Mohammad Mehdi Kashani

List of Publications by Year
in descending order

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45 papers	1,719 citations	377584 21 h-index	325983 40 g-index
45 all docs	45 docs citations	45 times ranked	804 citing authors

#	Article	IF	Citations
1	Nonlinear structural performance and seismic fragility of corroded reinforced concrete structures: modelling guidelines. European Journal of Environmental and Civil Engineering, 2022, 26, 5374-5403.	1.0	13
2	Seismic vulnerability assessment of ageing reinforced concrete structures under real mainshock-aftershock ground motions. Structure and Infrastructure Engineering, 2022, 18, 1674-1690.	2.0	14
3	Influence of ground motion type on nonlinear seismic behaviour and fragility of corrosion-damaged reinforced concrete bridge piers. Bulletin of Earthquake Engineering, 2022, 20, 1489-1518.	2.3	10
4	Nonlinear seismic fragility analysis of a resilient precast post-tensioned segmental bridge pier. Sustainable and Resilient Infrastructure, 2022, 7, 823-841.	1.7	3
5	Rapid post-earthquake damage assessment of ageing reinforced concrete bridge piers using time-frequency analysis. Structure and Infrastructure Engineering, 2021, 17, 1228-1244.	2.0	7
6	Fragility analysis of rectangular and circular reinforced concrete columns under bidirectional multiple excitations. Engineering Structures, 2021, 233, 111887.	2.6	21
7	A Markov chain-based model for structural vulnerability assessmentof corrosion-damaged reinforced concrete bridges. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200290.	1.6	16
8	Seismic vulnerability assessment of precast post-tensioned segmental bridge piers subject to far-fault ground motions. Structures, 2021, 34, 2566-2579.	1.7	10
9	Lateral dynamic bridge deckâ€“pier interaction for ultra-high-speed Hyperloop train loading. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2020, 173, 198-206.	0.3	6
10	Numerical investigation of nonlinear static and dynamic behaviour of self-centring rocking segmental bridge piers. Soil Dynamics and Earthquake Engineering, 2020, 128, 105876.	1.9	38
11	Nonlinear dynamic behaviour of severely corroded reinforced concrete columns: shaking table study. Bulletin of Earthquake Engineering, 2020, 18, 1417-1443.	2.3	37
12	Numerical investigation of the influence of cross-sectional shape and corrosion damage on failure mechanisms of RC bridge piers under earthquake loading. Bulletin of Earthquake Engineering, 2020, 18, 4939-4961.	2.3	33
13	Micromechanical modelling of mortar joints and brick-mortar interfaces in masonry Structures: A review of recent developments. Structures, 2020, 23, 831-844.	1.7	23
14	Influence of Bar Diameter on Low-Cycle Fatigue Degradation of Reinforcing Bars. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	12
15	Significance of non-stationary characteristics of ground-motion on structural damage: shaking table study. Bulletin of Earthquake Engineering, 2019, 17, 4885-4907.	2.3	18
16	Residual Capacity of Corroded Reinforced Concrete Bridge Components: State-of-the-Art Review. Journal of Bridge Engineering, 2019, 24, .	1.4	66
17	Layered composite entangled wire materials blocks as pre-tensioned vertebral rocking columns. Composite Structures, 2019, 214, 153-163.	3.1	21
18	Influence of advanced structural modeling technique, mainshock-aftershock sequences, and ground-motion types on seismic fragility of low-rise RC structures. Soil Dynamics and Earthquake Engineering, 2019, 117, 263-279.	1.9	46

