Enrico Spacone

List of Publications by Year
in descending order

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101 papers	4,213 citations	126907 33 h-index	118850 62 g-index
104 all docs	104 docs citations	104 times ranked	2246 citing authors

#	Article	IF	Citations
1	FIBRE BEAM-COLUMN MODEL FOR NON-LINEAR ANALYSIS OF R/C FRAMES: PART I. FORMULATION. Earthquake Engineering and Structural Dynamics, 1996, 25, 711-725.	4.4	749
2	Localization Issues in Force-Based Frame Elements. Journal of Structural Engineering, 2001, 127, 1257-1265.	3.4	267
3	Mixed formulation of nonlinear beam finite element. Computers and Structures, 1996, 58, 71-83.	4.4	244
4	Nonlinear Analysis of Steel-Concrete Composite Structures: State of the Art. Journal of Structural Engineering, 2004, 130, 159-168.	3.4	192
5	FIBRE BEAM-COLUMN MODEL FOR NON-LINEAR ANALYSIS OF R/C FRAMES: PART II. APPLICATIONS. Earthquake Engineering and Structural Dynamics, 1996, 25, 727-742.	4.4	164
6	Reinforced Concrete Fiber Beam Element with Bond-Slip. Journal of Structural Engineering, 2000, 126, 654-661.	3.4	139
7	Nonlinear Analysis of Composite Beams with Deformable Shear Connectors. Journal of Structural Engineering, 1998, 124, 1148-1158.	3.4	126
8	Experimental and nonlinear finite element studies of RC beams strengthened with FRP plates. Composites Part B: Engineering, 2007, 38, 277-288.	12.0	102
9	Micro-scale continuous and discrete numerical models for nonlinear analysis of masonry shear walls. Construction and Building Materials, 2017, 149, 296-314.	7.2	92
10	Finite element formulations of one-dimensional elements with bond-slip. Engineering Structures, 2001, 23, 815-826.	5.3	77
11	Seismic risk assessment and hazard mapping in Nepal. Natural Hazards, 2015, 78, 583-602.	3.4	74
12	Predictive model for the seismic vulnerability assessment of small historic centres: Application to the inner Abruzzi Region in Italy. Engineering Structures, 2017, 153, 81-96.	5.3	72
13	Failure Mode Analyses of Reinforced Concrete Beams Strengthened in Flexure with Externally Bonded Fiber-Reinforced Polymers. Journal of Composites for Construction, 2004, 8, 123-131.	3.2	71
14	Seismic response of RC buildings during the Mw 6.0 August 24, 2016 Central Italy earthquake: the Amatrice case study. Bulletin of Earthquake Engineering, 2019, 17, 5631-5654.	4.1	71
15	Advanced frame element for seismic analysis of masonry structures: model formulation and validation. Earthquake Engineering and Structural Dynamics, 2015, 44, 2489-2506.	4.4	69
16	Finite Element for Anchored Bars under Cyclic Load Reversals. Journal of Structural Engineering, 1997, 123, 614-623.	3.4	67
17	Regularization of first order computational homogenization for multiscale analysis of masonry structures. Computational Mechanics, 2016, 57, 257-276.	4.0	63
18	A new look at reliability of reinforced concrete columns. Structural Safety, 1996, 18, 123-150.	5.3	59

