

# 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	Bond deterioration effects on corroded <sc>RC</sc> bridge pier in seismic zone. Structural Concrete, 2022, 23, 51-66.	3.1	9
2	Bridge and transport network resilience â€“ a perspective. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2022, 175, 138-149.	0.6	13
3	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
4	Fire Emergency Evacuation from a School Building Using an Evolutionary Virtual Reality Platform. Buildings, 2022, 12, 223.	3.1	18
5	Integrated platform to assess seismic resilience at the community level. Sustainable Cities and Society, 2021, 64, 102506.	10.4	46
6	Present and future resilience research driven by science and technology. International Journal of Sustainable Materials and Structural Systems, 2021, 5, 50.	0.1	1
7	VULNERABILITY OF ART WORKS TO BLAST HAZARD: THE FOUNTAIN OF NEPTUNE IN FLORENCE. , 2021, , .		2
8	Present and future resilience research driven by science and technology. International Journal of Sustainable Materials and Structural Systems, 2021, 5, 50.	0.1	0
9	Improving Distributed Fiber Optic Sensor Measures by Digital Image Correlation: Two-Stage Structural Health Monitoring. ACI Structural Journal, 2021, 118, .	0.2	3
10	IdealCity: A hybrid approach to seismic evacuation modeling. Advances in Engineering Software, 2021, 153, 102956.	3.8	19
11	Seismic vulnerability assessment of existing school buildings. Computers and Structures, 2021, 248, 106522.	4.4	20
12	Finite Element Models of a Benchmark Footbridge. Applied Sciences (Switzerland), 2021, 11, 9024.	2.5	1
13	Seismic vulnerability assessment indices for buildings: Proposals, comparisons and methodologies at collapse limit states. International Journal of Disaster Risk Reduction, 2021, 63, 102466.	3.9	12
14	A computational framework for large-scale seismic simulations of residential building stock. Engineering Structures, 2021, 244, 112690.	5.3	17
15	Three-Dimensional Base Isolation Using Vertical Negative Stiffness Devices. Journal of Earthquake Engineering, 2020, 24, 2004-2032.	2.5	47
16	Modeling the interdependency between buildings and the electrical distribution system for seismic resilience assessment. International Journal of Disaster Risk Reduction, 2020, 42, 101315.	3.9	23
17	Overtuning risk of furniture in earthquake-affected areas. JVC/Journal of Vibration and Control, 2020, 26, 362-374.	2.6	10
18	Post-collapse analysis of Morandiâ€™s Polcevera viaduct in Genoa Italy. Journal of Civil Structural Health Monitoring, 2020, 10, 69-85.	3.9	77

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19	Structural health monitoring of in-service tunnels. International Journal of Sustainable Materials and Structural Systems, 2020, 4, 268.	0.1	7
20	Improving post-earthquake emergency response using indoor tracking. Earthquake Spectra, 2020, 36, 1208-1230.	3.1	6
21	Nondestructive Monitoring Techniques for Crack Detection and Localization in RC Elements. Applied Sciences (Switzerland), 2020, 10, 3248.	2.5	21
22	Deteriorated seismic capacity assessment of <scp>reinforced concrete</scp> bridge piers in corrosive environment. Structural Concrete, 2020, 21, 1823-1838.	3.1	20
23	Collapse analysis of the Polcevera viaduct by the applied element method. Engineering Structures, 2020, 214, 110659.	5.3	44
24	Damage risk assessment of historical asset using laser scan and finite element approach. Procedia Structural Integrity, 2020, 29, 183-191.	0.8	1
25	Structural health monitoring of in-service tunnels. International Journal of Sustainable Materials and Structural Systems, 2020, 4, 268.	0.1	1
26	Developing a laboratory facility to assess friction coefficients of standing samples. Procedia Structural Integrity, 2020, 29, 142-148.	0.8	4
27	VULNERABILITY ASSESSMENT OF A CIVIC TOWER USING AMBIENT VIBRATION TESTS. Proceedings of International Structural Engineering and Construction, 2020, 7, .	0.1	0
28	Multi-Hazard Resilience Assessment of a Coastal Community Due to Offshore Earthquakes. Journal of Earthquake and Tsunami, 2019, 13, .	1.3	15
29	A simplified method to assess generation of seismic debris for masonry structures. Engineering Structures, 2019, 186, 306-320.	5.3	25
30	Disproportionate collapse of a cable-stayed bridge. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2019, 172, 13-26.	0.6	7
31	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
32	INTEGRATING BIM WITH ON SITE INVESTIGATION FOR SEISMIC VULNERABILITY ASSESSMENT. , 2019, , .		4
33	FIRE EMERGENCY EVACUATION IN A SCHOOL BUILDING THROUGH VR. , 2019, , .		4
34	3D BASE ISOLATION OF BUILDINGS. , 2019, , .		0
35	SOME ASPECTS ON 3D BASE ISOLATION OF HEAVY AND LIGHTWEIGHT STRUCTURES WITH TMD. , 2019, , .		0
36	A NEW VERTICAL BASE ISOLATION SYSTEM. , 2019, , .		0

