

Pejman Sharafi

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,327
citations

361413

20
h-index

361022

35
g-index

59
all docs

59
docs citations

59
times ranked

672
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence and smart vision for building and construction 4.0: Machine and deep learning methods and applications. <i>Automation in Construction</i> , 2022, 141, 104440.	9.8	189
2	Interlocking system for enhancing the integrity of multi-storey modular buildings. <i>Automation in Construction</i> , 2018, 85, 263-272.	9.8	106
3	Enhancing the permeability and abrasion resistance of concrete using colloidal nano-SiO ₂ oxide and spraying nanosilicon practices. <i>Construction and Building Materials</i> , 2017, 146, 128-135.	7.2	76
4	Numerical models for lateral behaviour analysis of cold-formed steel framed walls: State of the art, evaluation and challenges. <i>Thin-Walled Structures</i> , 2019, 138, 252-285.	5.3	69
5	Automated spatial design of multi-story modular buildings using a unified matrix method. <i>Automation in Construction</i> , 2017, 82, 31-42.	9.8	68
6	Lateral force resisting systems in lightweight steel frames: Recent research advances. <i>Thin-Walled Structures</i> , 2018, 130, 231-253.	5.3	66
7	Identification of Factors and Decision Analysis of the Level of Modularization in Building Construction. <i>Journal of Architectural Engineering</i> , 2018, 24, 04018010.	1.6	62
8	Collapse capacity of modular steel buildings subject to module loss scenarios: The role of inter-module connections. <i>Engineering Structures</i> , 2020, 210, 110373.	5.3	47
9	Shape optimization of thin-walled steel sections using graph theory and ACO algorithm. <i>Journal of Constructional Steel Research</i> , 2014, 101, 331-341.	3.9	40
10	A new model for bridge management: Part A: condition assessment and priority ranking of bridges. <i>Australian Journal of Civil Engineering</i> , 2016, 14, 35-45.	1.6	39
11	A new model for bridge management: Part B: decision support system for remediation planning. <i>Australian Journal of Civil Engineering</i> , 2016, 14, 46-53.	1.6	37
12	Heuristic Approach for Optimum Cost and Layout Design of 3D Reinforced Concrete Frames. <i>Journal of Structural Engineering</i> , 2012, 138, 853-863.	3.4	35
13	Anti-collapse resistance mechanisms in corner-supported modular steel buildings. <i>Journal of Constructional Steel Research</i> , 2020, 170, 106083.	3.9	34
14	Experimental Investigation of a Base Isolation System Incorporating MR Dampers with the High-Order Single Step Control Algorithm. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 344.	2.5	28
15	Geometric Design Optimization for Dynamic Response Problems of Continuous Reinforced Concrete Beams. <i>Journal of Computing in Civil Engineering</i> , 2014, 28, 202-209.	4.7	27
16	Lateral behaviour of hybrid cold-formed and hot-rolled steel wall systems: Experimental investigation. <i>Journal of Constructional Steel Research</i> , 2018, 147, 422-432.	3.9	27
17	The influence of inter-module connections on the effective length of columns in multi-story modular steel frames. <i>Journal of Constructional Steel Research</i> , 2021, 177, 106450.	3.9	27
18	Nodal ordering for bandwidth reduction using ant system algorithm. <i>Engineering Computations</i> , 2009, 26, 313-323.	1.4	23

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19	Adipocyte differentiation defect in mesenchymal stromal cells of patients with malignant infantile osteopetrosis. <i>Cytotherapy</i> , 2009, 11, 392-402.	0.7	22
20	Conceptual design optimization of rectilinear building frames: A knapsack problem approach. <i>Engineering Optimization</i> , 2015, 47, 1303-1323.	2.6	22
21	Seismic collapse assessment of a hybrid cold-formed hot-rolled steel building. <i>Journal of Constructional Steel Research</i> , 2019, 155, 504-516.	3.9	20
22	Optimal priority functions for profile reduction using ant colony optimization. <i>Finite Elements in Analysis and Design</i> , 2008, 44, 131-138.	3.2	19
23	Lateral performance of a new hybrid CFS shear wall panel for mid-rise construction. <i>Journal of Constructional Steel Research</i> , 2020, 168, 106000.	3.9	19
24	Edgewise and flatwise compressive behaviour of foam-filled sandwich panels with 3-D high density polyethylene skins. <i>Engineering Solid Mechanics</i> , 2018, , 285-298.	1.2	15
25	Prefabricated hybrid steel wall panels for mid-rise construction in seismic regions. <i>Journal of Building Engineering</i> , 2020, 27, 100942.	3.4	15
26	Ant colony optimization for finding medians of weighted graphs. <i>Engineering Computations</i> , 2008, 25, 102-120.	1.4	14
27	Numerical modelling and design of hybrid cold-formed steel wall panels. <i>Thin-Walled Structures</i> , 2020, 157, 107084.	5.3	14
28	Operational Modal Analysis, Testing and Modelling of Prefabricated Steel Modules with Different LSF Composite Walls. <i>Materials</i> , 2020, 13, 5816.	2.9	13
29	Natural dynamic characteristics of volumetric steel modules with gypsum sheathed LSF walls: Experimental study. <i>Structures</i> , 2021, 33, 272-282.	3.6	12
30	Reinforcement methods for compression perpendicular to grain in top/bottom plates of light timber frames. <i>Construction and Building Materials</i> , 2020, 231, 116377.	7.2	11
31	System Identification of a Volumetric Steel Modular Frame Using Experimental and Numerical Vibration Analysis. <i>Journal of Architectural Engineering</i> , 2021, 27, .	1.6	11
32	Flexural and shear performance of an innovative foam-filled sandwich panel with 3-D high density polyethylene skins. <i>Engineering Solid Mechanics</i> , 2018, , 113-128.	1.2	10
33	Development of an Innovative Modular Foam-Filled Panelized System for Rapidly Assembled Postdisaster Housing. <i>Buildings</i> , 2018, 8, 97.	3.1	10
34	Gravity-Induced Progressive Collapse Response of Precast Corner-Supported Modular Buildings. <i>Journal of Architectural Engineering</i> , 2021, 27, .	1.6	9
35	Structural Performance of Polyurethane Foam-Filled Building Composite Panels: A State-Of-The-Art. <i>Journal of Composites Science</i> , 2019, 3, 40.	3.0	8
36	Experimental investigation on load bearing capacity of full scaled light timber framed wall for mid-rise buildings. <i>Construction and Building Materials</i> , 2020, 231, 117069.	7.2	8

