

Marco Domaneschi

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

1,365
citations

304743

22
h-index

395702

33
g-index

103
all docs

103
docs citations

103
times ranked

962
citing authors

#	ARTICLE	IF	CITATIONS
1	A European Association for the Control of Structures joint perspective. Recent studies in civil structural control across Europe. Structural Control and Health Monitoring, 2014, 21, 1414-1436.	4.0	82
2	Post-collapse analysis of Morandi's Polcevera viaduct in Genoa Italy. Journal of Civil Structural Health Monitoring, 2020, 10, 69-85.	3.9	77
3	The numerical computation of seismic fragility of base-isolated Nuclear Power Plants buildings. Nuclear Engineering and Design, 2013, 262, 189-200.	1.7	75
4	Seismic reliability of a cable-stayed bridge retrofitted with hysteretic devices. Computers and Structures, 2008, 86, 1769-1781.	4.4	72
5	Control of wind buffeting vibrations in a suspension bridge by TMD: Hybridization and robustness issues. Computers and Structures, 2015, 155, 3-17.	4.4	66
6	Three-Dimensional Base Isolation Using Vertical Negative Stiffness Devices. Journal of Earthquake Engineering, 2020, 24, 2004-2032.	2.5	47
7	Integrated platform to assess seismic resilience at the community level. Sustainable Cities and Society, 2021, 64, 102506.	10.4	46
8	Collapse analysis of the Polcevera viaduct by the applied element method. Engineering Structures, 2020, 214, 110659.	5.3	44
9	A numerical procedure for computing the fragility of NPP components under random seismic excitation. Nuclear Engineering and Design, 2009, 239, 2491-2499.	1.7	37
10	Simulation of controlled hysteresis by the semi-active Bouc-Wen model. Computers and Structures, 2012, 106-107, 245-257.	4.4	33
11	Integrating a Human Behavior Model within an Agent-Based Approach for Blasting Evacuation. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 3-20.	9.8	33
12	Semi-active Electro-inductive Devices: Characterization and Modelling. JVC/Journal of Vibration and Control, 2007, 13, 815-838.	2.6	32
13	Earthquake-Resilience-Based Control Solutions for the Extended Benchmark Cable-Stayed Bridge. Journal of Structural Engineering, 2016, 142, .	3.4	32
14	An industry-oriented strategy for the finite element simulation of paperboard creasing and folding. Packaging Technology and Science, 2017, 30, 269-294.	2.8	30
15	Damage detection and localization on a benchmark cable-stayed bridge. Earthquake and Structures, 2015, 8, 1113-1126.	1.0	29
16	Stability analysis of different types of steel scaffolds. Engineering Structures, 2017, 152, 535-548.	5.3	28
17	Experimental and numerical study of standard impact tests on polypropylene pipes with brittle behaviour. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2012, 226, 2035-2046.	2.4	26
18	Submerged Floating Tunnels under Seismic Motion: Vibration Mitigation and Seaquake effects. Procedia Engineering, 2016, 166, 229-246.	1.2	26

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19	A simplified method to assess generation of seismic debris for masonry structures. <i>Engineering Structures</i> , 2019, 186, 306-320.	5.3	25
20	Characterization, modeling and assessment of Roll-N-Cage isolator using the cable-stayed bridge benchmark. <i>Acta Mechanica</i> , 2013, 224, 525-547.	2.1	24
21	Vibration based damage localization using MEMS on a suspension bridge model. <i>Smart Structures and Systems</i> , 2013, 12, 679-694.	1.9	24
22	Extending the Benchmark Cable-Stayed Bridge for Transverse Response under Seismic Loading. <i>Journal of Bridge Engineering</i> , 2014, 19, .	2.9	23
23	Modeling the interdependency between buildings and the electrical distribution system for seismic resilience assessment. <i>International Journal of Disaster Risk Reduction</i> , 2020, 42, 101315.	3.9	23
24	Performance comparison of passive control schemes for the numerically improved ASCE cable-stayed bridge model. <i>Earthquake and Structures</i> , 2012, 3, 181-201.	1.0	23
25	Refined optimal passive control of buffeting-induced wind loading of a suspension bridge. <i>Wind and Structures, an International Journal</i> , 2014, 18, 1-20.	0.8	23
26	Nondestructive Monitoring Techniques for Crack Detection and Localization in RC Elements. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3248.	2.5	21
27	Optimal passive and semi-active control of a wind excited suspension bridge. <i>Structure and Infrastructure Engineering</i> , 2013, 9, 242-259.	3.7	20
28	Deteriorated seismic capacity assessment of <scp>reinforced concrete</scp> bridge piers in corrosive environment. <i>Structural Concrete</i> , 2020, 21, 1823-1838.	3.1	20
29	Seismic vulnerability assessment of existing school buildings. <i>Computers and Structures</i> , 2021, 248, 106522.	4.4	20
30	IdealCity: A hybrid approach to seismic evacuation modeling. <i>Advances in Engineering Software</i> , 2021, 153, 102956.	3.8	19
31	Fire Emergency Evacuation from a School Building Using an Evolutionary Virtual Reality Platform. <i>Buildings</i> , 2022, 12, 223.	3.1	18
32	Wind and earthquake protection of cable-supported bridges. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2016, 169, 157-171.	0.6	17
33	A computational framework for large-scale seismic simulations of residential building stock. <i>Engineering Structures</i> , 2021, 244, 112690.	5.3	17
34	Multi-Hazard Resilience Assessment of a Coastal Community Due to Offshore Earthquakes. <i>Journal of Earthquake and Tsunami</i> , 2019, 13, .	1.3	15
35	Feasible control solutions of the ASCE benchmark cable-stayed bridge. <i>Structural Control and Health Monitoring</i> , 2009, 17, n/a-n/a.	4.0	14
36	Bridge and transport network resilience â€“ a perspective. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2022, 175, 138-149.	0.6	13

