

Vincent JI Gan

List of Publications by Citations

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Version: 2024-04-24

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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.

16
papers

400
citations

10
h-index

16
g-index

16
ext. papers

602
ext. citations

8
avg, IF

4.42
L-index

#	Paper	IF	Citations
16	Developing a CO ₂ -e accounting method for quantification and analysis of embodied carbon in high-rise buildings. <i>Journal of Cleaner Production</i> , 2017 , 141, 825-836	10.3	61
15	Holistic BIM framework for sustainable low carbon design of high-rise buildings. <i>Journal of Cleaner Production</i> , 2018 , 195, 1091-1104	10.3	46
14	A comparative analysis of embodied carbon in high-rise buildings regarding different design parameters. <i>Journal of Cleaner Production</i> , 2017 , 161, 663-675	10.3	45
13	Simulation optimisation towards energy efficient green buildings: Current status and future trends. <i>Journal of Cleaner Production</i> , 2020 , 254, 120012	10.3	41
12	BIM-enabled computerized design and digital fabrication of industrialized buildings: A case study. <i>Journal of Cleaner Production</i> , 2021 , 278, 123505	10.3	39
11	A holistic framework to utilize natural ventilation to optimize energy performance of residential high-rise buildings. <i>Building and Environment</i> , 2019 , 153, 218-232	6.5	36
10	Simulation-based evolutionary optimization for energy-efficient layout plan design of high-rise residential buildings. <i>Journal of Cleaner Production</i> , 2019 , 231, 1375-1388	10.3	29
9	Parametric modelling and evolutionary optimization for cost-optimal and low-carbon design of high-rise reinforced concrete buildings. <i>Advanced Engineering Informatics</i> , 2019 , 42, 100962	7.4	29
8	Reinforced concrete structural design optimization: A critical review. <i>Journal of Cleaner Production</i> , 2020 , 260, 120623	10.3	26
7	Damage mechanism and interfacial transition zone characteristics of concrete under sulfate erosion and Dry-Wet cycles. <i>Construction and Building Materials</i> , 2020 , 255, 119340	6.7	25
6	BIM-based graph data model for automatic generative design of modular buildings. <i>Automation in Construction</i> , 2022 , 134, 104062	9.6	5
5	Experimental studies on the flexural behaviour of steel-concrete composite beams with transverse and longitudinal hidden girders. <i>Engineering Structures</i> , 2019 , 179, 583-594	4.7	5
4	Mechanism of nano-silica to enhance the robustness and durability of concrete in low air pressure for sustainable civil infrastructures. <i>Journal of Cleaner Production</i> , 2021 , 321, 128783	10.3	5
3	Behavior of a Two-Way Lightweight Steel-Concrete Composite Slab Voided with Thin-Walled Core Boxes towards Sustainable Construction. <i>Materials</i> , 2020 , 13,	3.5	4
2	Automated clash-free optimization of steel reinforcement in RC frame structures using building information modeling and two-stage genetic algorithm. <i>Automation in Construction</i> , 2021 , 126, 103676	9.6	4
1	Integrated Data Model and Mapping for Interoperable Information Exchange Between BIM and Energy Simulation Tools. <i>Lecture Notes in Civil Engineering</i> , 2021 , 496-506	0.3	