Heap-Yih Chong

List of Publications by Year
in descending order

118 papers	3,370 citations	136885 32 h-index	168321 53 g-index
119 all docs	119 docs citations	119 times ranked	2336 citing authors

#	ARTICLE	IF	CITATIONS
1	A mixed review of the adoption of Building Information Modelling (BIM) for sustainability. Journal of Cleaner Production, 2017, 142, 4114-4126.	4.6	257
2	Adoption of Building Information Modelling technology (BIM). Engineering, Construction and Architectural Management, 2015, 22, 424-445.	1.8	163
3	Integrated Supplier Selection Framework in a Resilient Construction Supply Chain: An Approach via Analytic Hierarchy Process (AHP) and Grey Relational Analysis (GRA). Sustainability, 2017, 9, 289.	1.6	118
4	Sustainability perceptions of off-site manufacturing stakeholders in Australia. Journal of Cleaner Production, 2019, 227, 346-354.	4.6	114
5	Comparative Analysis on the Adoption and Use of BIM in Road Infrastructure Projects. Journal of Management in Engineering - ASCE, 2016, 32, .	2.6	106
6	Integrating BIM and LiDAR for Real-Time Construction Quality Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 417-432.	2.0	105
7	A Comparative Review of Building Information Modelling Implementation in Building and Infrastructure Industries. Archives of Computational Methods in Engineering, 2015, 22, 291-308.	6.0	103
8	A comprehensive analysis of the credits obtained by LEED 2009 certified green buildings. Renewable and Sustainable Energy Reviews, 2017, 68, 370-379.	8.2	103
9	Critical Review of Social Network Analysis Applications in Complex Project Management. Journal of Management in Engineering - ASCE, 2018, 34, .	2.6	92
10	Building information modeling-based integration of MEP layout designs and constructability. Automation in Construction, 2016, 61, 134-146.	4.8	85
11	A cross-sector review on the use of value stream mapping. International Journal of Production Research, 2017, 55, 3906-3928.	4.9	80
12	Accidents in Malaysian Construction Industry: Statistical Data and Court Cases. International Journal of Occupational Safety and Ergonomics, 2014, 20, 503-513.	1.1	74
13	An explanatory case study on cloud computing applications in the built environment. Automation in Construction, 2014, 44, 152-162.	4.8	69
14	Integrating advanced technologies to uphold security of payment: Data flow diagram. Automation in Construction, 2020, 114, 103158.	4.8	69
15	Revisiting triple bottom line within the context of sustainable construction: A systematic review. Journal of Cleaner Production, 2020, 252, 119884.	4.6	65
16	Ocean renewable energy in Malaysia: The potential of the Straits of Malacca. Renewable and Sustainable Energy Reviews, 2013, 23, 169-178.	8.2	57
17	Preliminary Contractual Framework for BIM-Enabled Projects. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	56
18	Understanding Stakeholders in Off-Site Manufacturing: A Literature Review. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	56

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19	Selection of dispute resolution methods: factor analysis approach. Engineering, Construction and Architectural Management, 2012, 19, 428-443.	1.8	51
20	Collaborative information integration for construction safety monitoring. Automation in Construction, 2019, 102, 120-134.	4.8	51
21	Setting new trends of integrated Building Information Modelling (BIM) for construction industry. Construction Innovation, 2015, 15, 2-6.	1.5	49
22	An Innovative Framework of 5D BIM Solutions for Construction Cost Management: A Systematic Review. Archives of Computational Methods in Engineering, 2020, 27, 1013-1030.	6.0	45
23	Design for disassembly, deconstruction and resilience: A circular economy index for the built environment. Resources, Conservation and Recycling, 2021, 175, 105847.	5.3	44
24	Examining the Interrelationship among Critical Success Factors of Public Private Partnership Infrastructure Projects. Sustainability, 2016, 8, 1313.	1.6	42
25	Exploring eye-tracking searching strategies for construction hazard recognition in a laboratory scene. Safety Science, 2019, 120, 824-832.	2.6	42
26	Causes of delays in the construction phase of Chinese building projects. Engineering, Construction and Architectural Management, 2018, 25, 1534-1551.	1.8	41
27	Building information modeling in construction conflict management. International Journal of Engineering Business Management, 2017, 9, 184797901774625.	2.1	40
28	A hybrid group decision model for green supplier selection: a case study of megaprojects. Engineering, Construction and Architectural Management, 2019, 26, 1712-1734.	1.8	40
29	A case study into the language structure of construction standard form in Malaysia. International Journal of Project Management, 2010, 28, 601-608.	2.7	38
30	A Bibliometric Review on Risk Management and Building Information Modeling for International Construction. Advances in Civil Engineering, 2018, 2018, 1-13.	0.4	38
31	Circular Economy and Virtual Reality in Advanced BIM-Based Prefabricated Construction. Energies, 2021, 14, 4065.	1.6	35
32	Blockchain in the AECO industry: Current status, key topics, and future research agenda. Automation in Construction, 2022, 134, 104101.	4.8	35
33	A CRITICAL REVIEW OF LEGAL ISSUES AND SOLUTIONS ASSOCIATED WITH BUILDING INFORMATION MODELLING. Technological and Economic Development of Economy, 2018, 24, 2098-2130.	2.3	34
34	Nexus of Interorganizational Trust, Principled Negotiation, and Joint Action for Improved Cost Performance: Survey of Chinese Megaprojects. Journal of Management in Engineering - ASCE, 2018, 34, .	2.6	33
35	The outlook of building information modeling for sustainable development. Clean Technologies and Environmental Policy, 2016, 18, 1877-1887.	2.1	32
36	Relationship between BIM Implementation and Performance of OSM Projects. Journal of Management in Engineering - ASCE, 2019, 35, .	2.6	32

