Pooya Zakian

List of Publications by Year
in descending order

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		759233	752698
21	431	12	20
papers	citations	h-index	g-index

21	21	21	333
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved GWO algorithm for optimal design of truss structures. Engineering With Computers, 2018, 34, 685-707.	6.1	83
2	Economic dispatch of power systems using an adaptive charged system search algorithm. Applied Soft Computing Journal, 2018, 73, 607-622.	7.2	50
3	Optimal seismic design of Reinforced Concrete shear wall-frame structures. KSCE Journal of Civil Engineering, 2014, 18, 2181-2190.	1.9	40
4	Optimal design of steel frames under seismic loading using two meta-heuristic algorithms. Journal of Constructional Steel Research, 2013, 82, 111-130.	3.9	39
5	A stochastic spectral finite element method for wave propagation analyses with medium uncertainties. Applied Mathematical Modelling, 2018, 63, 84-108.	4.2	29
6	Meta-heuristic design optimization of steel moment resisting frames subjected to natural frequency constraints. Advances in Engineering Software, 2019, 135, 102686.	3.8	23
7	Identification of multiple flaws in 2D structures using dynamic extended spectral finite element method with a universally enhanced meta-heuristic optimizer. Structural and Multidisciplinary Optimization, 2018, 57, 605-623.	3.5	20
8	A novel stochastic-spectral finite element method for analysis of elastodynamic problems in the time domain. Meccanica, 2016, 51, 893-920.	2.0	19
9	A stochastic spectral finite element method for solution of faulting-induced wave propagation in materially random continua without explicitly modeled discontinuities. Computational Mechanics, 2019, 64, 1017-1048.	4.0	17
10	Topology optimization of shear wall structures under seismic loading. Earthquake Engineering and Engineering Vibration, 2020, 19, 105-116.	2.3	15
11	Transient wave propagations with the Noh-Bathe scheme and the spectral element method. Computers and Structures, 2021, 254, 106531.	4.4	15
12	Graph theoretical methods for efficient stochastic finite element analysis of structures. Computers and Structures, 2017, 178, 29-46.	4.4	13
13	Optimal design of steel pipe rack structures using PSO, GWO, and IGWO algorithms. Advances in Structural Engineering, 2021, 24, 2529-2541.	2.4	13
14	Finite cell method for detection of flaws in plate structures using dynamic responses. Structures, 2021, 34, 327-338.	3.6	11
15	Reduced record method for efficient time history dynamic analysis and optimal design. Earthquake and Structures, 2015, 8, 639-663.	1.0	11
16	An efficient stochastic dynamic analysis of soil media using radial basis function artificial neural network. Frontiers of Structural and Civil Engineering, 2017, 11, 470-479.	2.9	9
17	Stochastic finite cell method for structural mechanics. Computational Mechanics, 2021, 68, 185-210.	4.0	8
18	Uncertainty analysis of elastostatic problems incorporating a new hybrid stochastic-spectral finite element method. Mechanics of Advanced Materials and Structures, 2017, 24, 1030-1042.	2.6	6

#	Article	IF	Citations
19	An efficient seismic analysis of regular skeletal structures via graph product rules and canonical forms. Earthquake and Structures, 2016, 10, 25-51.	1.0	6
20	A Monte Carlo adapted finite element method for dislocation simulation of faults with uncertain geometry. Journal of Earth System Science, 2017, 126, 1.	1.3	4
21	Finite element simulation for elastic dislocation of the North-Tehran fault: The effects of geologic layering and slip distribution for the segment located in Karaj. Frontiers of Structural and Civil Engineering, 0, , .	2.9	0