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37	A comprehensive approach to small and large-scale effects of earthquake motion variability. Computers and Structures, 2018, 207, 155-170.	4.4	5
38	Phenomenological Model of Rubber Bearings With Variable Axial Loading. Frontiers in Built Environment, 2018, 4, .	2.3	1
39	Development of Dynamic Laboratory Platform for Earthquake Engineering Courses. Journal of Professional Issues in Engineering Education and Practice, 2018, 144, .	0.9	4
40	BIM-BASED APPROACH FOR SEISMIC RISK ANALYSIS. Proceedings of International Structural Engineering and Construction, 2018, 5, .	0.1	1
41	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
42	Stability analysis of different types of steel scaffolds. Engineering Structures, 2017, 152, 535-548.	5.3	28
43	Effect of structural control on wind fatigue mitigation in suspension bridges. International Journal of Structural Engineering, 2017, 8, 289.	0.4	6
44	Damage detection on output-only monitoring of dynamic curvature in composite decks. Structural Monitoring and Maintenance, 2017, 4, 1-15.	1.7	11
45	EXPLORING SIMULATION TOOLS FOR URBAN SEISMIC ANALYSIS AND RESILIENCE ASSESSMENT. , 2017, , .		0
46	Effect of structural control on wind fatigue mitigation in suspension bridges. International Journal of Structural Engineering, 2017, 8, 289.	0.4	0
47	Submerged Floating Tunnels under Seismic Motion: Vibration Mitigation and Seaquake effects. Procedia Engineering, 2016, 166, 229-246.	1.2	26
48	Wind and earthquake protection of cable-supported bridges. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2016, 169, 157-171.	0.6	17
49	Earthquake-Resilience-Based Control Solutions for the Extended Benchmark Cable-Stayed Bridge. Journal of Structural Engineering, 2016, 142, .	3.4	32
50	Existing concrete dams: loads definition and finite element models validation. Structural Monitoring and Maintenance, 2016, 3, 129-144.	1.7	12
51	Wind-driven damage localization on a suspension bridge. Baltic Journal of Road and Bridge Engineering, 2016, 11, 11-21.	0.8	7
52	Assessing damage intensity basing on a non-model damage feature on a long span suspension bridge model. , 2016, , 1908-1913.		0
53	The "bang-bang" control law for mitigation of a suspension bridge vibrations due to wind actions. , 2016, , 76-81.		0
54	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