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37	A comparative review and framework development on public participation for decision-making in Chinese public projects. Environmental Impact Assessment Review, 2019, 75, 79-87.	4.4	32
38	Site selection for tidal turbine installation in the Strait of Malacca. Renewable and Sustainable Energy Reviews, 2013, 21, 590-602.	8.2	28
39	Latent Provisions for Building Information Modeling (BIM) Contracts: A Social Network Analysis Approach. KSCE Journal of Civil Engineering, 2019, 23, 1427-1435.	0.9	28
40	A systematic review and meta-analysis of building automation systems. Building and Environment, 2021, 195, 107770.	3.0	28
41	Modelling the blockchain adoption barriers in the AEC industry. Engineering, Construction and Architectural Management, 2023, 30, 125-153.	1.8	28
42	A multi-criteria analysis for bridge sustainability assessment: a case study of Penang Second Bridge, Malaysia. Structure and Infrastructure Engineering, 2015, 11, 638-654.	2.0	27
43	Empirical Analysis of Firms' Willingness to Participate in Infrastructure PPP Projects. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	27
44	Joint Contract–Function Effects on BIM-Enabled EPC Project Performance. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	27
45	Construction contract administration in Malaysia using DFD: a conceptual model. Industrial Management and Data Systems, 2011, 111, 1449-1464.	2.2	25
46	Enhancing BIM Performance in EPC Projects through Integrative Trust-Based Functional Contracting Model. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	25
47	Technical Review: Analysis and Appraisal of Four-Dimensional Building Information Modeling Usability in Construction and Engineering Projects. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	23
48	Greening existing buildings through Building Information Modelling: A review of the recent development. Building and Environment, 2021, 200, 107924.	3.0	23
49	Environmental sustainability of off-site manufacturing: a literature review. Engineering, Construction and Architectural Management, 2021, 28, 332-350.	1.8	22
50	A Research Framework of Mitigating Construction Accidents in High-Rise Building Projects via Integrating Building Information Modeling with Emerging Digital Technologies. Applied Sciences (Switzerland), 2021, 11, 8359.	1.3	22
51	Interactions between building information modelling and off-site manufacturing for productivity improvement. International Journal of Managing Projects in Business, 2019, 13, 233-255.	1.3	21
52	Streamlining Digital Modeling and Building Information Modelling (BIM) Uses for the Oil and Gas Projects. Archives of Computational Methods in Engineering, 2018, 25, 349-396.	6.0	18
53	Employing Data Warehousing for Contract Administration: e-Dispute Resolution Prototype. Journal of Construction Engineering and Management - ASCE, 2013, 139, 611-619.	2.0	17
54	Identifying Effective Management Factors Across Human Errors – A Case in Elevator Installation. KSCE Journal of Civil Engineering, 2018, 22, 3204-3214.	0.9	16