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37	Reduced-order coupled bidirectional modeling of the Roll-N-Cage isolator with application to the updated bridge benchmark. <i>Acta Mechanica</i> , 2015, 226, 3533-3553.	2.1	12
38	Seismic vulnerability assessment indices for buildings: Proposals, comparisons and methodologies at collapse limit states. <i>International Journal of Disaster Risk Reduction</i> , 2021, 63, 102466.	3.9	12
39	Existing concrete dams: loads definition and finite element models validation. <i>Structural Monitoring and Maintenance</i> , 2016, 3, 129-144.	1.7	12
40	Damage detection on output-only monitoring of dynamic curvature in composite decks. <i>Structural Monitoring and Maintenance</i> , 2017, 4, 1-15.	1.7	11
41	Damage assessment from SOFO dynamic measurements. , 2005, , .		10
42	Overturning risk of furniture in earthquake-affected areas. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 362-374.	2.6	10
43	Random imperfection fields to model the size effect in laboratory wood specimens. <i>Structural Safety</i> , 2007, 29, 308-321.	5.3	9
44	Bond deterioration effects on corroded <scp>RC</scp> bridge pier in seismic zone. <i>Structural Concrete</i> , 2022, 23, 51-66.	3.1	9
45	Disproportionate collapse of a cable-stayed bridge. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2019, 172, 13-26.	0.6	7
46	Structural health monitoring of in-service tunnels. <i>International Journal of Sustainable Materials and Structural Systems</i> , 2020, 4, 268.	0.1	7
47	Wind-driven damage localization on a suspension bridge. <i>Baltic Journal of Road and Bridge Engineering</i> , 2016, 11, 11-21.	0.8	7
48	Nonlinear Behaviors of Submerged Floating Tunnels under Seismic Excitation. <i>Applied Mechanics and Materials</i> , 0, 226-228, 1124-1127.	0.2	6
49	Interpolation Damage Detection Method on a Suspension Bridge Model: Influence of Sensors Disturbances. <i>Key Engineering Materials</i> , 0, 569-570, 734-741.	0.4	6
50	Effect of structural control on wind fatigue mitigation in suspension bridges. <i>International Journal of Structural Engineering</i> , 2017, 8, 289.	0.4	6
51	Improving post-earthquake emergency response using indoor tracking. <i>Earthquake Spectra</i> , 2020, 36, 1208-1230.	3.1	6
52	Local damage detection from dynamic SOFO experimental data. , 2005, 5765, 591.		5
53	Seismic Isolation of the IRIS Nuclear Plant. , 2009, , .		5
54	A comprehensive approach to small and large-scale effects of earthquake motion variability. <i>Computers and Structures</i> , 2018, 207, 155-170.	4.4	5

