

Andreas J Kappos

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,348
citations

29
h-index

45
g-index

99
ext. papers

2,713
ext. citations

3.2
avg, IF

5.32
L-index

#	Paper	IF	Citations
93	A hybrid method for the vulnerability assessment of R/C and URM buildings. <i>Bulletin of Earthquake Engineering</i> , 2006 , 4, 391-413	3.7	215
92	Confinement-sensitive plasticity constitutive model for concrete in triaxial compression. <i>International Journal of Solids and Structures</i> , 2007 , 44, 7021-7048	3.1	145
91	Vulnerability assessment and earthquake damage scenarios of the building stock of Potenza (Southern Italy) using Italian and Greek methodologies. <i>Engineering Structures</i> , 2006 , 28, 357-371	4.7	116
90	Inelastic dynamic analysis of RC bridges accounting for spatial variability of ground motion, site effects and soil-structure interaction phenomena. Part 1: Methodology and analytical tools. <i>Earthquake Engineering and Structural Dynamics</i> , 2003 , 32, 607-627	4	89
89	Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. <i>Journal of Structural Engineering</i> , 2002 , 128, 890-897	3	88
88	Inelastic dynamic analysis of RC bridges accounting for spatial variability of ground motion, site effects and soil-structure interaction phenomena. Part 2: Parametric study. <i>Earthquake Engineering and Structural Dynamics</i> , 2003 , 32, 629-652	4	80
87	Extension of modal pushover analysis to seismic assessment of bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 2006 , 35, 1269-1293	4	76
86	Seismic fragility curves for greek bridges: methodology and case studies. <i>Bulletin of Earthquake Engineering</i> , 2009 , 7, 439-468	3.7	67
85	Feasibility of pre-earthquake strengthening of buildings based on cost-benefit and life-cycle cost analysis, with the aid of fragility curves. <i>Natural Hazards</i> , 2008 , 45, 33-54	3	64
84	Seismic Reliability of RC Frames with Uncertain Drift and Member Capacity. <i>Journal of Structural Engineering</i> , 1999 , 125, 1038-1047	3	63
83	Development of Seismic Risk Scenarios Based on a Hybrid Method of Vulnerability Assessment. <i>Natural Hazards</i> , 1998 , 17, 177-192	3	61
82	Detailed and simplified non-linear models for timber-framed masonry structures. <i>Journal of Cultural Heritage</i> , 2012 , 13, 47-58	2.9	56
81	Analytical prediction of the collapse earthquake for R/C buildings: Suggested methodology. <i>Earthquake Engineering and Structural Dynamics</i> , 1991 , 20, 167-176	4	52
80	Fragility curves for reinforced concrete buildings in Greece. <i>Structure and Infrastructure Engineering</i> , 2010 , 6, 39-53	2.9	46
79	Methodology for the development of bridge-specific fragility curves. <i>Earthquake Engineering and Structural Dynamics</i> , 2017 , 46, 73-93	4	45
78	Development of a seismic damage and loss scenario for contemporary and historical buildings in Thessaloniki, Greece. <i>Soil Dynamics and Earthquake Engineering</i> , 2008 , 28, 836-850	3.5	43
77	Dimensional analysis of the earthquake-induced pounding between adjacent structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2009 , 38, 867-886	4	41

