	IF	CITATIONS
37	Seismic Response of Pressurized Fire Sprinkler Piping Systems II: Numerical Study. Journal of Earthquake Engineering, 2015, 19, 674-699.	2.5	20
38	Evaluation of uniaxial contact models for moat wall pounding simulations. Earthquake Engineering and Structural Dynamics, 2020, 49, 1197-1215.	4.4	19
39	Seismic Response of Ceiling/Sprinkler Piping Nonstructural Systems in NEES TIPS/NEES Nonstructural/NIED Collaborative Tests on a Full Scale 5-Story Building. , 2012, , .		18
40	Simplified analytical solution for axial load capacity of concrete-filled double-skin tube (CFDST) columns subjected to fire. Engineering Structures, 2015, 102, 156-175.	5.3	18
41	Hybrid Simulation with Improved Operator-Splitting Integration Using Experimental Tangent Stiffness Matrix Estimation. Journal of Structural Engineering, 2008, 134, 1829-1838.	3.4	17
42	Evaluation of integration methods for hybrid simulation of complex structural systems through collapse. Earthquake Engineering and Engineering Vibration, 2017, 16, 745-759.	2.3	17
43	Damage to Engineered Buildings and Bridges in the Wake of Hurricane Katrina. , 2007, , 1.		16
44	Combined implicit or explicit integration steps for hybrid simulation. Earthquake Engineering and Structural Dynamics, 2007, 36, 2325-2343.	4.4	16
45	Assessment of Numerical and Experimental Errors in Hybrid Simulation of Framed Structural Systems through Collapse. Journal of Earthquake Engineering, 2016, 20, 885-909.	2.5	15
46	Disaster Risk Management Through the DesignSafe Cyberinfrastructure. International Journal of Disaster Risk Science, 2020, 11, 719-734.	2.9	15
47	Experimental Seismic Fragility of Steel Studded Gypsum Partition Walls and Fire Sprinkler Piping Subsystems. , 2010, , .		14
48	Experimental investigation of steel building gravity framing systems under strong earthquake shaking. Soil Dynamics and Earthquake Engineering, 2019, 116, 230-241.	3.8	11
49	Seismic interaction of tunnel-building systems on soft clay. Soil Dynamics and Earthquake Engineering, 2020, 139, 106419.	3.8	11
50	Seismic performance of a steel moment frame subassembly tested from the onset of damage through collapse. Earthquake Engineering and Structural Dynamics, 2016, 45, 1563-1580.	4.4	10
51	Numerical Studies of Three-Dimensional Isolated Structures with Vertical Quasi-Zero Stiffness Property. Journal of Earthquake Engineering, 2022, 26, 3601-3622.	2.5	10
52	Enhancing Research in Natural Hazards Engineering Through the DesignSafe Cyberinfrastructure. Frontiers in Built Environment, 2020, 6, .	2.3	9
53	Real-Time Hybrid Simulation of Seismically Isolated Structures with Full-Scale Bearings and Large Computational Models. CMES - Computer Modeling in Engineering and Sciences, 2019, 120, 693-717.	1.1	8
54	Research Needs for Seismic Rehabilitation of Sub-standard Buildings using Stiff Rocking Cores. , 2013, , .		6

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55	Observations about the seismic response of RC buildings in Mexico City. Earthquake Spectra, 2020, 36, 154-174.	3.1	6
56	Internet-based instructional resource exposing middle school students to structural and earthquake engineering. Computer Applications in Engineering Education, 2011, 19, 724-732.	3.4	5
57	Mitigation of Soft-Story Failures in Multi-Story Steel Concentrically Braced Frames through Implementation of Stiff Rocking Cores. , 2014, , .		5
58	Evaluation of Clearance to Stop Requirements in A Seismically Isolated Nuclear Power Plant. Energies, 2020, 13, 6156.	3.1	4
59	Considerations for modeling of base isolated nuclear power plants subjected to beyond design basis shaking. Nuclear Engineering and Design, 2021, 379, 111236.	1.7	4
60	Out-of-Plane Seismic Performance of URM Walls with Retrofitted Parapets and Flexible Diaphragms. , 2015, , .		3
61	Assessment of Numerical and Experimental Errors in Hybrid Simulation. , 2008, , .		2
62	Verification of Hybrid Simulation through On-Line Monitoring of Experimental Errors. , 2008, , .		2
63	Erratum for "Large-Scale Hybrid Simulation of a Steel Moment Frame Building Structure through Collapse" by Maikol Del Carpio Ramos, Gilberto Mosqueda, and M. Javad Hashemi. Journal of Structural Engineering, 2016, 142, .	3.4	2
64	Introduction to NEES TIPS: Tools for Isolation and Protective Systems. , 2008, , .		1
65	Full-Scale Experimental Facility and Loading Protocols for Seismic Performance Assessment of Nonstructural Systems. , 2010, , .		1
66	Response evaluation and analysis using impulse of base-isolated buildings during a collision with retaining wall. Japan Architectural Review, 2021, 4, 88-104.	1.1	1
67	Aseismic roof isolation system: analytic and shake table studies. Earthquake Engineering and Structural Dynamics, 1999, 28, 217-234.	4.4	1
68	Simplified Nonlinear Model of Straight-Sheathed Wood Diaphragms in Unreinforced Masonry Buildings. Journal of Structural Engineering, 2020, 146, 04020022.	3.4	1
69	RESPONSE EVALUATION AND ANALYSIS USING IMPULSE OF BASE-ISOLATED BUILDINGS DURING A COLLISION WITH RETAINING WALL. Journal of Structural and Construction Engineering, 2019, 84, 1533-1543.	0.5	1
70	Enhanced Seismic Protection System for an Emergency Diesel Generator Unit. Energies, 2022, 15, 1728.	3.1	1
71	Combined Implicit or Explicit Integration Steps for Hybrid Simulation. , 2007, , .		0
72	Implicit numerical integration in hybrid simulation with iteration strategy for experimental substructures. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Experimental and Numerical Simulation of Limit States in Base Isolated Buildings Including Pounding. , 2012, , .		0
74	Experimental Investigation of the Progressive Collapse of a Steel Special Moment-Resisting Frame and a Post-tensioned Energy-Dissipating Frame. Geotechnical, Geological and Earthquake Engineering, 2012, , 367-382.	0.2	0
75	Experimental and Numerical Investigation on the Resistance and Failure Behavior of Ductile Concrete-Filled Double-Skin Tube Columns Subjected to Post-Earthquake Fires. , 2015, , .		0