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19	Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. Journal of Structural Engineering, 2002, 128, 346-355.	3.4	56
20	Multiscale computational first order homogenization of thick shells for the analysis of out-of-plane loaded masonry walls. Computer Methods in Applied Mechanics and Engineering, 2017, 315, 273-301.	6.6	56
21	Analysis of Steel-Concrete Composite Frames with Bond-Slip. Journal of Structural Engineering, 2001, 127, 1243-1250.	3.4	55
22	Damage Reconnaissance of Unreinforced Masonry Bearing Wall Buildings after the 2015 Gorkha, Nepal, Earthquake. Earthquake Spectra, 2017, 33, 243-273.	3.1	55
23	Role of Bond in RC Beams Strengthened with Steel and FRP Plates. Journal of Structural Engineering, 2001, 127, 1445-1452.	3.4	54
24	Finite element response sensitivity analysis using force-based frame models. International Journal for Numerical Methods in Engineering, 2004, 59, 1781-1820.	2.8	53
25	Three-dimensional finite element analyses of reinforced concrete columns. Computers and Structures, 2002, 80, 199-212.	4.4	52
26	Modeling and Seismic Response Analysis of Italian Code-Conforming Reinforced Concrete Buildings. Journal of Earthquake Engineering, 2018, 22, 105-139.	2.5	50
27	A 3D hypoplastic model for cyclic analysis of concrete structures. Engineering Structures, 2001, 23, 333-342.	5.3	43
28	Seismic response of current RC buildings in Nepal: A comparative analysis of different design/construction. Engineering Structures, 2013, 49, 284-294.	5.3	42
29	Seismic vulnerability assessment of historic centers: description of a predictive method and application to the case study of scanno (Abruzzi, Italy). International Journal of Architectural Heritage, 2018, 12, 1171-1195.	3.1	41
30	Earthquake loss estimation for the Kathmandu Valley. Bulletin of Earthquake Engineering, 2016, 14, 59-88.	4.1	39
31	Analysis of Test Specimens for Cohesive Near-Bond Failure of Fiber-Reinforced Polymer-Plated Concrete. Journal of Composites for Construction, 2004, 8, 528-538.	3.2	38
32	Numerical investigation of non-linear equivalent-frame models for regular masonry walls. Engineering Structures, 2018, 173, 512-529.	5.3	38
33	Probabilistic seismic response analysis of a 3-D reinforced concrete building. Structural Safety, 2013, 44, 11-27.	5.3	33
34	Performance-based Seismic Risk Assessment of Urban Systems. International Journal of Architectural Heritage, 2018, 12, 1131-1149.	3.1	32
35	Seismic response of current RC buildings in Kathmandu Valley. Structural Engineering and Mechanics, 2015, 53, 791-818.	1.0	29
36	Response reduction factor of irregular RC buildings in Kathmandu valley. Earthquake Engineering and Engineering Vibration, 2014, 13, 455-470.	2.3	26

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37	Seismic Vulnerability of Buildings in Historic Centers: From the â€œUrbanâ€•to the â€œAggregateâ€•Scale. Frontiers in Built Environment, 2019, 5, .	2.3	26
38	The path towards buildings energy efficiency in South American countries. Sustainable Cities and Society, 2019, 44, 646-665.	10.4	26
39	Effects of the vertical seismic component on seismic performance of an unreinforced masonry structures. Bulletin of Earthquake Engineering, 2020, 18, 1635-1656.	4.1	26
40	Nonlinear Dynamic Analysis of a Full-Scale Unreinforced Adobe Model. Earthquake Spectra, 2014, 30, 1643-1661.	3.1	25
41	Analysis of the performance in the linear field of Equivalent-Frame Models for regular and irregular masonry walls. Engineering Structures, 2017, 145, 190-210.	5.3	24
42	A CARTIS-based method for the rapid seismic vulnerability assessment of minor Italian historical centres. International Journal of Disaster Risk Reduction, 2021, 63, 102478.	3.9	23
43	Assessing community resilience, housing recovery and impact of mitigation strategies at the urban scale: a case study after the 2012 Northern Italy Earthquake. Bulletin of Earthquake Engineering, 2020, 18, 6039-6074.	4.1	22
44	Failure analysis of R/C columns using a triaxial concrete model. Computers and Structures, 2000, 77, 423-440.	4.4	21
45	Effects of reinforcement slippage on the non-linear response under cyclic loadings of RC frame structures. Earthquake Engineering and Structural Dynamics, 2003, 32, 2407-2424.	4.4	21
46	Response of reinforced concrete piles including soilâ€“pile interaction effects. Engineering Structures, 2009, 31, 1976-1986.	5.3	21
47	Seismic performance of older R/C frame structures accounting for infills-induced shear failure of columns. Engineering Structures, 2016, 122, 1-13.	5.3	21
48	Analytical Model of Concrete-Filled Fiber-Reinforced Polymer Tubes based on Multiaxial Constitutive Laws. Journal of Structural Engineering, 2005, 131, 1426-1433.	3.4	20
49	Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. Journal of Structural Engineering, 2002, 128, 356-364.	3.4	18
50	Assessment of seismic strengthening solutions for existing low-rise RC buildings in Nepal. Earthquake and Structures, 2015, 8, 511-539.	1.0	18
51	Seismic safety assessment of existing masonry infill structures in Nepal. Earthquake Engineering and Engineering Vibration, 2016, 15, 251-268.	2.3	17
52	Structural Survey and Empirical Seismic Vulnerability Assessment of Dwellings in the Historical Centre of Cusco, Peru. International Journal of Architectural Heritage, 2021, 15, 1395-1423.	3.1	17
53	Nonlinear finite and discrete element simulations of multi-storey masonry walls. Bulletin of Earthquake Engineering, 2022, 20, 2219-2244.	4.1	16
54	Perceptions of Decision-Making Roles and Priorities that Affect Rebuilding after Disaster: The Example of L'Aquila, Italy. Earthquake Spectra, 2013, 29, 843-868.	3.1	15

