

Dimitrios Konstantinidis

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,389
citations

304743

22
h-index

345221

36
g-index

51
all docs

51
docs citations

51
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	The rocking spectrum and the limitations of practical design methodologies. Earthquake Engineering and Structural Dynamics, 2003, 32, 265-289.	4.4	204
2	Seismic response analysis of multidrum classical columns. Earthquake Engineering and Structural Dynamics, 2005, 34, 1243-1270.	4.4	131
3	Experimental and analytical studies on the response of freestanding laboratory equipment to earthquake shaking. Earthquake Engineering and Structural Dynamics, 2009, 38, 827-848.	4.4	113
4	Experimental and analytical studies on the response of 1/4-scale models of freestanding laboratory equipment subjected to strong earthquake shaking. Bulletin of Earthquake Engineering, 2010, 8, 1457-1477.	4.1	61
5	Seismic response of sliding equipment and contents in base-isolated buildings subjected to broadband ground motions. Earthquake Engineering and Structural Dynamics, 2015, 44, 865-887.	4.4	56
6	Finite element analysis of unbonded square fiber-reinforced elastomeric isolators (FREIs) under lateral loading in different directions. Composite Structures, 2014, 113, 164-173.	5.8	52
7	Structural and nonstructural performance of a seismically isolated building using stable unbonded fiber-reinforced elastomeric isolators. Earthquake Engineering and Structural Dynamics, 2016, 45, 421-439.	4.4	48
8	The Influence of Isolator Hysteresis on Equipment Performance in Seismic Isolated Buildings. Earthquake Spectra, 2010, 26, 275-293.	3.1	42
9	Experimental and finite element study on the compression properties of Modified Rectangular Fiber-Reinforced Elastomeric Isolators (MR-FREIs). Engineering Structures, 2014, 74, 52-64.	5.3	38
10	Model of the Shear Behavior of Unbonded Fiber-Reinforced Elastomeric Isolators. Journal of Structural Engineering, 2015, 141, .	3.4	36
11	Evaluation of ASCE 43-05 Seismic Design Criteria for Rocking Objects in Nuclear Facilities. Journal of Structural Engineering, 2016, 142, .	3.4	36
12	Influence of Steel Reinforcement on the Performance of Elastomeric Bearings. Journal of Structural Engineering, 2020, 146, .	3.4	36
13	Experimental and finite element study on the lateral response of modified rectangular fiber-reinforced elastomeric isolators (MR-FREIs). Engineering Structures, 2015, 85, 293-303.	5.3	35
14	Partially bonded fiber-reinforced elastomeric isolators (PB-FREIs). Structural Control and Health Monitoring, 2015, 22, 417-432.	4.0	32
15	Three-dimensional finite element analysis of circular fiber-reinforced elastomeric bearings under compression. Composite Structures, 2014, 108, 191-204.	5.8	31
16	Seismic response of rocking frames with top support eccentricity. Earthquake Engineering and Structural Dynamics, 2018, 47, 2496-2518.	4.4	28
17	Dynamics of a sliding-rocking block considering impact with an adjacent wall. Earthquake Engineering and Structural Dynamics, 2020, 49, 498-523.	4.4	28
18	Effect of Friction on Unbonded Elastomeric Bearings. Journal of Engineering Mechanics - ASCE, 2009, 135, 953-960.	2.9	27