76	Dimensional analysis of yielding and pounding structures for records without distinct pulses. <i>Soil Dynamics and Earthquake Engineering</i> , 2009 , 29, 1170-1180	3-5	40
75	Seismic Response of Adjacent Buildings with Similar or Different Dynamic Characteristics. <i>Earthquake Spectra</i> , 1994 , 10, 293-317	3-4	38
74	Soil-structure interaction effects in analysis of seismic fragility of bridges using an intensity-based ground motion selection procedure. <i>Engineering Structures</i> , 2017 , 151, 366-380	4-7	37
73	Evaluation of seismic response of bridges under asynchronous excitation and comparisons with Eurocode 8-2 provisions. <i>Bulletin of Earthquake Engineering</i> , 2009 , 7, 519-545	3-7	37
72	Probabilistic evaluation of behaviour factors in EC8-designed R/C frames. <i>Engineering Structures</i> , 2000 , 22, 1028-1041	4-7	36
71	Seismic assessment and design of R/C bridges with irregular configuration, including SSI effects. <i>Engineering Structures</i> , 2002 , 24, 1337-1348	4-7	35
70	A gradual spread inelasticity model for R/C beam-columns, accounting for flexure, shear and anchorage slip. <i>Engineering Structures</i> , 2012 , 44, 94-106	4-7	34
69	Tests on Seismically Damaged Reinforced Concrete Walls Repaired and Strengthened Using Fiber-Reinforced Polymers. <i>Journal of Composites for Construction</i> , 2005 , 9, 236-246	3-3	34
68	Seismic Reliability of Masonry-Infilled RC Frames. <i>Journal of Structural Engineering</i> , 2001 , 127, 296-305	3	34
67	A distributed shear and flexural flexibility model with shear-flexure interaction for R/C members subjected to seismic loading. <i>Earthquake Engineering and Structural Dynamics</i> , 2008 , 37, 1349-1370	4	33
66	Numerical study of confinement effectiveness in solid and hollow reinforced concrete bridge piers: Methodology. <i>Computers and Structures</i> , 2009 , 87, 1427-1439	4-5	30
65	A re-evaluation of scaling techniques for natural records. <i>Soil Dynamics and Earthquake Engineering</i> , 2000 , 20, 111-123	3-5	30
64	Seismic damage analysis including inelastic shear-flexure interaction. <i>Bulletin of Earthquake Engineering</i> , 2010 , 8, 27-46	3-7	28
63	Analytical Estimation of Economic Loss for Buildings in the Area Struck by the 1999 Athens Earthquake and Comparison with Statistical Repair Costs. <i>Earthquake Spectra</i> , 2007 , 23, 333-355	3-4	22
62	Experiments and failure analysis of SHCC and reinforced concrete composite slabs. <i>Engineering Failure Analysis</i> , 2015 , 56, 320-331	3-2	21
61	Evaluation of hysteretic response and strength of repaired R/C walls strengthened with FRPs. <i>Engineering Structures</i> , 2007 , 29, 2158-2171	4-7	21
60	Seismic design of R/C buildings with the aid of advanced analytical techniques. <i>Engineering Structures</i> , 2001 , 23, 319-332	4-7	21
59	Effect of Foundation Type and Compliance on Seismic Response of RC Bridges. <i>Journal of Bridge Engineering</i> , 2001 , 6, 120-130	2-7	21