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55	Interactive mechanism of working environments and construction behaviors with cognitive work analysis: an elevator installation case study. International Journal of Occupational Safety and Ergonomics, 2019, 25, 362-376.	1.1	16
56	Influence of Prior Ties on Trust and Contract Functions for BIM-Enabled EPC Megaproject Performance. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	16
57	Relationship between safety measures and human error in the construction industry: working at heights. International Journal of Occupational Safety and Ergonomics, 2020, , 1-12.	1.1	15
58	Government subsidy strategy for public-private-partnership retrofit buildings in China. Energy and Buildings, 2021, 252, 111455.	3.1	15
59	Improving Quality and Performance of Facility Management Using Building Information Modelling. Lecture Notes in Computer Science, 2014, , 44-50.	1.0	15
60	Probabilistic-Based Cascading Failure Approach to Assessing Workplace Hazards Affecting Human Error. Journal of Management in Engineering - ASCE, 2019, 35, .	2.6	14
61	The Influence of Social Capitalism on Construction Safety Behaviors: An Exploratory Megaproject Case Study. Sustainability, 2018, 10, 3098.	1.6	13
62	A Cross-Systematic Review of Addressing Risks in Building Information Modelling-Enabled International Construction Projects. Archives of Computational Methods in Engineering, 2019, 26, 899-931.	6.0	13
63	Integration Model of Fuzzy AHP and Life-Cycle Cost Analysis for Evaluating Highway Infrastructure Investments. Journal of Infrastructure Systems, 2019, 25, .	1.0	13
64	The effects of shared vision on value co-creation in megaprojects: A multigroup analysis between clients and main contractors. International Journal of Project Management, 2022, 40, 218-234.	2.7	13
65	A Review of Smart Contracts Applications in Various Industries: A Procurement Perspective. Advances in Civil Engineering, 2021, 2021, 1-25.	0.4	12
66	A Cooperative System of GIS and BIM for Traffic Planning: A High-Rise Building Case Study. Lecture Notes in Computer Science, 2014, , 143-150.	1.0	11
67	Improving the sustainable retirement village framework: From theory to practice. Journal of Cleaner Production, 2020, 248, 119290.	4.6	11
68	Identification of critical risks in international engineering procurement construction projects of Chinese contractors from the network perspective. Canadian Journal of Civil Engineering, 2020, 47, 1359-1371.	0.7	11
69	Mapping BIM Uses for Risk Mitigation in International Construction Projects. Advances in Civil Engineering, 2020, 2020, 1-13.	0.4	11
70	Planning and coordination of modular construction. Automation in Construction, 2022, 141, 104455.	4.8	11
71	Financing Decision Model for Toll Roads: Balancing Economic and Public Attributes. Journal of Management in Engineering - ASCE, 2017, 33, .	2.6	10
72	A Coordinated Approach for Supply-Chain Tracking in the Liquefied Natural Gas Industry. Sustainability, 2018, 10, 4822.	1.6	10

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73	Development of a time-variant causal model of human error in construction with dynamic Bayesian network. Engineering, Construction and Architectural Management, 2021, 28, 291-307.	1.8	10
74	Contractual practices between the consultant and employer in Chinese BIM-enabled construction projects. Engineering, Construction and Architectural Management, 2019, 27, 227-244.	1.8	10
75	Impact of Contractual Flexibility on BIM-Enabled PPP Project Performance during the Construction Phase. Journal of Infrastructure Systems, 2022, 28, .	1.0	10
76	Integrated frameworks of construction procurement systems for off-site manufacturing projects: social network analysis. International Journal of Construction Management, 2022, 22, 2089-2097.	2.2	9
77	Pathways for the Improvement of Construction Productivity: A Perspective on the Adoption of Advanced Techniques. Advances in Civil Engineering, 2020, 2020, 1-17.	0.4	9
78	Building information modelling (BIM) penetration in quantity surveying (QS) practice. Built Environment Project and Asset Management, 2021, 11, 888-902.	0.9	9
79	Interconnections: An Analysis of Disassemblable Building Connection Systems towards a Circular Economy. Buildings, 2021, 11, 535.	1.4	9
80	Effects of Contractual and Relational Governances on BIM Collaboration and Implementation for Project Performance Improvement. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	9
81	Incorporation of database approach into contractual issues: Methodology and practical guide for organizations. Automation in Construction, 2013, 31, 149-157.	4.8	8
82	CONCESSION MODEL FOR FAIR DISTRIBUTION OF BENEFITS AND RISKS IN BUILD-OPERATE-TRANSFER ROAD PROJECTS. Journal of Civil Engineering and Management, 2019, 25, 265-275.	1.9	8
83	The behaviour of dispute resolution methods in Malaysian construction industry. , 2009, , .		7
84	A practical approach in clarifying legal drafting: Delphi and case study in Malaysia. Engineering, Construction and Architectural Management, 2016, 23, 610-621.	1.8	7
85	Fairness preference based decision-making model for concession period in PPP projects. Journal of Industrial and Management Optimization, 2020, 16, 11-23.	0.8	7
86	A System Dynamics Model of Prevention through Design towards Eliminating Human Error. KSCE Journal of Civil Engineering, 2019, 23, 1923-1938.	0.9	6
87	Normative Visual Patterns for Hazard Recognition: A Crisp-Set Qualitative Comparative Analysis Approach. KSCE Journal of Civil Engineering, 2021, 25, 1545-1554.	0.9	6
88	BIM's Formal and Informal Collaborative Networks in Traditional Procurement: Insights from the Construction Phase of a Hospital Case Study. Journal of Management in Engineering - ASCE, 2021, 37, 05021008.	2.6	6
89	ÂGuidelines of Using Project Management Tools and Techniques to Mitigate Factors Causing Delays in Public Construction Projects in Kingdom of Saudi Arabia. Journal of Engineering, Project, and Production Management, 2016, 6, 90-103.	0.5	6
90	The effective mediating role of stakeholder management in the relationship between BIM implementation and project performance. Engineering, Construction and Architectural Management, 2023, 30, 2503-2522.	1.8	6