#	ARTICLE	IF	CITATIONS
19	Finite element study of the effect of support rotation on the horizontal behavior of elastomeric bearings. <i>Composite Structures</i> , 2017, 163, 474-490.	5.8	27
20	Rocking Response of Unanchored Building Contents Considering Horizontal and Vertical Excitation. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	25
21	Shake table investigation on the seismic performance of hospital equipment supported on wheels/casters. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 243-266.	4.4	23
22	Effect of the Stick-Slip Phenomenon on the Sliding Response of Objects Subjected to Pulse Excitation. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	22
23	Compression of unbonded rubber layers taking into account bulk compressibility and contact slip at the supports. <i>International Journal of Solids and Structures</i> , 2016, 87, 206-221.	2.7	18
24	Development of Design Code Oriented Formulas for Elastomeric Bearings Including Bulk Compressibility and Reinforcement Extensibility. <i>Journal of Engineering Mechanics - ASCE</i> , 2016, 142, .	2.9	18
25	Non-iterative computational model for fiber-reinforced elastomeric isolators. <i>Engineering Structures</i> , 2017, 137, 245-255.	5.3	18
26	Experimental Study on the Seismic Response of Equipment on Wheels and Casters in Base-Isolated Hospitals. <i>Journal of Structural Engineering</i> , 2019, 145, .	3.4	17
27	System-Level Seismic Performance Assessment of an Asymmetrical Reinforced Concrete Block Shear Wall Building. <i>Journal of Structural Engineering</i> , 2015, 141, 04015047.	3.4	14
28	Peak Sliding Demands on Unanchored Equipment and Contents in Base-Isolated Buildings under Pulse Excitation. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	14
29	Evaluating adaptive vertical seismic isolation for equipment in nuclear power plants. <i>Nuclear Engineering and Design</i> , 2020, 358, 110399.	1.7	14
30	Steel shim stresses in multilayer bearings under compression and bending. <i>Journal of Mechanics of Materials and Structures</i> , 2009, 4, 1109-1125.	0.6	13
31	In-situ condition assessment of seismic fluid dampers: experimental studies and challenges. <i>Meccanica</i> , 2015, 50, 323-340.	2.0	13
32	Simple mechanical models for the horizontal behavior of elastomeric bearings including the effect of support rotation. <i>Engineering Structures</i> , 2017, 150, 996-1012.	5.3	13
33	Experimental and Analytical Studies on the Horizontal Behavior of Elastomeric Bearings under Support Rotation. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	13
34	Variation of the vertical stiffness of strip-shaped fiber-reinforced elastomeric isolators under lateral loading. <i>Composite Structures</i> , 2016, 144, 177-184.	5.8	12
35	Shear Strain Demands in Elastomeric Bearings Subjected to Rotation. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, 04017005.	2.9	11
36	Collapse Fragility Evaluation of Ductile Reinforced Concrete Block Wall Systems for Seismic Risk Assessment. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, 04016047.	2.0	10

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37	Health monitoring of fluid dampers for vibration control of structures: experimental investigation. Earthquake Engineering and Structural Dynamics, 2012, 41, 1813-1829.	4.4	9
38	Evaluation of Vision-Based Measurements for Shake-Table Testing of Nonstructural Components. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	9
39	Seismic Isolation of a Shear Wall Structure Using Rectangular Fiber-Reinforced Elastomeric Isolators. Journal of Structural Engineering, 2016, 142, .	3.4	8
40	Integrated Structuralâ€“Nonstructural Performance-Based Seismic Design and Retrofit Optimization of Buildings. Journal of Structural Engineering, 2020, 146, .	3.4	7
41	Simplified Approximations for Critical Design Parameters of Rectangular Fiber-Reinforced Elastomeric Isolators. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	6
42	Demands on nonstructural components in buildings with controlled rocking braced frames. Earthquake Engineering and Structural Dynamics, 2021, 50, 1063-1082.	4.4	6
43	A framework for the rapid assessment of seismic upgrade viability using performance-based earthquake engineering. Earthquake Spectra, 2022, 38, 1761-1787.	3.1	4
44	Vision-Based Quality Control Testing of Elastomeric Bridge Bearings. , 2020, , .		3
45	Nondestructive Assessment of Elastomeric Bridge Bearings Using 3D Digital Image Correlation. Journal of Structural Engineering, 2022, 148, .	3.4	3
46	Investigation of partially bonded fiber-reinforced elastomeric isolators (PB-FREIs) with nominal vertical tensile loads. Canadian Journal of Civil Engineering, 2019, 46, 669-676.	1.3	2
47	Quantifying damage in the steel shims of seismic isolation rubber bearings due to support rotation. , 2021, , .		1
48	Effect of multi-component excitation on the sliding response of unanchored components in nuclear facilities. Nuclear Engineering and Design, 2022, 390, 111707.	1.7	1
49	Effect of Manufacturing Imperfections on the Service-Level Performance of Elastomeric Bridge Bearings. Journal of Structural Engineering, 2022, 148, .	3.4	1
50	Health monitoring of fluid dampers for vibration control of structures: experimental investigation. Proceedings of SPIE, 2014, , .	0.8	0