

# Ke Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9056985/publications.pdf>

Version: 2024-02-01

60  
papers

2,184  
citations

257101

24  
h-index

243296

44  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conceptual Framework for the Service-Oriented Management of Construction Labor Resource. EMJ - Engineering Management Journal, 2022, 34, 543-558.	1.4	6
2	Parametric modeling for detailed typesetting and deviation correction in shield tunneling construction. Automation in Construction, 2022, 134, 104052.	4.8	13
3	The technology-environment relationship revisited: Evidence from the impact of prefabrication on reducing construction waste. Journal of Cleaner Production, 2022, 341, 130883.	4.6	20
4	Underpass clearance checking in highway widening projects using digital twins. Automation in Construction, 2022, 141, 104406.	4.8	14
5	Measuring building information modeling maturity: a Hong Kong case study. International Journal of Construction Management, 2021, 21, 299-311.	2.2	8
6	How Do Different Professionals Communicate in Construction Projects? A Social Network Analysis Perspective. , 2021, , 1005-1017.		0
7	3D Point Cloud Data Enabled Facility Management: A Critical Review. , 2021, , 641-657.		0
8	Risk-informed knowledge-based design for road infrastructure in an extreme environment. Knowledge-Based Systems, 2021, 216, 106741.	4.0	7
9	Landscape expansion-place quality nexus revisited: How fundamental and transitory growth impact in China?. Land Use Policy, 2021, 103, 105294.	2.5	2
10	Estimation of construction waste generation based on an improved on-site measurement and SVM-based prediction model: A case of commercial buildings in China. Waste Management, 2021, 126, 791-799.	3.7	36
11	Digital twin and its implementations in the civil engineering sector. Automation in Construction, 2021, 130, 103838.	4.8	171
12	Design for manufacture and assembly (DfMA) in construction: the old and the new. Architectural Engineering and Design Management, 2021, 17, 77-91.	1.2	35
13	Transforming Data into Decision Making: A Spotlight Review of Construction Digital Twin. , 2021, , .		2
14	Implementation of Design for Manufacture and Assembly (DfMA) Principles in Construction: A Case Study. , 2020, , .		1
15	The renaissance of augmented reality in construction: history, present status and future directions. Smart and Sustainable Built Environment, 2020, ahead-of-print, .	2.2	19
16	Time-dependent resilience analysis of a road network in an extreme environment. Transportation Research, Part D: Transport and Environment, 2020, 85, 102395.	3.2	20
17	University“industry collaboration for BIM education: Lessons learned from a case study. Industry and Higher Education, 2020, 34, 401-409.	1.4	22
18	Ultra-rapid delivery of specialty field hospitals to combat COVID-19: Lessons learned from the Leishenshan Hospital project in Wuhan. Automation in Construction, 2020, 119, 103345.	4.8	100

#	ARTICLE	IF	CITATIONS
19	Knowledge, Attitudes, and Practices Toward COVID-19 Among Construction Industry Practitioners in China. <i>Frontiers in Public Health</i> , 2020, 8, 599769.	1.3	28
20	Construction-Oriented Design for Manufacture and Assembly Guidelines. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	2.0	43
21	Enhancing construction safety management through edge computing: framework and scenarios. <i>Journal of Information Technology in Construction</i> , 2020, 25, 438-451.	1.4	3
22	Development of Tailored Engineering Software by Architecture, Engineering, and Construction Companies: Benefits versus Risks. , 2020, , .		0
23	Towards the "third wave" An SCO-enabled occupational health and safety management system for construction. <i>Safety Science</i> , 2019, 111, 213-223.	2.6	47
24	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.	4.0	34
25	"Cognitive facility management"™: Definition, system architecture, and example scenario. <i>Automation in Construction</i> , 2019, 107, 102922.	4.8	35
26	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.	4.0	99
27	Bridging BIM and building (BBB) for information management in construction. <i>Engineering, Construction and Architectural Management</i> , 2019, 26, 1518-1532.	1.8	26
28	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, .	2.5	25
29	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
30	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.	4.6	231
31	Pervasive sensing technologies for facility management: a critical review. <i>Facilities</i> , 2019, 38, 161-180.	0.8	9
32	Semantic Enrichment for Rooftop Modeling using Aerial LiDAR Reflectance. , 2019, , .		2
33	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.	4.9	18
34	Architectural Symmetry Detection from 3D Urban Point Clouds: A Derivative-Free Optimization (DFO) Approach. , 2019, , 513-519.		3
35	Smart Gateway for Bridging BIM and Building. , 2018, , 1307-1316.		4
36	An Optimization-Based Semantic Building Model Generation Method with a Pilot Case of a Demolished Construction. , 2018, , 231-241.		2

