

Ke Chen

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,184
citations

257450

24
h-index

243625

44
g-index

64
all docs

64
docs citations

64
times ranked

1470
citing authors

#	ARTICLE	IF	CITATIONS
1	Barriers to Building Information Modeling (BIM) implementation in China's prefabricated construction: An interpretive structural modeling (ISM) approach. <i>Journal of Cleaner Production</i> , 2019, 219, 949-959.	9.3	231
2	Integrating RFID and BIM technologies for mitigating risks and improving schedule performance of prefabricated house construction. <i>Journal of Cleaner Production</i> , 2017, 165, 1048-1062.	9.3	187
3	Digital twin and its implementations in the civil engineering sector. <i>Automation in Construction</i> , 2021, 130, 103838.	9.8	171
4	Bridging BIM and building: From a literature review to an integrated conceptual framework. <i>International Journal of Project Management</i> , 2015, 33, 1405-1416.	5.6	168
5	Searching for an optimal level of prefabrication in construction: An analytical framework. <i>Journal of Cleaner Production</i> , 2018, 201, 236-245.	9.3	108
6	Ultra-rapid delivery of specialty field hospitals to combat COVID-19: Lessons learned from the Leishenshan Hospital project in Wuhan. <i>Automation in Construction</i> , 2020, 119, 103345.	9.8	100
7	An Internet of Things-enabled BIM platform for modular integrated construction: A case study in Hong Kong. <i>Advanced Engineering Informatics</i> , 2019, 42, 100997.	8.0	99
8	Computational Building Information Modelling for construction waste management: Moving from rhetoric to reality. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 587-595.	16.4	96
9	Smart Construction Objects. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	4.7	95
10	Automatic building information model reconstruction in high-density urban areas: Augmenting multi-source data with architectural knowledge. <i>Automation in Construction</i> , 2018, 93, 22-34.	9.8	60
11	Benefit sharing for BIM implementation: Tackling the moral hazard dilemma in inter-firm cooperation. <i>International Journal of Project Management</i> , 2017, 35, 393-405.	5.6	55
12	Towards the "third wave": An SCO-enabled occupational health and safety management system for construction. <i>Safety Science</i> , 2019, 111, 213-223.	4.9	47
13	A Physical Internet-enabled Building Information Modelling System for prefabricated construction. <i>International Journal of Computer Integrated Manufacturing</i> , 2018, 31, 349-361.	4.6	45
14	Automatic Generation of Semantically Rich As-Built Building Information Models Using 2D Images: A Derivative-Free Optimization Approach. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2018, 33, 926-942.	9.8	45
15	An SCO-Enabled Logistics and Supply Chain Management System in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	3.8	43
16	Construction-Oriented Design for Manufacture and Assembly Guidelines. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	3.8	43
17	Linking radio-frequency identification to Building Information Modeling: Status quo, development trajectory and guidelines for practitioners. <i>Automation in Construction</i> , 2018, 93, 241-251.	9.8	37
18	Design for Manufacture and Assembly Oriented Design Approach to a Curtain Wall System: A Case Study of a Commercial Building in Wuhan, China. <i>Sustainability</i> , 2018, 10, 2211.	3.2	36

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19	The Interplay Between Formal and Informal Institutions in Projects. <i>Project Management Journal</i> , 2018, 49, 20-35.	4.3	36
20	Estimation of construction waste generation based on an improved on-site measurement and SVM-based prediction model: A case of commercial buildings in China. <i>Waste Management</i> , 2021, 126, 791-799.	7.4	36
21	“Cognitive facility management”: Definition, system architecture, and example scenario. <i>Automation in Construction</i> , 2019, 107, 102922.	9.8	35
22	Design for manufacture and assembly (DfMA) in construction: the old and the new. <i>Architectural Engineering and Design Management</i> , 2021, 17, 77-91.	1.7	35
23	BIM reconstruction from 3D point clouds: A semantic registration approach based on multimodal optimization and architectural design knowledge. <i>Advanced Engineering Informatics</i> , 2019, 42, 100965.	8.0	34
24	Knowledge, Attitudes, and Practices Toward COVID-19 Among Construction Industry Practitioners in China. <i>Frontiers in Public Health</i> , 2020, 8, 599769.	2.7	28
25	Bridging BIM and building (BBB) for information management in construction. <i>Engineering, Construction and Architectural Management</i> , 2019, 26, 1518-1532.	3.1	26
26	From Semantic Segmentation to Semantic Registration: Derivative-Free Optimization-Based Approach for Automatic Generation of Semantically Rich As-Built Building Information Models from 3D Point Clouds. <i>Journal of Computing in Civil Engineering</i> , 2019, 33, .	4.7	25
27	University-industry collaboration for BIM education: Lessons learned from a case study. <i>Industry and Higher Education</i> , 2020, 34, 401-409.	2.2	22
28	Bibliometric Analysis of Construction Education Research from 1982 to 2017. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2019, 145, .	0.9	20
29	Time-dependent resilience analysis of a road network in an extreme environment. <i>Transportation Research, Part D: Transport and Environment</i> , 2020, 85, 102395.	6.8	20
30	The technology-environment relationship revisited: Evidence from the impact of prefabrication on reducing construction waste. <i>Journal of Cleaner Production</i> , 2022, 341, 130883.	9.3	20
31	The renaissance of augmented reality in construction: history, present status and future directions. <i>Smart and Sustainable Built Environment</i> , 2020, ahead-of-print, .	4.0	19
32	A derivative-free optimization-based approach for detecting architectural symmetries from 3D point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 148, 32-40.	11.1	18
33	Naming Objects in BIM: A Convention and a Semiautomatic Approach. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	3.8	14
34	Underpass clearance checking in highway widening projects using digital twins. <i>Automation in Construction</i> , 2022, 141, 104406.	9.8	14
35	Parametric modeling for detailed typesetting and deviation correction in shield tunneling construction. <i>Automation in Construction</i> , 2022, 134, 104052.	9.8	13
36	Cross-boundary collaboration in waste management research: A network analysis. <i>Environmental Impact Assessment Review</i> , 2018, 73, 128-141.	9.2	11

