

# Vincent JI Gan

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

866  
citations

686830

13  
h-index

996533

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Holistic BIM framework for sustainable low carbon design of high-rise buildings. <i>Journal of Cleaner Production</i> , 2018, 195, 1091-1104.	4.6	95
2	BIM-enabled computerized design and digital fabrication of industrialized buildings: A case study. <i>Journal of Cleaner Production</i> , 2021, 278, 123505.	4.6	94
3	Developing a CO <sub>2</sub> -e accounting method for quantification and analysis of embodied carbon in high-rise buildings. <i>Journal of Cleaner Production</i> , 2017, 141, 825-836.	4.6	90
4	Simulation optimisation towards energy efficient green buildings: Current status and future trends. <i>Journal of Cleaner Production</i> , 2020, 254, 120012.	4.6	89
5	A comparative analysis of embodied carbon in high-rise buildings regarding different design parameters. <i>Journal of Cleaner Production</i> , 2017, 161, 663-675.	4.6	85
6	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.	4.0	71
7	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.	3.0	63
8	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.	3.2	62
9	Reinforced concrete structural design optimization: A critical review. <i>Journal of Cleaner Production</i> , 2020, 260, 120623.	4.6	56
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.	4.6	52
11	BIM-based graph data model for automatic generative design of modular buildings. <i>Automation in Construction</i> , 2022, 134, 104062.	4.8	43
12	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.	4.6	29
13	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.	4.8	15
14	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.	2.6	13
15	Behavior of a Two-Way Lightweight Steel-Concrete Composite Slab Voided with Thin-Walled Core Boxes towards Sustainable Construction. <i>Materials</i> , 2020, 13, 4129.	1.3	9
16	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	0