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55	Development of Dynamic Laboratory Platform for Earthquake Engineering Courses. Journal of Professional Issues in Engineering Education and Practice, 2018, 144, .	0.9	4
56	Damage detection in a suspension bridge model using the interpolation damage detection method. Bridge Maintenance, Safety and Management, 2012, , 2975-2980.	0.1	4
57	INTEGRATING BIM WITH ON SITE INVESTIGATION FOR SEISMIC VULNERABILITY ASSESSMENT. , 2019, , .		4
58	FIRE EMERGENCY EVACUATION IN A SCHOOL BUILDING THROUGH VR. , 2019, , .		4
59	Developing a laboratory facility to assess friction coefficients of standing samples. Procedia Structural Integrity, 2020, 29, 142-148.	0.8	4
60	Design and Implementation of a Pointer System Controller. Nonlinear Dynamics, 2004, 36, 203-215.	5.2	3
61	Improving Distributed Fiber Optic Sensor Measures by Digital Image Correlation: Two-Stage Structural Health Monitoring. ACI Structural Journal, 2021, 118, .	0.2	3
62	Aeolic and Seismic Structural Vibrations Mitigation on Long-Span Cable-Supported Bridges. Advanced Materials Research, 0, 690-693, 1168-1171.	0.3	2
63	VULNERABILITY OF ART WORKS TO BLAST HAZARD: THE FOUNTAIN OF NEPTUNE IN FLORENCE. , 2021, , .		2
64	Assessing the Performance of a High Damping Rubber Bearing in Beyond-design Conditions. , 0, , .		2
65	Seismic Mitigation of the ASCE Cable-Stayed Bridge. , 2010, , .		1
66	When The Going Gets Tough The Tough Gets Going: Skyhook Structural Control of Suspended Bridge under Strong Wind Excitation. , 2010, , .		1
67	Phenomenological Model of Rubber Bearings With Variable Axial Loading. Frontiers in Built Environment, 2018, 4, .	2.3	1
68	Present and future resilience research driven by science and technology. International Journal of Sustainable Materials and Structural Systems, 2021, 5, 50.	0.1	1
69	Finite Element Models of a Benchmark Footbridge. Applied Sciences (Switzerland), 2021, 11, 9024.	2.5	1
70	Dynamic Characterization and Vulnerability Assessment of a School Building in Italy. , 0, , .		1
71	BIM-BASED APPROACH FOR SEISMIC RISK ANALYSIS. Proceedings of International Structural Engineering and Construction, 2018, 5, .	0.1	1
72	A Strategy for Modelling External User Element in ANSYS: the Bouc-Wen and the Skyhook Case. , 2010, , .		1

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73	Control of Wind Induced Buffeting Vibrations in a Long Span Suspension Bridge by TMDs. , 0, , .		1
74	The Effects of Foundation Rotational Excitation on a Cable Stayed Bridge subject to Seismic Loading. , 0, , .		1
75	Effects of Foundation Rotational Motion on the Non-Linear Response of a Base-Isolated Nuclear Power Plant subject to Earthquake Loading. , 0, , .		1
76	Damage risk assessment of historical asset using laser scan and finite element approach. Procedia Structural Integrity, 2020, 29, 183-191.	0.8	1
77	Structural health monitoring of in-service tunnels. International Journal of Sustainable Materials and Structural Systems, 2020, 4, 268.	0.1	1
78	Present and future resilience research driven by science and technology. International Journal of Sustainable Materials and Structural Systems, 2021, 5, 50.	0.1	0
79	Seismic protection of the ASCE updated cable-stayed bridge benchmark with RNC passive devices. Bridge Maintenance, Safety and Management, 2012, , 2302-2309.	0.1	0
80	Robustness of passive and semi-active control schemes on a cable stayed bridge under extreme loading conditions. , 2014, , 1683-1690.		0
81	Robustness issues and hybridization of a Tuned Mass Damper system on a suspension bridge model under variable wind buffeting. , 2014, , 1675-1682.		0
82	Challenges in Damage Detection Based on Finite Element Analyses and Monitoring of Dynamic Curvature of Concrete-steel Composite Structures. , 0, , .		0
83	Validation of Finite Element Models of Existing Concrete Dams, Through Monitoring Data. , 0, , .		0
84	Assessing damage intensity basing on a non-model damage feature on a long span suspension bridge model. , 2016, , 1908-1913.		0
85	The "bang-bang" control law for mitigation of a suspension bridge vibrations due to wind actions. , 2016, , 76-81.		0
86	EXPLORING SIMULATION TOOLS FOR URBAN SEISMIC ANALYSIS AND RESILIENCE ASSESSMENT. , 2017, , .		0
87	Effect of structural control on wind fatigue mitigation in suspension bridges. International Journal of Structural Engineering, 2017, 8, 289.	0.4	0
88	3D BASE ISOLATION OF BUILDINGS. , 2019, , .		0
89	SOME ASPECTS ON 3D BASE ISOLATION OF HEAVY AND LIGHTWEIGHT STRUCTURES WITH TMD. , 2019, , .		0
90	A NEW VERTICAL BASE ISOLATION SYSTEM. , 2019, , .		0

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91	Crack Detection Using Embedded Fiber-Optic Sensors in Reinforced Concrete Beams. , 0, , .		0
92	Remarks on the Collapse of the Polcevera Viaduct. , 0, , .		0
93	VULNERABILITY ASSESSMENT OF A CIVIC TOWER USING AMBIENT VIBRATION TESTS. Proceedings of International Structural Engineering and Construction, 2020, 7, .	0.1	0
94	Protection of art works to blast hazards: the Fountain of Neptune in Florence. International Journal of Masonry Research and Innovation, 2022, 1, 1.	0.4	0
95	Numerical Investigations of a Base Isolation System for Nuclear Power Plants: Safety Domain Definition and Analytical Model Identification. , 0, , .		0
96	Fatigue Mitigation in a Long Span Suspension Bridge with a Steel Frame Deck. , 0, , .		0