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37	Pervasive sensing technologies for facility management: a critical review. <i>Facilities</i> , 2019, 38, 161-180.	1.6	9
38	Measuring building information modeling maturity: a Hong Kong case study. <i>International Journal of Construction Management</i> , 2021, 21, 299-311.	3.2	8
39	A Smart Construction Object (SCO)-Enabled Proactive Data Management System for Construction Equipment Management. , 2017, , .		7
40	Risk-informed knowledge-based design for road infrastructure in an extreme environment. <i>Knowledge-Based Systems</i> , 2021, 216, 106741.	7.1	7
41	Incomplete privatization of public rental housing in Hong Kong. <i>Land Use Policy</i> , 2017, 67, 537-545.	5.6	6
42	RFID and BIM-Enabled Prefabricated Component Management System in Prefabricated Housing Production. , 2018, , .		6
43	Conceptual Framework for the Service-Oriented Management of Construction Labor Resource. <i>EMJ - Engineering Management Journal</i> , 2022, 34, 543-558.	2.3	6
44	Smart Gateway for Bridging BIM and Building. , 2018, , 1307-1316.		4
45	Developing an Open Access BIM Objects Library: A Hong Kong Study. , 0, , .		4
46	Bridging the Cyber and Physical Systems for Better Construction: A Case Study of Construction Machinery Monitoring and Utilization. , 2018, , 393-399.		3
47	The Fusion of GIS and Building Information Modeling for Big Data Analytics in Managing Development Sites. , 2018, , 345-359.		3
48	Architectural Symmetry Detection from 3D Urban Point Clouds: A Derivative-Free Optimization (DFO) Approach. , 2019, , 513-519.		3
49	BIG DATA IN CONSTRUCTION WASTE MANAGEMENT: PROSPECTS AND CHALLENGES. <i>Detritus</i> , 2018, In Press, 1.	0.9	3
50	Enhancing construction safety management through edge computing: framework and scenarios. <i>Journal of Information Technology in Construction</i> , 2020, 25, 438-451.	2.1	3
51	An Optimization-Based Semantic Building Model Generation Method with a Pilot Case of a Demolished Construction. , 2018, , 231-241.		2
52	Semantic Enrichment for Rooftop Modeling using Aerial LiDAR Reflectance. , 2019, , .		2
53	Landscape expansion-place quality nexus revisited: How fundamental and transitory growth impact in China?. <i>Land Use Policy</i> , 2021, 103, 105294.	5.6	2
54	Development of 3D Building Models Using Multi-Source Data: A Study of High-Density Urban Area in Hong Kong. , 0, , .		2

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55	Transforming Data into Decision Making: A Spotlight Review of Construction Digital Twin. , 2021, , .		2
56	Causal Loop Analysis on the Impact of Schedule Risks in Prefabrication Housing Production in Hong Kong. , 2018, , 425-434.		1
57	Implementation of Design for Manufacture and Assembly (DfMA) Principles in Construction: A Case Study. , 2020, , .		1
58	How Do Different Professionals Communicate in Construction Projects? A Social Network Analysis Perspective. , 2021, , 1005-1017.		0
59	3D Point Cloud Data Enabled Facility Management: A Critical Review. , 2021, , 641-657.		0
60	Development of Tailored Engineering Software by Architecture, Engineering, and Construction Companies: Benefits versus Risks. , 2020, , .		0