58	An overview of the development of the hybrid method for seismic vulnerability assessment of buildings. <i>Structure and Infrastructure Engineering</i> , 2016 , 12, 1573-1584	2.9	20
57	Extension of direct displacement-based design methodology for bridges to account for higher mode effects. <i>Earthquake Engineering and Structural Dynamics</i> , 2013 , 42, 581-602	4	20
56	Simple and complex modelling of timber-framed masonry walls in Pombalino buildings. <i>Bulletin of Earthquake Engineering</i> , 2014 , 12, 1777-1803	3.7	20
55	A practice-oriented model for pushover analysis of a class of timber-framed masonry buildings. <i>Engineering Structures</i> , 2014 , 75, 489-506	4.7	19
54	Dimensional Analysis of the Earthquake Response of a Pounding Oscillator. <i>Journal of Engineering Mechanics - ASCE</i> , 2010 , 136, 299-310	2.4	19
53	Flexural behaviour of reinforced concrete jacketed columns under reversed cyclic loading. <i>Engineering Structures</i> , 2014 , 76, 270-282	4.7	18
52	Test results and strength estimation of R/C beams strengthened against flexural or shear failure by the use of SRP and CFRP. <i>Composites Part B: Engineering</i> , 2012 , 43, 1117-1129	10	17
51	Analytical Stress-Strain Model for High-Strength Concrete Members under Cyclic Loading. <i>Journal of Structural Engineering</i> , 2007 , 133, 484-494	3	17
50	A deformation-based seismic design method for 3D R/C irregular buildings using inelastic dynamic analysis. <i>Bulletin of Earthquake Engineering</i> , 2010 , 8, 875-895	3.7	16
49	Bridge-specific fragility analysis: when is it really necessary?. <i>Bulletin of Earthquake Engineering</i> , 2019 , 17, 2245-2280	3.7	16
48	Semi-Active Control Systems in Bridge Engineering: A Review of the Current State of Practice. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2016 , 26, 290-300	1	14
47	Assessment of concrete bridges subjected to ground motion with an arbitrary angle of incidence: static and dynamic approach. <i>Bulletin of Earthquake Engineering</i> , 2013 , 11, 581-605	3.7	13
46	Tests on RC Beams Strengthened at the Span with Externally Bonded Polymers Reinforced with Carbon or Steel Fibers. <i>Journal of Composites for Construction</i> , 2012 , 16, 551-562	3.3	13
45	A COMPARATIVE ASSESSMENT OF R/C STRUCTURES DESIGNED TO THE 1995 EUROCODE 8 AND THE 1985 CEB SEISMIC CODE. <i>Structural Design of Tall Buildings</i> , 1997 , 6, 59-83		13
44	Site-dependent design spectra and strength modification factors, based on records from Greece. <i>Soil Dynamics and Earthquake Engineering</i> , 2007 , 27, 1012-1027	3.5	13
43	A combined local damage index for seismic assessment of existing RC structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2013 , 42, 833-852	4	12
42	Dimensional analysis of the earthquake-induced pounding between inelastic structures. <i>Bulletin of Earthquake Engineering</i> , 2011 , 9, 561-579	3.7	12
41	Numerical study of confinement effectiveness in solid and hollow reinforced concrete bridge piers: Analysis results and discussion. <i>Computers and Structures</i> , 2009 , 87, 1440-1450	4.5	12

40	Problems associated with direct displacement-based design of concrete bridges with single-column piers, and some suggested improvements. <i>Bulletin of Earthquake Engineering</i> , 2012 , 10, 1237-1266	3.7	11
39	Seismic assessment of bridges accounting for nonlinear material and soil response, and varying boundary conditions. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009 , 195-208 ^{0.3}	0.3	10
38	Practical nonlinear analysis of unreinforced concrete tunnel linings. <i>Tunnelling and Underground Space Technology</i> , 2014 , 40, 127-140	5.7	9
37	Evaluation and suggestions for improvement of seismic design procedures for R/C walls in dual systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2011 , 40, 35-53	4	9
36	A contribution to seismic shear design of R/C walls in dual structures. <i>Bulletin of Earthquake Engineering</i> , 2007 , 5, 443-466	3.7	9
35	Estimating fixed-end rotations of reinforced concrete members at yielding and ultimate. <i>Structural Concrete</i> , 2015 , 16, 537-545	2.6	8
34	The effect of preloading on the strength of jacketed R/C columns. <i>Construction and Building Materials</i> , 2013 , 38, 54-63	6.7	8
33	Deformation-based seismic design of concrete bridges. <i>Earthquake and Structures</i> , 2015 , 9, 1045-1067		8
32	Modelling of R/C members accounting for shear failure localisation: Finite element model and verification. <i>Earthquake Engineering and Structural Dynamics</i> , 2018 , 47, 1631-1650	4	7
31	Response Modification Factors for Concrete Bridges in Europe. <i>Journal of Bridge Engineering</i> , 2013 , 18, 1328-1335	2.7	7
30	SHEAR HYSTERESIS MODEL FOR REINFORCED CONCRETE ELEMENTS INCLUDING THE POST-PEAK RANGE 2015 ,		6
29	A vector-valued ground motion intensity measure incorporating normalized spectral area. <i>Bulletin of Earthquake Engineering</i> , 2017 , 15, 249-270	3.7	5
28	Dynamics and seismic performance of rocking bridges accounting for the abutment-backfill contribution. <i>Earthquake Engineering and Structural Dynamics</i> , 2020 , 49, 1161-1179	4	5
27	Modelling of R/C members accounting for shear failure localisation: Hysteretic shear model. <i>Earthquake Engineering and Structural Dynamics</i> , 2018 , 47, 1722-1741	4	5
26	Further development of a multimodal pushover analysis procedure for seismic assessment of bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 2009 , 39, n/a-n/a	4	5
25	Seismic Retrofitting and Health Monitoring of School Buildings of Cyprus. <i>Open Construction and Building Technology Journal</i> , 2013 , 7, 208-220	1.1	5
24	Fragility Curves and Loss Estimation for Traditional Timber-Framed Masonry Buildings in Lefkas, Greece. <i>Computational Methods in Applied Sciences (Springer)</i> , 2015 , 199-233	0.4	4
23	Seismic Risk of Inter-urban Transportation Networks. <i>Procedia Economics and Finance</i> , 2014 , 18, 263-270		4

