

Keerthan Poologanathan

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

680
citations

586496

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23
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54
all docs

54
docs citations

54
times ranked

308
citing authors

#	ARTICLE	IF	CITATIONS
1	Web crippling behaviour of slotted perforated cold-formed steel channels: IOF load case. Journal of Constructional Steel Research, 2022, 188, 106974.	1.7	9
2	Shear behaviour of doubly symmetric rectangular hollow flange beam with circular edge-stiffened openings. Engineering Structures, 2022, 250, 113366.	2.6	7
3	Shear behaviour of screw fastened rectangular hollow flange beams with web openings. Journal of Constructional Steel Research, 2022, 189, 107019.	1.7	2
4	Flexural behaviour and design of hollow flange cold-formed steel beam filled with lightweight normal and lightweight high strength concrete. Journal of Building Engineering, 2022, 48, 103878.	1.6	4
5	The challenges confronting the growth of sustainable prefabricated building construction in Australia: Construction industry views. Journal of Building Engineering, 2022, 48, 103935.	1.6	29
6	Finite Element Modelling to Predict the Fire Performance of Bio-Inspired 3D-Printed Concrete Wall Panels Exposed to Realistic Fire. Buildings, 2022, 12, 111.	1.4	7
7	Shear performance of SupaCee sections with openings: Numerical studies. Journal of Constructional Steel Research, 2022, 190, 107142.	1.7	7
8	Web Crippling Behaviour of Cold-Formed High Strength Steel Unlipped Channel Beams. Buildings, 2022, 12, 291.	1.4	9
9	Web crippling behaviour of cold-formed high-strength steel unlipped channel beams under End-One-Flange load case. Case Studies in Construction Materials, 2022, 16, e01022.	0.8	0
10	Informed Finite Element Modelling for Wire and Arc Additively Manufactured Metallicsâ€™A Case Study on Modular Building Connections. Buildings, 2022, 12, 5.	1.4	2
11	Shear performance of lightweight concrete filled hollow flange cold-formed steel beams. Case Studies in Construction Materials, 2022, , e01160.	0.8	1
12	Web crippling design of channel beams: Carbon steel, stainless steel and aluminium. Journal of Constructional Steel Research, 2022, 196, 107427.	1.7	4
13	Web crippling tests of cold-formed steel channels with staggered web perforations. Thin-Walled Structures, 2021, 159, 107314.	2.7	12
14	Performance of timber girders with end-notch: Experimental and numerical investigation. Structures, 2021, 29, 730-740.	1.7	11
15	Numerical simulation and design of stainless steel hollow flange beams under shear. Journal of Constructional Steel Research, 2021, 176, 106414.	1.7	4
16	Numerical Study of Fire and Energy Performance of Innovative Light-Weight 3D Printed Concrete Wall Configurations in Modular Building System. Sustainability, 2021, 13, 2314.	1.6	17
17	Crack Detection and Localisation in Steel-Fibre-Reinforced Self-Compacting Concrete Using Triaxial Accelerometers. Sensors, 2021, 21, 2044.	2.1	5
18	Bending-shear interaction of cold-formed stainless steel lipped channel sections. Structures, 2021, 30, 1042-1055.	1.7	4

