

Elias G Dimitrakopoulos

List of Publications by Year in descending order

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45
papers

1,534
citations

304368

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docs citations

46
times ranked

753
citing authors

#	ARTICLE	IF	CITATIONS
1	Subspace identification of bridge dynamics via traversing vehicle measurements. <i>Journal of Sound and Vibration</i> , 2022, 523, 116690.	2.1	14
2	Simulation and experimental verification of an original full-scale bamboo truss. <i>Engineering Structures</i> , 2022, 256, 113965.	2.6	4
3	Insight into the behaviour of bamboo culms subjected to bending. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210913.	1.5	2
4	Chattering: an overlooked peculiarity of rocking motion. <i>Nonlinear Dynamics</i> , 2022, 109, 459-477.	2.7	6
5	Application of short-time stochastic subspace identification to estimate bridge frequencies from a traversing vehicle. <i>Engineering Structures</i> , 2021, 230, 111688.	2.6	21
6	Simulation of embedment phenomena on bamboo culms via a modified foundation modelling approach. <i>Construction and Building Materials</i> , 2021, 275, 122048.	3.2	8
7	Pilot Study on Capacity-Based Design of Multiculm Bamboo Axial Members with Dowel-Type Connections. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	5
8	A Dynamic Partitioning Method to solve the vehicle-bridge interaction problem. <i>Computers and Structures</i> , 2021, 251, 106547.	2.4	15
9	Non-linear behaviour and failure mechanism of bamboo poles in bending. <i>Construction and Building Materials</i> , 2021, 305, 124747.	3.2	9
10	Quasi-static reversed cyclic testing of multi-culm bamboo members with steel connectors. <i>Journal of Building Engineering</i> , 2020, 27, 100983.	1.6	13
11	MDOF extension of the Modified Bridge System method for vehicle-bridge interaction. <i>Nonlinear Dynamics</i> , 2020, 102, 2103-2123.	2.7	9
12	Additional damping effect on bridges because of vehicle-bridge interaction. <i>Journal of Sound and Vibration</i> , 2020, 476, 115294.	2.1	30
13	A Modified Bridge System method to characterize and decouple vehicle-bridge interaction. <i>Acta Mechanica</i> , 2020, 231, 3825-3845.	1.1	16
14	Experimental characterization of multi-full-culm bamboo to steel connections. <i>Lecture Notes in Civil Engineering</i> , 2020, , 245-250.	0.3	0
15	Monotonic loading testing and characterization of new multi-full-culm bamboo to steel connections. <i>Construction and Building Materials</i> , 2019, 201, 473-483.	3.2	20
16	A localized lagrange multipliers approach for the problem of vehicle-bridge-interaction. <i>Engineering Structures</i> , 2018, 168, 82-92.	2.6	26
17	Rocking amplification and strong-motion duration. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 2094-2116.	2.5	49
18	Vehicle-bridge interaction analysis modeling derailment during earthquakes. <i>Nonlinear Dynamics</i> , 2018, 93, 2315-2337.	2.7	59

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19	Circuit nonlinearity effect on the performance of an electromagnetic energy harvester-structure system. <i>Engineering Structures</i> , 2018, 173, 449-459.	2.6	10
20	Dynamic vehicle-bridge interaction under simultaneous vertical earthquake excitation. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 71-95.	2.3	28
21	Nonsmooth dynamics prediction of measured bridge response involving deck-abutment pounding. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 1431-1452.	2.5	17
22	Nonsmooth dynamic analysis of sticking impacts in rocking structures. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 2273-2304.	2.3	41
23	Seismic Performance of Rocking Frames with Flag-Shaped Hysteretic Behavior. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	1.6	41
24	Design and experimental verification of easily constructible bamboo footbridges for rural areas. <i>Engineering Structures</i> , 2017, 143, 540-548.	2.6	47
25	Comparative evaluation of two simulation approaches of deck-abutment pounding in bridges. <i>Engineering Structures</i> , 2017, 148, 541-551.	2.6	12
26	Derailment mechanism of trains running over bridges during strong earthquakes. <i>Procedia Engineering</i> , 2017, 199, 2633-2638.	1.2	12
27	Closed-form rocking overturning conditions for a family of pulse ground motions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160662.	1.0	22
28	Seismic response analysis of an interacting curved bridge-train system under frequent earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1129-1148.	2.5	59
29	Dynamic response of high speed vehicles and sustaining curved bridges under conditions of resonance. <i>Engineering Structures</i> , 2016, 114, 61-74.	2.6	40
30	Dimensionless fragility curves for rocking response to near-fault excitations. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2015-2033.	2.5	107
31	Seismic Response Analysis of the Planar Rocking Frame. <i>Journal of Engineering Mechanics - ASCE</i> , 2015, 141, .	1.6	67
32	A three-dimensional dynamic analysis scheme for the interaction between trains and curved railway bridges. <i>Computers and Structures</i> , 2015, 149, 43-60.	2.4	64
33	Scavenging vibration energy from seismically isolated bridges using an electromagnetic harvester. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
34	Dynamically equivalent rocking structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 1543-1563.	2.5	108
35	Nonsmooth analysis of the impact between successive skew bridge-segments. <i>Nonlinear Dynamics</i> , 2013, 74, 911-928.	2.7	27
36	Seismic Overturning of Rocking Structures with External Viscous Dampers. <i>Computational Methods in Applied Sciences (Springer)</i> , 2013, , 243-258.	0.1	5

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37	Revisiting the rocking block: closed-form solutions and similarity laws. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2294-2318.	1.0	133
38	Overturning of Retrofitted Rocking Structures under Pulse-Type Excitations. Journal of Engineering Mechanics - ASCE, 2012, 138, 963-972.	1.6	78
39	Dimensional analysis of the earthquake-induced pounding between inelastic structures. Bulletin of Earthquake Engineering, 2011, 9, 561-579.	2.3	15
40	Seismic response analysis of skew bridges with pounding deckâ€“abutment joints. Engineering Structures, 2011, 33, 813-826.	2.6	61
41	Analysis of a frictional oblique impact observed inÂskewÂbridges. Nonlinear Dynamics, 2010, 60, 575-595.	2.7	38
42	Dimensional Analysis of the Earthquake Response of a Pounding Oscillator. Journal of Engineering Mechanics - ASCE, 2010, 136, 299-310.	1.6	21
43	Dimensional analysis of the earthquakeâ€“induced pounding between adjacent structures. Earthquake Engineering and Structural Dynamics, 2009, 38, 867-886.	2.5	45
44	Dimensional analysis of yielding and pounding structures for records without distinct pulses. Soil Dynamics and Earthquake Engineering, 2009, 29, 1170-1180.	1.9	53
45	Feasibility of pre-earthquake strengthening of buildings based on cost-benefit and life-cycle cost analysis, with the aid of fragility curves. Natural Hazards, 2008, 45, 33-54.	1.6	76