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37	Punching behaviour of foam filled modular sandwich panels with high-density polyethylene skins. Journal of Building Engineering, 2021, 33, 101634.	3.4	8
38	Structural performance and sustainability assessment of hybrid-cold formed modular steel frame. Journal of Building Engineering, 2021, 34, 101895.	3.4	8
39	Robustness of multistory corner-supported modular steel frames against progressive collapse. Structural Design of Tall and Special Buildings, 2021, 30, e1896.	1.9	8
40	Optimum Column Layout Design of Reinforced Concrete Frames Under Wind Loading. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 327-340.	0.5	7
41	Effect of MetaFoundation on the Seismic Responses of Liquid Storage Tanks. Applied Sciences (Switzerland), 2022, 12, 2514.	2.5	7
42	Automated layout design of multi-span reinforced concrete beams using charged system search algorithm. Engineering Computations, 2018, 35, 1402-1413.	1.4	5
43	Optimum Spans™ Lengths of Multi-span Reinforced Concrete Beams Under Dynamic Loading. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 353-361.	0.5	5
44	Experimental Study on the Natural Dynamic Characteristics of Steel-Framed Modular Structures. Buildings, 2022, 12, 587.	3.1	5
45	Cost Optimization of Column Layout Design of Reinforced Concrete Buildings. , 2013, , 129-146.		4
46	A Comparative Life Cycle Assessment of Recycling the Platinum Group Metals from Automobile Catalytic Converter: An Australian Perspective. Metallurgical and Materials Transactions E, 2017, 4, 77-88.	0.5	4
47	Behavior of integrated connections between adjacent foam-filled modular sandwich panels. Engineering Solid Mechanics, 2018, , 361-370.	1.2	3
48	Effects of cold joints on the structural behaviour of polyurethane rigid foam panels. Engineering Solid Mechanics, 2019, , 1-12.	1.2	3
49	Seismic Performance and Ice-Induced Vibration Control of Offshore Platform Structures Based on the ISO-PFD-SMA Brace System. Advances in Materials Science and Engineering, 2017, 2017, 1-15.	1.8	2
50	Optimum spanning for rectangular floor systems “ part 2: an algorithm and practical applications. Australian Journal of Civil Engineering, 2016, 14, 106-113.	1.6	1
51	An experimental study on the lateral pressure in foam-filled wall panels with pneumatic formwork. Case Studies in Construction Materials, 2018, 9, e00203.	1.7	1
52	Experimental and Numerical Study on the Robustness of Full-Scale Volumetric Steel Module under Sudden Support Removal Scenarios. Journal of Performance of Constructed Facilities, 2022, 36, .	2.0	1
53	A Methodology for Cost Optimization of the Layout Design of Multi-Span Reinforced Concrete Beams. , 0, , .		1
54	Closure to “Geometric Design Optimization for Dynamic Response Problems of Continuous Reinforced Concrete Beams” by P. Sharafi, M. N. S. Hadi, and Lip H. Teh. Journal of Computing in Civil Engineering, 2015, 29, 07014003.	4.7	0

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55	Optimum spanning for rectangular floor systems “ part 1: a unified combinatorial approach. Australian Journal of Civil Engineering, 2016, 14, 97-105.	1.6	0
56	Sizing Optimization of Trapezoidal Corrugated Roof Sheeting, Supporting Solar Panels, Under Wind Loading. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 535-542.	0.5	0
57	A Novel Formulation for Optimum Conceptual Design of Buildings of Rectangular Shapes. , 0, , .		0