#	ARTICLE	IF	CITATIONS
19	The Importance of Stud Flanges Size and Shape on the Thermal Performance of Lightweight Steel Framed Walls. <i>Sustainability</i> , 2021, 13, 3970.	1.6	11
20	On the fire behaviour of modular floors designed with optimised cold-formed steel joists. <i>Structures</i> , 2021, 30, 1071-1085.	1.7	26
21	Shear behaviour of cold-formed stainless-steel beams with web openings: Numerical studies. <i>Structures</i> , 2021, 31, 127-144.	1.7	10
22	Development of affordable steel-framed modular buildings for emergency situations (Covid-19). <i>Structures</i> , 2021, 31, 862-875.	1.7	40
23	Evaluation of fire performance of lightweight concrete wall panels using finite element analysis. <i>Journal of Structural Fire Engineering</i> , 2021, 12, 328-362.	0.4	4
24	Prospects of Developing Prefabricated Masonry Walling Systems in Australia. <i>Buildings</i> , 2021, 11, 294.	1.4	9
25	Fire resistance of 3D printed concrete composite wall panels exposed to various fire scenarios. <i>Journal of Structural Fire Engineering</i> , 2021, 12, 377-409.	0.4	5
26	Finite element analysis of lightweight composite sandwich panels exposed to fire. <i>Journal of Building Engineering</i> , 2021, 40, 102329.	1.6	4
27	Flexural behaviour and design of modular construction optimised beams. <i>Structures</i> , 2021, 32, 1048-1068.	1.7	9
28	Development of cross laminated timber-cold-formed steel composite beam for floor system to sustainable modular building construction. <i>Structures</i> , 2021, 32, 681-690.	1.7	27
29	Energy Performance of 3D-Printed Concrete Walls: A Numerical Study. <i>Buildings</i> , 2021, 11, 432.	1.4	21
30	Shear behaviour and design of doubly symmetric hollow flange beam with web openings. <i>Journal of Constructional Steel Research</i> , 2021, 185, 106836.	1.7	13
31	Web crippling design of modular construction optimised beams under ETF loading. <i>Journal of Building Engineering</i> , 2021, 43, 103072.	1.6	5
32	A-State-Of-The-Art review on modular building connections. <i>Structures</i> , 2021, 34, 1903-1922.	1.7	28
33	Web crippling of slotted perforated Cold-Formed Steel channels under EOF load case: Simulation and design. <i>Journal of Building Engineering</i> , 2021, 44, 103306.	1.6	4
34	Fire performance of innovative 3D printed concrete composite wall panels – A Numerical Study. <i>Case Studies in Construction Materials</i> , 2021, 15, e00586.	0.8	7
35	Sustainable Performance of a Modular Building System Made of Built-Up Cold-Formed Steel Beams. <i>Buildings</i> , 2021, 11, 460.	1.4	20
36	Numerical Simulation and Design Recommendations for Web Crippling Strength of Cold-Formed Steel Channels with Web Holes under Interior-One-Flange Loading at Elevated Temperatures. <i>Buildings</i> , 2021, 11, 666.	1.4	35

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37	Thermal Performance of LSF Wall Systems with Vacuum Insulation Panels. Buildings, 2021, 11, 621.	1.4	7
38	Behaviour of Lightweight Concrete Wall Panel under Axial Loading: Experimental and Numerical Investigation toward Sustainability in Construction Industry. Buildings, 2021, 11, 620.	1.4	0
39	Elevated temperature thermal properties of carbon steels used in cold-formed light gauge steel frame systems. Journal of Building Engineering, 2020, 28, 101074.	1.6	19
40	Experimental and Analytical Study of Masonry Subjected to Uniaxial Cyclic Compression. Materials, 2020, 13, 4505.	1.3	10
41	Optimised cold-formed steel beams in modular building applications. Journal of Building Engineering, 2020, 32, 101607.	1.6	22
42	Local buckling strength and design of cold-formed steel beams with slotted perforations. Thin-Walled Structures, 2020, 156, 106951.	2.7	20
43	Optimal design of cold-formed steel lipped channel beams: Combined bending, shear, and web crippling. Structures, 2020, 28, 825-836.	1.7	19
44	Sustainable and Renewable Bio-Based Natural Fibres and Its Application for 3D Printed Concrete: A Review. Sustainability, 2020, 12, 10485.	1.6	54
45	Experimental study of fire resistant board configurations under standard fire conditions. Fire Safety Journal, 2020, 116, 103153.	1.4	11
46	New distortional buckling design rules for slotted perforated cold-formed steel beams. Journal of Constructional Steel Research, 2020, 168, 106006.	1.7	15
47	Structural behaviour of optimized cold-formed steel beams. Steel Construction, 2020, 13, 294-304.	0.4	25
48	Combined bending and shear behaviour of slotted perforated steel channels: Numerical studies. Journal of Constructional Steel Research, 2019, 161, 369-384.	1.7	20
49	Optimum Design of Cold-formed Steel Beams: Particle Swarm Optimisation and Numerical Analysis. Ce/Papers, 2019, 3, 205-210.	0.1	10
50	Modular Building Design: Post-Brexit Housing. Ce/Papers, 2019, 3, 219-224.	0.1	2
51	Finite Element Analyses of Cold-formed Stainless Steel Beam with Web Openings in Shear. Ce/Papers, 2019, 3, 907-912.	0.1	5
52	Finite Element Analyses of Cold-formed Stainless Steel Beams Subject to Shear. Ce/Papers, 2019, 3, 931-936.	0.1	5
53	Web Crippling Behaviour of Cold-formed Stainless Steel Beams with Non-Circular Web Opening. Ce/Papers, 2019, 3, 937-942.	0.1	5
54	Raman spectroscopic study of the mineral xonotlite $\text{Ca}_6\text{Si}_6\text{O}_{17}(\text{OH})_2$ a component of plaster boards. Materials Research Bulletin, 2012, 47, 3644-3649.	2.7	19