MatjaÅ¾ DolÅ¡ek

List of Publications by Year
in descending order

57 papers	2,361 citations	218677 26 h-index	206112 48 g-index
58 all docs	58 docs citations	58 times ranked	1196 citing authors

#	Article	IF	Citations
1	Fatality risk estimation for industrialized urban areas considering multi-hazard domino effects triggered by earthquakes. Reliability Engineering and System Safety, 2021, 206, 107287.	8.9	9
2	Recent Advances in the Research of the Seismic Response of RC Precast Buildings at the University of Ljubljana. Frontiers in Built Environment, 2021, 7, .	2.3	1
3	Seismic Design and Performance Assessment of Frame Buildings Reinforced by Dual-Phase Steel. Applied Sciences (Switzerland), 2021, 11, 4998.	2.5	1
4	Simulating Historical Earthquakes in Existing Cities for Fostering Design of Resilient and Sustainable Communities: The Ljubljana Case. Sustainability, 2021, 13, 7624.	3.2	7
5	The Reduced-Degree-of-Freedom Model for Seismic Analysis of Predominantly Plan-Symmetric Reinforced Concrete Wallâ€“Frame Building. Buildings, 2021, 11, 372.	3.1	5
6	Risk-Based Multilevel Methodology to Stress Test Critical Infrastructure Systems. Journal of Infrastructure Systems, 2020, 26, 04019035.	1.8	21
7	Fatality risk and its application to the seismic performance assessment of a building. Engineering Structures, 2020, 205, 110108.	5.3	10
8	A simplified risk-targeted decision model for the verification of the seismic performance of critical infrastructure components to the operational limit state. Engineering Structures, 2020, 204, 110019.	5.3	5
9	Seismic risk assessment of liquid overtopping in a steel storage tank equipped with a single deck floating roof. Journal of Loss Prevention in the Process Industries, 2020, 67, 104269.	3.3	14
10	Seismic analysis of older and contemporary reinforced concrete frames with the improved fish-bone model. Engineering Structures, 2020, 212, 110514.	5.3	19
11	Pushoverâ€based seismic risk assessment and loss estimation of masonry buildings. Earthquake Engineering and Structural Dynamics, 2020, 49, 567-588.	4.4	17
12	Formulation of riskâ€targeted seismic action for the forceâ€based seismic design of structures. Earthquake Engineering and Structural Dynamics, 2019, 48, 1406-1428.	4.4	37
13	A web-based system for the selection of characteristic ground motions. Advances in Engineering Software, 2019, 135, 102688.	3.8	4
14	Current Challenges and Future Trends in Analytical Fragility and Vulnerability Modeling. Earthquake Spectra, 2019, 35, 1927-1952.	3.1	113
15	A five-grade grading system for the evaluation and communication of short-term and long-term risk posed by natural hazards. Structural Safety, 2019, 78, 48-62.	5.3	6
16	Impact of the type of the target response spectrum for ground motion selection and of the number of ground motions on the pushover-based seismic performance assessment of buildings. Engineering Structures, 2018, 175, 731-742.	5.3	7
17	Fragility functions for unreinforced masonry walls made from hollow clay units. Engineering Structures, 2017, 145, 293-304.	5.3	14
18	IMâ€based and EDPâ€based decision models for the verification of the seismic collapse safety of buildings. Earthquake Engineering and Structural Dynamics, 2017, 46, 2665-2682.	4.4	32

#	Article	IF	Citations
19	Riskâ€based seismic design for collapse safety. Earthquake Engineering and Structural Dynamics, 2016, 45, 1451-1471.	4.4	28
20	Seismic response analysis using characteristic ground motion records for riskâ€based decisionâ€making (3R method). Earthquake Engineering and Structural Dynamics, 2016, 45, 401-420.	4.4	10
21	Dispersions for the pushoverâ€based risk assessment of reinforced concrete frames and cantilever walls. Earthquake Engineering and Structural Dynamics, 2016, 45, 2163-2183.	4.4	19
22	Seismic fragility functions of industrial precast building classes. Engineering Structures, 2016, 118, 357-370.	5.3	67
23	Evaluation of factors influencing the earthquake-resistant design of reinforced concrete frames according to Eurocode 8. Structure and Infrastructure Engineering, 2016, 12, 1323-1341.	3.7	18
24	Analytic Fragility and Limit States [P(EDP|IM)]: Nonlinear Static Procedures. , 2015, , 94-110.		1
25	Analytic Fragility and Limit States [P(EDP|IM)]: Nonlinear Static Procedures. , 2015, , 1-19.		1
26	Incorporating intensity bounds for assessing the seismic safety of structures: Does it matter?. Earthquake Engineering and Structural Dynamics, 2014, 43, 717-738.	4.4	31
27	A closed form solution for seismic risk assessment incorporating intensity bounds. Engineering Structures, 2014, 78, 78-89.	5.3	10
28	Pushover-Based Analysis in Performance-Based Seismic Engineering â€“ A View from Europe. Geotechnical, Geological and Earthquake Engineering, 2014, , 265-277.	0.2	1
29	Envelopeâ€based pushover analysis procedure for the approximate seismic response analysis of buildings. Earthquake Engineering and Structural Dynamics, 2014, 43, 77-96.	4.4	44
30	Approximate seismic risk assessment of building structures with explicit consideration of uncertainties. Earthquake Engineering and Structural Dynamics, 2014, 43, 1483-1502.	4.4	37
31	A webâ€based methodology for the prediction of approximate IDA curves. Earthquake Engineering and Structural Dynamics, 2013, 42, 43-60.	4.4	30
32	The impact of modelling uncertainties on the seismic performance assessment of reinforced concrete frame buildings. Engineering Structures, 2013, 52, 340-354.	5.3	117
33	The importance of ambient and forced vibration measurements for the results of seismic performance assessment of buildings obtained by using a simplified non-linear procedure: case study of an old masonry building. Bulletin of Earthquake Engineering, 2013, 11, 2105-2132.	4.1	18
34	Practiceâ€oriented probabilistic seismic performance assessment of infilled frames with consideration of shear failure of columns. Earthquake Engineering and Structural Dynamics, 2013, 42, 1339-1360.	4.4	54
35	Innovative Computing Environment for Fast and Accurate Prediction of Approximate IDA Curves. Computational Methods in Applied Sciences (Springer), 2013, , 259-272.	0.3	0
36	The sensitivity of seismic response parameters to the uncertain modelling variables of masonry-infilled reinforced concrete frames. Engineering Structures, 2012, 35, 165-177.	5.3	122