#	Article	IF	Citations
19	Non-linear flexural behaviour of RC columns including bar buckling and fatigue degradation. Magazine of Concrete Research, 2018, 70, 231-247.	0.9	34
20	Exploring the impact of chloride-induced corrosion on seismic damage limit states and residual capacity of reinforced concrete structures. Structure and Infrastructure Engineering, 2018, 14, 714-729.	2.0	73
21	Experimental investigation of a novel class of self-centring spinal rocking column. Journal of Sound and Vibration, 2018, 437, 308-324.	2.1	26
22	Tensegrity cell mechanical metamaterial with metal rubber. Applied Physics Letters, 2018, 113, .	1.5	22
23	Probabilistic seismic vulnerability analysis of corroded reinforced concrete frames including spatial variability of pitting corrosion. Soil Dynamics and Earthquake Engineering, 2018, 114, 97-112.	1.9	79
24	Size Effect on Inelastic Buckling Behavior of Accelerated Pitted Corroded Bars in Porous Media. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	22
25	Fatigue life assessment of large scale T-jointed steel truss bridge components. Journal of Constructional Steel Research, 2017, 133, 499-509.	1.7	20
26	Influence of non-stationary content of ground-motions on nonlinear dynamic response of RC bridge piers. Bulletin of Earthquake Engineering, 2017, 15, 3897-3918.	2.3	17
27	Nonlinear dynamics of self-centring segmental composite rocking column. Procedia Engineering, 2017, 199, 441-446.	1.2	5
28	Structural capacity assessment of corroded RC bridge piers. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2017, 170, 28-41.	0.3	18
29	Autotuning of Isotropic Hardening Constitutive Models on Real Steel Buckling Data with Finite Element Based Multistart Global Optimisation on Parallel Computers. Modelling and Simulation in Engineering, 2017, 2017, 1-10.	0.4	4
30	Computational Modelling Strategies for Nonlinear Response Prediction of Corroded Circular RC Bridge Piers. Advances in Materials Science and Engineering, 2016, 2016, 1-15.	1.0	22
31	Nonlinear fibre element modelling of RC bridge piers considering inelastic buckling of reinforcement. Engineering Structures, 2016, 116, 163-177.	2.6	85
32	Nonlinear dynamic analysis and seismic fragility assessment of a corrosion damaged integral bridge. International Journal of Structural Integrity, 2016, 7, .	1.8	29
33	Assessment of U-type wrought iron railway bridges. Proceedings of the ICE - Engineering History and Heritage, 2016, 169, 58-67.	0.1	7
34	A multi-mechanical nonlinear fibre beam-column model for corroded columns. International Journal of Structural Integrity, 2016, 7, .	1.8	10
35	Influence of inelastic buckling on low-cycle fatigue degradation of reinforcing bars. Construction and Building Materials, 2015, 94, 644-655.	3.2	71
36	Impact of corrosion on low-cycle fatigue degradation of reinforcing bars with the effect of inelastic buckling. International Journal of Fatigue, 2015, 77, 174-185.	2.8	64

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37	Phenomenological hysteretic model for corroded reinforcing bars including inelastic buckling and low-cycle fatigue degradation. Computers and Structures, 2015, 156, 58-71.	2.4	123
38	Dynamic mechanical behavior of nickel-based superalloy metal rubber. Materials & Design, 2014, 56, 69-77.	5.1	59
39	Finite element investigation of the influence of corrosion pattern on inelastic buckling and cyclic response of corroded reinforcing bars. Engineering Structures, 2014, 75, 113-125.	2.6	69
40	Nonlinear cyclic response of corrosion-damaged reinforcing bars with the effect of buckling. Construction and Building Materials, 2013, 41, 388-400.	3.2	91
41	Compression mechanics of nickel-based superalloy metal rubber. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 580, 305-312.	2.6	83
42	Nonlinear stressâ€“strain behaviour of corrosion-damaged reinforcing bars including inelastic buckling. Engineering Structures, 2013, 48, 417-429.	2.6	168
43	Use of a 3D optical measurement technique for stochastic corrosion pattern analysis of reinforcing bars subjected to accelerated corrosion. Corrosion Science, 2013, 73, 208-221.	3.0	123
44	Earthquake and Large Structures Testing at the Bristol Laboratory for Advanced Dynamics Engineering. Geotechnical, Geological and Earthquake Engineering, 2012, , 21-41.	0.1	0
45	A lumped plasticity model for corrosion damaged reinforced concrete columns. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 0, , 1-48.	0.3	1