#	ARTICLE	IF	CITATIONS
37	Bridging the Cyber and Physical Systems for Better Construction: A Case Study of Construction Machinery Monitoring and Utilization. , 2018, , 393-399.		3
38	Causal Loop Analysis on the Impact of Schedule Risks in Prefabrication Housing Production in Hong Kong. , 2018, , 425-434.		1
39	RFID and BIM-Enabled Prefabricated Component Management System in Prefabricated Housing Production. , 2018, , .		6
40	A Physical Internet-enabled Building Information Modelling System for prefabricated construction. International Journal of Computer Integrated Manufacturing, 2018, 31, 349-361.	2.9	45
41	Cross-boundary collaboration in waste management research: A network analysis. Environmental Impact Assessment Review, 2018, 73, 128-141.	4.4	11
42	Automatic Generation of Semantically Rich As-Built Building Information Models Using 2D Images: A Derivative-Free Optimization Approach. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 926-942.	6.3	45
43	Linking radio-frequency identification to Building Information Modeling: Status quo, development trajectory and guidelines for practitioners. Automation in Construction, 2018, 93, 241-251.	4.8	37
44	The Fusion of GIS and Building Information Modeling for Big Data Analytics in Managing Development Sites. , 2018, , 345-359.		3
45	Searching for an optimal level of prefabrication in construction: An analytical framework. Journal of Cleaner Production, 2018, 201, 236-245.	4.6	108
46	Design for Manufacture and Assembly Oriented Design Approach to a Curtain Wall System: A Case Study of a Commercial Building in Wuhan, China. Sustainability, 2018, 10, 2211.	1.6	36
47	The Interplay Between Formal and Informal Institutions in Projects. Project Management Journal, 2018, 49, 20-35.	2.6	36
48	Automatic building information model reconstruction in high-density urban areas: Augmenting multi-source data with architectural knowledge. Automation in Construction, 2018, 93, 22-34.	4.8	60
49	BIG DATA IN CONSTRUCTION WASTE MANAGEMENT: PROSPECTS AND CHALLENGES. Detritus, 2018, In Press, 1.	0.4	3
50	Benefit sharing for BIM implementation: Tackling the moral hazard dilemma in inter-firm cooperation. International Journal of Project Management, 2017, 35, 393-405.	2.7	55
51	Naming Objects in BIM: A Convention and a Semiautomatic Approach. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	14
52	A Smart Construction Object (SCO)-Enabled Proactive Data Management System for Construction Equipment Management. , 2017, , .		7
53	Incomplete privatization of public rental housing in Hong Kong. Land Use Policy, 2017, 67, 537-545.	2.5	6
54	Integrating RFID and BIM technologies for mitigating risks and improving schedule performance of prefabricated house construction. Journal of Cleaner Production, 2017, 165, 1048-1062.	4.6	187

#	ARTICLE	IF	CITATIONS
55	Computational Building Information Modelling for construction waste management: Moving from rhetoric to reality. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 587-595.	8.2	96
56	An SCO-Enabled Logistics and Supply Chain Management System in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	2.0	43
57	Smart Construction Objects. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	2.5	95
58	Bridging BIM and building: From a literature review to an integrated conceptual framework. <i>International Journal of Project Management</i> , 2015, 33, 1405-1416.	2.7	168
59	Development of 3D Building Models Using Multi-Source Data: A Study of High-Density Urban Area in Hong Kong. , 0, , .		2
60	Developing an Open Access BIM Objects Library: A Hong Kong Study. , 0, , .		4