22	Problems in Pushover Analysis of Bridges Sensitive to Torsion. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 99-122	0.4	4
21	Partial inelastic analysis procedure for optimum capacity design of R/C buildings 2019 , 229-240		4
20	Fragility-informed selection of bridge retrofit scheme based on performance criteria. <i>Engineering Structures</i> , 2021 , 234, 111976	4.7	4
19	Direct estimation of seismic response in reduced-degree-of-freedom isolation and energy dissipation systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2019 , 48, 1112-1133	4	3
18	Analytical prediction of the collapse earthquake for R/C buildings: Case studies. <i>Earthquake Engineering and Structural Dynamics</i> , 1991 , 20, 177-190	4	3
17	Performance-Based Seismic Design and Assessment of Bridges. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2015 , 163-205	0.2	3
16	Seismic Vulnerability and Collapse Probability Assessment of Buildings in Greece 2011 , 153-170		3
15	An online platform for bridge-specific fragility analysis of as-built and retrofitted bridges. <i>Bulletin of Earthquake Engineering</i> , 2022 , 20, 1717-1737	3.7	2
14	Tests on composite slabs and evaluation of relevant Eurocode 4 provisions. <i>Steel and Composite Structures</i> , 2012 , 13, 571-586		2
13	Protection of Buildings from Earthquake-Induced Vibration 1393-1403		2
12	Seismic Vulnerability and Loss Assessment for Buildings in Greece 111-160		2
11	The Dynamic Intelligent Bridge: A New Concept in Bridge Dynamics. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2019 , 373-383	0.2	1
10	Numerical Investigation and Empirical Seismic Vulnerability Assessment of Timber-Framed Masonry Buildings. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2015 , 60-84	0.5	1
9	Damage Analysis of Reinforced Concrete Structures with Substandard Detailing. <i>Computational Methods in Applied Sciences (Springer)</i> , 2013 , 149-176	0.4	1
8	Seismic Design of Bridges: Present and Future. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2018 , 459-499	0.2	1
7	Background to the Monolithicity Factors for the Assessment of Jacketed Reinforced Concrete Columns. <i>Buildings</i> , 2022 , 12, 55	3.2	0
6	Methods for Inelastic Analysis of Bridges. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2012 , 85-128	0.2	
5	Analysis of shear-critical reinforced concrete columns under variable axial load. <i>Magazine of Concrete Research</i> , 1-12	2	

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| 4 | Elastic and inelastic earthquake spectra for Greece based on a representative set of records. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2014 , 29-38 | |
| 3 | A Performance-Based Seismic Design Procedure for 3D R/C Buildings, Explicitly Accounting for Deformation Control. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010 , 149-159 | 0.2 |
| 2 | Current Trends in the Seismic Design and Assessment of Buildings. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010 , 249-277 | 0.2 |
| 1 | Case Studies and Comparative Evaluation of Methods. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2012 , 129-212 | 0.2 |