Valerio De Biagi

List of Publications by Year
in descending order

48	653	687363 13	610901 24
papers	citations	h-index	g-index

56	56	56	392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A mixed quantitative approach to evaluate rockfall risk and the maximum allowable traffic on road infrastructure. Georisk, 2022, 16, 584-594.	3.5	2
2	Strengthening and retrofitting techniques to mitigate progressive collapse: A critical review and future research agenda. Engineering Structures, 2022, 262, 114274.	5.3	49
3	Energy redistribution patterns in damaged elastic frames. International Journal of Mechanical Sciences, 2021, 194, 106216.	6.7	6
4	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
5	Robustness of an airport double layer space truss roof. Curved and Layered Structures, 2021, 8, 36-46.	1.3	1
6	Progressive collapse of structures: A discussion on annotated nomenclature. Structures, 2021, 29, 1417-1423.	3.6	29
7	Reliability-based design of rockfall passive systems height. International Journal of Rock Mechanics and Minings Sciences, 2021, 139, 104664.	5.8	5
8	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
9	Blast-induced progressive collapse of steel moment-resisting frames: Numerical studies and a framework for updating the alternate load path method. Engineering Structures, 2021, 242, 112541.	5.3	12
10	Experimental study of the shear strength of a snow-mortar interface. Cold Regions Science and Technology, 2021, 193, 103430.	3.5	4
11	Reliability-Based Design of Protection Net Fences: Influence of Rockfall Uncertainties through a Statistical Analysis. Geosciences (Switzerland), 2020, 10, 280.	2.2	9
12	Archetypal Use of Artificial Intelligence for Bridge Structural Monitoring. Applied Sciences (Switzerland), 2020, 10, 7157.	2.5	1
13	A Simplified Method for Assessing the Response of RC Frame Structures to Sudden Column Removal. Applied Sciences (Switzerland), 2020, 10, 3081.	2.5	13
14	Series solution of beams with variable cross-section. Procedia Manufacturing, 2020, 44, 489-496.	1.9	5
15	Progressive Collapse Assessment of Steel Moment-Resisting Frames Using Static- and Dynamic-Incremental Analyses. Journal of Performance of Constructed Facilities, 2020, 34, .	2.0	26
16	Progressive collapse of framed building structures: Current knowledge and future prospects. Engineering Structures, 2020, 206, 110061.	5.3	147
17	Reliability analysis and partial safety factors approach for rockfall protection structures. Engineering Structures, 2020, 213, 110553.	5.3	15
18	A method to quantitatively assess the vulnerability of masonry structures subjected to rockfalls. Natural Hazards, 2020, 103, 1307-1325.	3.4	8

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19	Seismic Vulnerability Assessment of Fuel Storage Tanks in Italy. Journal of Pressure Vessel Technology, Transactions of the ASME, 2019, 141, .	0.6	2
20	A novel structural resilience index: Definition and applications to frame structures. Mechanics Research Communications, 2019, 99, 52-57.	1.8	17
21	Optimization methods for the evaluation of the parameters of a rockfall fractal fragmentation model. Landslides, 2019, 16, 1385-1396.	5.4	10
22	Dynamic effects induced by the impact of debris flows on protection barriers. International Journal of Protective Structures, 2019, 10, 116-131.	2.3	14
23	Failure mechanics of snow layers through image analysis. European Journal of Mechanics, A/Solids, 2019, 74, 26-33.	3.7	3
24	A quick-assessment procedure to evaluate the degree of conservation of rockfall drapery meshes. Frattura Ed Integrita Strutturale, 2019, 13, 437-450.	0.9	13
25	Snow Avalanche Impact Measurements at the Seehore Test Site in Aosta Valley (NW Italian Alps). Geosciences (Switzerland), 2019, 9, 471.	2.2	5
26	A protocol to assess the seismic criticality of existing small concrete dams. Structure and Infrastructure Engineering, 2018, 14, 1197-1206.	3.7	3
27	Collapse resistance assessment through the implementation of progressive damage in finite element codes. Engineering Structures, 2017, 136, 523-534.	5.3	24
28	A quantitative approach for the evaluation of rockfall risk on buildings. Natural Hazards, 2017, 88, 1059-1086.	3.4	12
29	Robustness Assessment of RC Framed Structures against Progressive Collapse. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032033.	0.6	1
30	Effects of rockfall on an elastic-plastic member: A novel compliance contact model and dynamic response. Engineering Structures, 2017, 148, 126-144.	5.3	5
31	Brief communication: Accuracy of the fallen blocks volume-frequency law. Natural Hazards and Earth System Sciences, 2017, 17, 1487-1492.	3.6	10
32	Estimation of the return period of rockfall blocks according to their size. Natural Hazards and Earth System Sciences, 2017, 17, 103-113.	3.6	47
33	Stiffening Effect of Bolt-On Transducers on Strain Measurements. Latin American Journal of Solids and Structures, 2016, 13, 536-553.	1.0	5
34	Effect of the Number of Simulations on the Accuracy of a Rockfall Analysis. Procedia Engineering, 2016, 158, 464-469.	1.2	6
35	A framework for NaTech seismic risk assessment in industrial plants. International Journal of Forensic Engineering, 2016, 3, 86.	0.1	3
36	Damage tolerance in parallel systems. International Journal of Damage Mechanics, 2016, 25, 1040-1059.	4.2	10

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37	A reliability-based method for taking into account snowfall return period in the design of buildings in avalanche-prone areas. Natural Hazards, 2016, 81, 1901-1912.	3.4	5
38	Structural behavior of a metallic truss under progressive damage. International Journal of Solids and Structures, 2016, 82, 56-64.	2.7	20
39	Impact of snow avalanche on buildings: Forces estimation from structural back-analyses. Engineering Structures, 2015, 92, 15-28.	5.3	17
40	Monitoring and compartmentalized structures. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 638-648.	1.6	11
41	Scaling in structural complexity. Complexity, 2014, 20, 57-63.	1.6	5
42	Snow Pressure on a Semiflexible Retaining Structure. Journal of Cold Regions Engineering - ASCE, 2014, 28, 04014002.	1.1	3
43	Complexity and robustness of frame structures. International Journal of Solids and Structures, 2013, 50, 3723-3741.	2.7	32
44	A new experimental snow avalanche test site at Seehore peak in Aosta Valley (NW Italian Alps) ? Part II: Engineering aspects. Cold Regions Science and Technology, 2013, 86, 14-21.	3.5	9
45	A new experimental snow avalanche test site at Seehore peak in Aosta Valley (NW Italian Alps)â€”part I: Conception and logistics. Cold Regions Science and Technology, 2013, 85, 175-182.	3.5	14
46	Robustness of Structures: Role of Graph Complexity. IABSE Symposium Report, 2013, , .	0.0	2
47	Fractal grain distribution in snow avalanche deposits. Journal of Glaciology, 2012, 58, 340-346.	2.2	8
48	Pressure of Snow Avalanches against Buildings. Applied Mechanics and Materials, 0, 82, 392-397.	0.2	2