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55	Nonlinear analysis of masonry structures using fiberâ€section line elements. Earthquake Engineering and Structural Dynamics, 2019, 48, 1345-1364.	4.4	14
56	Simplified stochastic modeling and simulation of unidirectional fiber reinforced composites. Probabilistic Engineering Mechanics, 2004, 19, 33-40.	2.7	13
57	The variability of deformation demand with ground motion intensity. Probabilistic Engineering Mechanics, 2012, 28, 59-65.	2.7	13
58	On the reliability of the equivalent frame models: the case study of the permanently monitored Pizzoliâ€™s town hall. Bulletin of Earthquake Engineering, 2022, 20, 2187-2217.	4.1	13
59	Expected ground motion at the historical site of Poggio Picenze, Central Italy, with reference to current Italian building code. Engineering Geology, 2013, 166, 100-115.	6.3	12
60	DISCUSSION ON DATA RECORDED BY THE ITALIAN STRUCTURAL SEISMIC MONITORING NETWORK ON THREE MASONRY STRUCTURES HIT BY THE 2016-2017 CENTRAL ITALY EARTHQUAKE. , 2019, , .		12
61	Modelling and Seismic Response Analysis of Italian Pre-Code and Low-Code Reinforced Concrete Buildings. Part I: Bare Frames. Journal of Earthquake Engineering, 2023, 27, 1482-1513.	2.5	12
62	Nonlinear Pushover Analysis of RC Structures. , 2000, , 1.		11
63	New light on performance of short and slender reinforced concrete columns under random loads. Engineering Structures, 2001, 23, 147-157.	5.3	11
64	Frame element with lateral deformable supports: Formulations and numerical validation. Computers and Structures, 2006, 84, 942-954.	4.4	11
65	Effects of bond-slip and masonry infills interaction on seismic performance of older R/C frame structures. Soil Dynamics and Earthquake Engineering, 2018, 109, 251-265.	3.8	11
66	An automatic procedure for deriving building portfolios using the Italian â€œCARTISâ€•online database. Structures, 2021, 34, 2974-2986.	3.6	11
67	RINTC PROJECT: NONLINEAR DYNAMIC ANALYSES OF ITALIAN CODE-CONFORMING REINFORCED CONCRETE BUILDINGS FOR RISK OF COLLAPSE ASSESSMENT. , 2017, , .		11
68	Design Procedures of Reinforced Concrete Framed Buildings in Nepal and its Impact on Seismic Safety. Advances in Structural Engineering, 2014, 17, 1419-1442.	2.4	10
69	Seismic Analysis by Macroelements of Fujian Hakka Tulous, Chinese Circular Earth Constructions Listed in the UNESCO World Heritage List. International Journal of Architectural Heritage, 2020, 14, 1551-1566.	3.1	10
70	A simplified model for seismic safety assessment of reinforced concrete buildings: framework and application to a 3-storey plan-irregular moment resisting frame. Engineering Structures, 2022, 250, 113348.	5.3	10
71	Modelling and Seismic Response Analysis of Italian Pre-Code and Low-Code Reinforced Concrete Buildings. Part II: Infilled Frames. Journal of Earthquake Engineering, 2023, 27, 1534-1564.	2.5	10
72	Seismic Demand Sensitivity of Reinforced Concrete Structures to Ground Motion Selection and Modification Methods. Earthquake Spectra, 2014, 30, 1449-1465.	3.1	9