#	Article	IF	Citations
37	A practiceâ€oriented estimation of the failure probability of building structures. Earthquake Engineering and Structural Dynamics, 2012, 41, 531-547.	4.4	70
38	Seismic Risk Assessment of Reinforced Concrete Frame with Consideration of Aleatory and Epistemic Uncertainty. Procedia Engineering, 2011, 14, 982-988.	1.2	1
39	Progressive Incremental Dynamic Analysis for First-Mode Dominated Structures. Journal of Structural Engineering, 2011, 137, 445-455.	3.4	61
40	Simplified estimation of seismic risk for reinforced concrete buildings with consideration of corrosion over time. Bulletin of Earthquake Engineering, 2011, 9, 1137-1155.	4.1	34
41	Equivalent constant rates for performance-based seismic assessment of ageing structures. Structural Safety, 2011, 33, 8-18.	5.3	32
42	A Toolbox and Web Application for the Seismic Performance Assessment of Buildings. , 2011, , 233-257.		1
43	Simplified Estimation of Seismic Risk for Buildings with Consideration of Structural Ageing. , 2011, , 211-231.		0
44	Development of computing environment for the seismic performance assessment of reinforced concrete frames by using simplified nonlinear models. Bulletin of Earthquake Engineering, 2010, 8, 1309-1329.	4.1	64
45	A Practice-Oriented Approach for Probabilistic Seismic Assessment of Building Structures. Geotechnical, Geological and Earthquake Engineering, 2010, , 225-233.	0.2	7
46	Incremental dynamic analysis with consideration of modeling uncertainties. Earthquake Engineering and Structural Dynamics, 2009, 38, 805-825.	4.4	236
47	The effect of masonry infills on the seismic response of a four storey reinforced concrete frameâ€"a probabilistic assessment. Engineering Structures, 2008, 30, 3186-3192.	5.3	79
48	The effect of masonry infills on the seismic response of a four-storey reinforced concrete frame â€" a deterministic assessment. Engineering Structures, 2008, 30, 1991-2001.	5.3	281
49	Simplified probabilistic seismic performance assessment of plan-asymmetric buildings. Earthquake Engineering and Structural Dynamics, 2007, 36, 2021-2041.	4.4	60
50	Prediction of the median IDA curve by employing a limited number of ground motion records. Earthquake Engineering and Structural Dynamics, 2007, 36, 2401-2421.	4.4	53
51	Pre- and post-test mathematical modelling of a plan-asymmetric reinforced concrete frame building. Earthquake Engineering and Structural Dynamics, 2006, 35, 1359-1379.	4.4	42
52	Simplified non-linear seismic analysis of infilled reinforced concrete frames. Earthquake Engineering and Structural Dynamics, 2005, 34, 49-66.	4.4	153
53	Inelastic spectra for infilled reinforced concrete frames. Earthquake Engineering and Structural Dynamics, 2004, 33, 1395-1416.	4.4	69
54	Mathematical modelling of an infilled RC frame structure based on the results of pseudo-dynamic tests. Earthquake Engineering and Structural Dynamics, 2002, 31, 1215-1230.	4.4	68

#	Article	IF	Citations
55	SOFT STOREY EFFECTS IN UNIFORMLY INFILLED REINFORCED CONCRETE FRAMES. Journal of Earthquake Engineering, 2001, 5, 1-12.	2.5	94
56	Simplified method for seismic risk assessment of buildings with consideration of aleatory and epistemic uncertainty. Structure and Infrastructure Engineering, 0, , 1-15.	3.7	20
57	Estimation of Scenario-based Liquefaction Probability with Consideration of Ground-motion Randomness. Journal of Earthquake Engineering, 0, , 1-23.	2.5	0