

Valerio De Biagi

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

653
citations

687363

13
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56
all docs

56
docs citations

56
times ranked

392
citing authors

#	ARTICLE	IF	CITATIONS
1	Progressive collapse of framed building structures: Current knowledge and future prospects. <i>Engineering Structures</i> , 2020, 206, 110061.	5.3	147
2	Strengthening and retrofitting techniques to mitigate progressive collapse: A critical review and future research agenda. <i>Engineering Structures</i> , 2022, 262, 114274.	5.3	49
3	Estimation of the return period of rockfall blocks according to their size. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 103-113.	3.6	47
4	Complexity and robustness of frame structures. <i>International Journal of Solids and Structures</i> , 2013, 50, 3723-3741.	2.7	32
5	Progressive collapse of structures: A discussion on annotated nomenclature. <i>Structures</i> , 2021, 29, 1417-1423.	3.6	29
6	Progressive Collapse Assessment of Steel Moment-Resisting Frames Using Static- and Dynamic-Incremental Analyses. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, .	2.0	26
7	Collapse resistance assessment through the implementation of progressive damage in finite element codes. <i>Engineering Structures</i> , 2017, 136, 523-534.	5.3	24
8	Structural behavior of a metallic truss under progressive damage. <i>International Journal of Solids and Structures</i> , 2016, 82, 56-64.	2.7	20
9	Impact of snow avalanche on buildings: Forces estimation from structural back-analyses. <i>Engineering Structures</i> , 2015, 92, 15-28.	5.3	17
10	A novel structural resilience index: Definition and applications to frame structures. <i>Mechanics Research Communications</i> , 2019, 99, 52-57.	1.8	17
11	Reliability analysis and partial safety factors approach for rockfall protection structures. <i>Engineering Structures</i> , 2020, 213, 110553.	5.3	15
12	A new experimental snow avalanche test site at Seehore peak in Aosta Valley (NW Italian Alps) – part I: Conception and logistics. <i>Cold Regions Science and Technology</i> , 2013, 85, 175-182.	3.5	14
13	Dynamic effects induced by the impact of debris flows on protection barriers. <i>International Journal of Protective Structures</i> , 2019, 10, 116-131.	2.3	14
14	A Simplified Method for Assessing the Response of RC Frame Structures to Sudden Column Removal. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3081.	2.5	13
15	A quick-assessment procedure to evaluate the degree of conservation of rockfall drapery meshes. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 437-450.	0.9	13
16	A quantitative approach for the evaluation of rockfall risk on buildings. <i>Natural Hazards</i> , 2017, 88, 1059-1086.	3.4	12
17	Blast-induced progressive collapse of steel moment-resisting frames: Numerical studies and a framework for updating the alternate load path method. <i>Engineering Structures</i> , 2021, 242, 112541.	5.3	12
18	Monitoring and compartmentalized structures. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015, 95, 638-648.	1.6	11

#	ARTICLE	IF	CITATIONS
19	Damage tolerance in parallel systems. <i>International Journal of Damage Mechanics</i> , 2016, 25, 1040-1059.	4.2	10
20	Brief communication: Accuracy of the fallen blocks volume-frequency law. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1487-1492.	3.6	10
21	Optimization methods for the evaluation of the parameters of a rockfall fractal fragmentation model. <i>Landslides</i> , 2019, 16, 1385-1396.	5.4	10
22	A new experimental snow avalanche test site at Seehore peak in Aosta Valley (NW Italian Alps) ? Part II: Engineering aspects. <i>Cold Regions Science and Technology</i> , 2013, 86, 14-21.	3.5	9
23	Reliability-Based Design of Protection Net Fences: Influence of Rockfall Uncertainties through a Statistical Analysis. <i>Geosciences (Switzerland)</i> , 2020, 10, 280.	2.2	9
24	Fractal grain distribution in snow avalanche deposits. <i>Journal of Glaciology</i> , 2012, 58, 340-346.	2.2	8
25	A method to quantitatively assess the vulnerability of masonry structures subjected to rockfalls. <i>Natural Hazards</i> , 2020, 103, 1307-1325.	3.4	8
26	Effect of the Number of Simulations on the Accuracy of a Rockfall Analysis. <i>Procedia Engineering</i> , 2016, 158, 464-469.	1.2	6
27	Energy redistribution patterns in damaged elastic frames. <i>International Journal of Mechanical Sciences</i> , 2021, 194, 106216.	6.7	6
28	Scaling in structural complexity. <i>Complexity</i> , 2014, 20, 57-63.	1.6	5
29	Stiffening Effect of Bolt-On Transducers on Strain Measurements. <i>Latin American Journal of Solids and Structures</i> , 2016, 13, 536-553.	1.0	5
30	A reliability-based method for taking into account snowfall return period in the design of buildings in avalanche-prone areas. <i>Natural Hazards</i> , 2016, 81, 1901-1912.	3.4	5
31	Effects of rockfall on an elastic-plastic member: A novel compliance contact model and dynamic response. <i>Engineering Structures</i> , 2017, 148, 126-144.	5.3	5
32	Series solution of beams with variable cross-section. <i>Procedia Manufacturing</i> , 2020, 44, 489-496.	1.9	5
33	Reliability-based design of rockfall passive systems height. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 139, 104664.	5.8	5
34	Snow Avalanche Impact Measurements at the Seehore Test Site in Aosta Valley (NW Italian Alps). <i>Geosciences (Switzerland)</i> , 2019, 9, 471.	2.2	5
35	Experimental study of the shear strength of a snow-mortar interface. <i>Cold Regions Science and Technology</i> , 2021, 193, 103430.	3.5	4
36	Snow Pressure on a Semiflexible Retaining Structure. <i>Journal of Cold Regions Engineering - ASCE</i> , 2014, 28, 04014002.	1.1	3

#	ARTICLE	IF	CITATIONS
37	A framework for NaTech seismic risk assessment in industrial plants. International Journal of Forensic Engineering, 2016, 3, 86.	0.1	3
38	A protocol to assess the seismic criticality of existing small concrete dams. Structure and Infrastructure Engineering, 2018, 14, 1197-1206.	3.7	3
39	Failure mechanics of snow layers through image analysis. European Journal of Mechanics, A/Solids, 2019, 74, 26-33.	3.7	3
40	A damaged non-homogeneous Timoshenko beam model for a dam subjected to aging effects. Mathematics and Mechanics of Solids, 2021, 26, 694-707.	2.4	3
41	Pressure of Snow Avalanches against Buildings. Applied Mechanics and Materials, 0, 82, 392-397.	0.2	2
42	Robustness of Structures: Role of Graph Complexity. IABSE Symposium Report, 2013, , .	0.0	2
43	Seismic Vulnerability Assessment of Fuel Storage Tanks in Italy. Journal of Pressure Vessel Technology, Transactions of the ASME, 2019, 141, .	0.6	2
44	A mixed quantitative approach to evaluate rockfall risk and the maximum allowable traffic on road infrastructure. Georisk, 2022, 16, 584-594.	3.5	2
45	Robustness Assessment of RC Framed Structures against Progressive Collapse. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032033.	0.6	1
46	Archetypal Use of Artificial Intelligence for Bridge Structural Monitoring. Applied Sciences (Switzerland), 2020, 10, 7157.	2.5	1
47	Robustness of an airport double layer space truss roof. Curved and Layered Structures, 2021, 8, 36-46.	1.3	1
48	A time-independent reliability based design approach for rockfall net fences: a comparative analysis within the Eurocode framework. IOP Conference Series: Earth and Environmental Science, 2021, 833, 012189.	0.3	0