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73	Validation of non-linear equivalent-frame models for irregular masonry walls. Engineering Structures, 2022, 253, 113755.	5.3	9
74	A Discrete-Event Simulation Model of Hospital Patient Flow Following Major Earthquakes. International Journal of Disaster Risk Reduction, 2022, 71, 102825.	3.9	9
75	Graphic dynamic prediction of polarized earthquake incidence response for plan-irregular single story buildings. Bulletin of Earthquake Engineering, 2018, 16, 4971-5001.	4.1	8
76	Collapse limit state definition for seismic assessment of code-conforming RC buildings. International Journal of Advanced Structural Engineering, 2018, 10, 325-337.	1.3	8
77	Cyclic Analyses of Reinforced Concrete Masonry Panels Using a Force-Based Frame Element. Journal of Structural Engineering, 2019, 145, .	3.4	8
78	Ductility reduction factor formulations for seismic design of RC wall and frame structures. Engineering Structures, 2019, 178, 102-115.	5.3	8
79	Nonlinear Winkler-based beam element with improved displacement shape functions. KSCE Journal of Civil Engineering, 2013, 17, 192-201.	1.9	7
80	A Multilevel Approach for the Cultural Heritage Vulnerability and Strengthening: Application to the Melfi Castle. Buildings, 2020, 10, 158.	3.1	7
81	Performance of torsionally eccentric RC wall frame buildings designed to DDBD under bi-directional seismic excitation. Bulletin of Earthquake Engineering, 2020, 18, 3137-3165.	4.1	7
82	A Probability-based Approach for the Definition of the Expected Seismic Damage Evaluated with Non-linear Time-History Analyses. Journal of Earthquake Engineering, 2019, 23, 261-283.	2.5	7
83	Hospital treatment capacity in case of seismic scenario in the Lima Metropolitan area, Peru. International Journal of Disaster Risk Reduction, 2019, 38, 101196.	3.9	6
84	New formulation of ductility reduction factor of RC frame-wall dual systems for design under earthquake loadings. Soil Dynamics and Earthquake Engineering, 2020, 138, 106279.	3.8	6
85	Mohr Circle-based Graphical Vibration Analysis and Earthquake Response of Asymmetric Systems. Procedia Engineering, 2017, 199, 128-133.	1.2	5
86	An Extensive Survey of the Historic Center of Cusco for Its Seismic Vulnerability Assessment. RILEM Bookseries, 2019, , 1257-1267.	0.4	5
87	Seismic Assessment of Râˆ•C Building Structure through Nonlinear Probabilistic Analysis with High-performance Computing. AIP Conference Proceedings, 2008, , .	0.4	4
88	Performance-Based Urban Planning: Framework and Lâ€™Aquila Historic City Center Case Study. International Journal of Architectural Heritage, 2017, , 1-14.	3.1	4
89	GRAPHICAL DYNAMIC TRENDS FOR EARTHQUAKE INCIDENCE RESPONSE OF PLAN-ASYMMETRIC SYSTEMS. , 2015, , .		4
90	SIGNIFICANCE OF EARTHQUAKE INCIDENCE ON RESPONSE OF PLAN-IRREGULAR INFILLED R/C BUILDINGS. , 2015, , .		4

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91	Unification of Mixed Euler-Bernoulli-Von Karman Planar Frame Model and Corotational Approach. Mechanics Based Design of Structures and Machines, 2014, 42, 419-441.	4.7	3
92	A 2D beamâ€column joint macroâ€element for the nonlinear analysis of RC frames. Earthquake Engineering and Structural Dynamics, 2021, 50, 935-954.	4.4	3
93	DEBONDING FAILURE OF RC STRUCTURAL MEMBERS STRENGTHENED WITH FRP LAMINATES. , 2003, , .		3
94	Experimental and Numerical Mechanical Characterization of Unreinforced and Reinforced Masonry Elements with Weak Air Lime Mortar Joints. Sustainability, 2022, 14, 3990.	3.2	3
95	FIBRE BEAMâ€“COLUMN MODEL FOR NONâ€LINEAR ANALYSIS OF R/C FRAMES: PART II. APPLICATIONS. Earthquake Engineering and Structural Dynamics, 1996, 25, 727-742.	4.4	2
96	Use of High Performance Computing for Probabilistic Seismic Response Sensitivity Analyses of a Building Structure. , 0, , .		2
97	Engineering demand parameters for the definition of the collapse limit state for code-conforming reinforced concrete buildings. Engineering Structures, 2022, 266, 114612.	5.3	2
98	Analysis of R/C Beams Strengthened with FRP Plates. , 2001, , 1.		1
99	Nonlinear Lattice-Based Model for Cyclic Analysis of Reinforced Normal and High-Strength Concrete Columns. Advances in Structural Engineering, 2015, 18, 1017-1027.	2.4	1
100	PARAMETRIC STUDIES OF RC BEAMS STRENGTHENED IN FLEXURE WITH EXTERNALLY BONDED FRP. , 2003, , .		1
101	Closure to â€œReinforced Concrete Frame Element with Bond Interfaces. II: State Determination and Numerical Validationâ€•by Sucharat Limkatanyu and Enrico Spacone. Journal of Structural Engineering, 2003, 129, 1430-1430.	3.4	0