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55	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
56	Damage detection and localization on a benchmark cable-stayed bridge. <i>Earthquake and Structures</i> , 2015, 8, 1113-1126.	1.0	29
57	A European Association for the Control of Structures joint perspective. Recent studies in civil structural control across Europe. <i>Structural Control and Health Monitoring</i> , 2014, 21, 1414-1436.	4.0	82
58	Extending the Benchmark Cable-Stayed Bridge for Transverse Response under Seismic Loading. <i>Journal of Bridge Engineering</i> , 2014, 19, .	2.9	23
59	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
60	Robustness of passive and semi-active control schemes on a cable stayed bridge under extreme loading conditions. , 2014, , 1683-1690.		0
61	Robustness issues and hybridization of a Tuned Mass Damper system on a suspension bridge model under variable wind buffeting. , 2014, , 1675-1682.		0
62	The numerical computation of seismic fragility of base-isolated Nuclear Power Plants buildings. <i>Nuclear Engineering and Design</i> , 2013, 262, 189-200.	1.7	75
63	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
64	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
65	Vibration based damage localization using MEMS on a suspension bridge model. <i>Smart Structures and Systems</i> , 2013, 12, 679-694.	1.9	24
66	Experimental and numerical study of standard impact tests on polypropylene pipes with brittle behaviour. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2012, 226, 2035-2046.	2.4	26
67	Simulation of controlled hysteresis by the semi-active Bouc-Wen model. <i>Computers and Structures</i> , 2012, 106-107, 245-257.	4.4	33
68	Damage detection in a suspension bridge model using the interpolation damage detection method. <i>Bridge Maintenance, Safety and Management</i> , 2012, , 2975-2980.	0.1	4
69	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
70	Seismic protection of the ASCE updated cable-stayed bridge benchmark with RNC passive devices. <i>Bridge Maintenance, Safety and Management</i> , 2012, , 2302-2309.	0.1	0
71	Seismic Mitigation of the ASCE Cable-Stayed Bridge. , 2010, , .		1
72	When The Going Gets Tough The Tough Gets Going: Skyhook Structural Control of Suspended Bridge under Strong Wind Excitation. , 2010, , .		1

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73	A Strategy for Modelling External User Element in ANSYS: the Bouc-Wen and the Skyhook Case. , 2010, , .		1
74	Seismic Isolation of the IRIS Nuclear Plant. , 2009, , .		5
75	Feasible control solutions of the ASCE benchmark cable-stayed bridge. Structural Control and Health Monitoring, 2009, 17, n/a-n/a.	4.0	14
76	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
77	Seismic reliability of a cable-stayed bridge retrofitted with hysteretic devices. Computers and Structures, 2008, 86, 1769-1781.	4.4	72
78	Semi-active Electro-inductive Devices: Characterization and Modelling. JVC/Journal of Vibration and Control, 2007, 13, 815-838.	2.6	32
79	Random imperfection fields to model the size effect in laboratory wood specimens. Structural Safety, 2007, 29, 308-321.	5.3	9
80	Local damage detection from dynamic SOFO experimental data. , 2005, 5765, 591.		5
81	Damage assessment from SOFO dynamic measurements. , 2005, , .		10
82	Design and Implementation of a Pointer System Controller. Nonlinear Dynamics, 2004, 36, 203-215.	5.2	3
83	Nonlinear Behaviors of Submerged Floating Tunnels under Seismic Excitation. Applied Mechanics and Materials, 0, 226-228, 1124-1127.	0.2	6
84	Interpolation Damage Detection Method on a Suspension Bridge Model: Influence of Sensors Disturbances. Key Engineering Materials, 0, 569-570, 734-741.	0.4	6
85	Aeolic and Seismic Structural Vibrations Mitigation on Long-Span Cable-Supported Bridges. Advanced Materials Research, 0, 690-693, 1168-1171.	0.3	2
86	Assessing the Performance of a High Damping Rubber Bearing in Beyond-design Conditions. , 0, , .		2
87	Dynamic Characterization and Vulnerability Assessment of a School Building in Italy. , 0, , .		1
88	Control of Wind Induced Buffeting Vibrations in a Long Span Suspension Bridge by TMDs. , 0, , .		1
89	The Effects of Foundation Rotational Excitation on a Cable Stayed Bridge subject to Seismic Loading. , 0, , .		1
90	Effects of Foundation Rotational Motion on the Non-Linear Response of a Base-Isolated Nuclear Power Plant subject to Earthquake Loading. , 0, , .		1

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91	Challenges in Damage Detection Based on Finite Element Analyses and Monitoring of Dynamic Curvature of Concrete-steel Composite Structures. , 0, , .		0
92	Validation of Finite Element Models of Existing Concrete Dams, Through Monitoring Data. , 0, , .		0
93	Crack Detection Using Embedded Fiber-Optic Sensors in Reinforced Concrete Beams. , 0, , .		0
94	Remarks on the Collapse of the Polcevera Viaduct. , 0, , .		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