

# Cheng Zhang

## List of Publications by Citations

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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.

38  
papers

389  
citations

9  
h-index

19  
g-index

47  
ext. papers

489  
ext. citations

4  
avg, IF

4.06  
L-index

#	Paper	IF	Citations
38	A BIM based tool for assessing embodied energy for buildings. <i>Energy and Buildings</i> , <b>2018</b> , 170, 1-14	7	62
37	Improving lifting motion planning and re-planning of cranes with consideration for safety and efficiency. <i>Advanced Engineering Informatics</i> , <b>2012</b> , 26, 396-410	7.4	57
36	Crane Pose Estimation Using UWB Real-Time Location System. <i>Journal of Computing in Civil Engineering</i> , <b>2012</b> , 26, 625-637	5	54
35	Multiagent Approach for Real-Time Collision Avoidance and Path Replanning for Cranes. <i>Journal of Computing in Civil Engineering</i> , <b>2012</b> , 26, 782-794	5	36
34	Cell-based representation and analysis of spatial resources in construction simulation. <i>Automation in Construction</i> , <b>2007</b> , 16, 436-448	9.6	28
33	Mobile Model-Based Bridge Lifecycle Management System. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2006</b> , 21, 530-547	8.4	27
32	A satisfaction-range approach for achieving thermal comfort level in a shared office. <i>Building and Environment</i> , <b>2018</b> , 142, 312-326	6.5	14
31	BIM-based investigation of total energy consumption in delivering building products. <i>Advanced Engineering Informatics</i> , <b>2018</b> , 38, 370-380	7.4	13
30	<b>2011</b> ,		12
29	Resource Management of Bridge Deck Rehabilitation: Jacques Cartier Bridge Case Study. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2008</b> , 134, 311-319	4.2	9
28	Equipment workspace analysis in infrastructure projects. <i>Canadian Journal of Civil Engineering</i> , <b>2007</b> , 34, 1247-1256	1.3	8
27	Investigating Occupancy-Driven Air-Conditioning Control Based on Thermal Comfort Level. <i>Journal of Architectural Engineering</i> , <b>2018</b> , 24, 04018003	1.5	7
26	Selecting Optimal Combination of Data Channels for Semantic Segmentation in City Information Modelling (CIM). <i>Remote Sensing</i> , <b>2021</b> , 13, 1367	5	7
25	Automatic generation of Dynamic Virtual Fences as part of BIM-based prevention program for construction safety <b>2012</b> ,		5
24	Towards the smart construction site: Improving productivity and safety of construction projects using multi-agent systems, real-time simulation and automated machine control <b>2012</b> ,		5
23	Representation and analysis of spatial resources in construction simulation		5
22	Lifecycle evaluation of building sustainability using BIM and RTLS <b>2014</b> ,		4

21	Path Re-Planning of Cranes Using Real-Time Location System <b>2009</b> ,		4
20	Agent-based simulation for collaborative cranes <b>2007</b> ,		3
19	Investigating spatial impact on indoor personal thermal comfort. <i>Journal of Building Engineering</i> , <b>2022</b> , 45, 103536	5.2	3
18	Collaborative Agent-Based System for Multiple Crane Operation <b>2007</b> ,		3
17	Water pipe failure prediction using AutoML. <i>Facilities</i> , <b>2021</b> , 39, 36-49	2.2	3
16	Comparative Study On The Ethical Perceptions Of Contractors And Designers In The China Construction Industry. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 291, 012024	0.4	2
15	As-Built BIM Updating Based on Image Processing and Artificial Intelligence <b>2019</b> ,		2
14	Technical feasibility analysis on applying ultra-wide band technology in construction progress monitoring. <i>International Journal of Construction Management</i> , <b>2020</b> , 1-15	1.9	2
13	Implementation of CIM-related technologies within transportation projects. <i>International Journal of Construction Management</i> , <b>2020</b> , 20, 510-519	1.9	2
12	Structural design of concrete to EC2 and GB50010-2010: a comparison. <i>MATEC Web of Conferences</i> , <b>2018</b> , 175, 01039	0.3	2
11	Semantic segmentation of terrestrial laser scanning point clouds using locally enhanced image-based geometric representations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 1-1	8.1	2
10	Sensitivity Analysis of Construction Simulation using Cell-Devs and Microcyclone <b>2006</b> ,		1
9	Towards Supporting Construction Equipment Operation Using Collaborative Agent-Based Systems <b>2007</b> ,		1
8	Case Studies of Using BIM for Infrastructure in Utility Tunnel Projects in Jiangsu, China <b>2020</b> ,		1
7	Enhancing Sustainability of Rail Transit System by Applying Multi-Agent System <b>2019</b> ,		1
6	Multiagent SystemBased Near-Real-Time Trajectory and Microscopic Timetable Optimization for Rail Transit Network. <i>Journal of Transportation Engineering Part A: Systems</i> , <b>2021</b> , 147, 04020153	1.5	1
5	Monitoring road base course construction progress by photogrammetry-based 3D reconstruction. <i>International Journal of Construction Management</i> , 1-15	1.9	1
4	The Ontology-Based Approach Supporting Holistic Energy-Tunnel Design considering Cost, Heat Flux, and System Feasibility. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-13	1.5	

- 3 Near real-time timetabling for metro system energy optimization considering passenger flow and random delays. *Journal of Rail Transport Planning and Management*, **2022**, 21, 100292 2.1
- 2 Real-time Railway Transit Management Based on Multi-Agent System (MAS). *Journal of Physics: Conference Series*, **2021**, 1828, 012045 0.3
- 1 Semantic Segmentation of Multispectral Images via Linear Compression of Bands: An Experiment Using RIT-18. *Remote Sensing*, **2022**, 14, 2673 5