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91	Cost-based scheduling method using object-oriented approach. Automation in Construction, 2016, 65, 65-77.	4.8	5
92	Robust Optimization for Integrated Construction Scheduling and Multiscale Resource Allocation. Complexity, 2018, 2018, 1-17.	0.9	5
93	Risk-Based Metanetwork Modeling for Sustainable Project Performance in International Construction. Journal of Infrastructure Systems, 2021, 27, 04021020.	1.0	5
94	Agent-based modelling of helping behaviour diffusion in project teams as an evolutionary process. Journal of Simulation, 2023, 17, 279-296.	1.0	5
95	Cost implications for certified Green Building Index buildings. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2017, 170, 29-40.	0.9	4
96	CASE STUDY ON SUBCONTRACTING ARRANGEMENTS IN THE SCAFFOLDING SUPPLY CHAIN OF A LIQUEFIED NATURAL GAS INFRASTRUCTURE PROJECT. Journal of Civil Engineering and Management, 2017, 23, 1136-1147.	1.9	4
97	BIM-Enabled Design Collaboration for Complex Building. Lecture Notes in Computer Science, 2014, , 238-244.	1.0	4
98	Managing Critical Factors Causing Delays in Public Construction Projects in Kingdom of Saudi Arabia. , 2015, , .		4
99	Exploring construction workers' brain connectivity during hazard recognition: a cognitive psychology perspective. International Journal of Occupational Safety and Ergonomics, 2023, 29, 207-215.	1.1	4
100	Supply Chain Management in Megaprojects. Journal of Management in Engineering - ASCE, 2017, 33, 02017001.	2.6	3
101	Efficiency improvement by navigated safety inspection involving visual clutter based on the random search model. International Journal of Occupational Safety and Ergonomics, 2020, 26, 740-752.	1.1	3
102	Real-time safety inspection and planning: A first application of the Fagan nomogram. Canadian Journal of Civil Engineering, 2020, 47, 438-449.	0.7	3
103	Revisiting U.K. Delay and Disruption Protocol: Distinguished Features for Contract Drafting. Journal of Management in Engineering - ASCE, 2015, 31, 06014004.	2.6	2
104	A Review of Employer-Caused Delay Factors in Traditional and Building Information Modeling (BIM)-Enabled Projects: Research Framework. Advances in Civil Engineering, 2021, 2021, 1-24.	0.4	2
105	Application of the Delphi into Construction Law Research. International Journal of Interdisciplinary Social Sciences, 2010, 5, 199-206.	0.1	2
106	Effect between Trust in Communication Technology and Interorganizational Trust in BIM-Enabled Projects. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	2
107	Call for Papers -. International Journal of Project Management, 2015, 33, 479-480.	2.7	1
108	A conceptual framework for Social Network Analysis of Building Information Modelling in construction projects. , 2017, , .		1

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109	The roles of project stakeholders in EPCM BIM-enabled projects. , 2017, , .		1
110	The Potential Cost Implications and Benefits from Building Information Modeling (BIM) in Malaysian Construction Industry. , 2018, , 1439-1454.		1
111	Logistic regression modeling of implementation of corporate safety policy in international infrastructures. Engineering, Construction and Architectural Management, 2020, 27, 3031-3050.	1.8	1
112	Incorporation of hazard rectification performance for safety assessment. International Journal of Occupational Safety and Ergonomics, 2021, , 1-14.	1.1	1
113	A Novel Approach Based on Fluid Dynamics for On-Site Safety Assessment. KSCE Journal of Civil Engineering, 2021, 25, 1533-1544.	0.9	1
114	Effects of critical success factors, BIM implementation strategies, and barriers on employer-initiated delays. International Journal of Construction Management, 0, , 1-16.	2.2	1
115	The Challenges and Trends of Building Information Modelling (BIM) for Construction and Resources Sectors. , 2014, , .		0
116	A Process Model of Information Sharing and Knowledge Integration for Project Performance. , 2019, , 663-678.		0
117	Making sense of safety in systemic and cultural contexts. , 2019, , 179-190.		0
118	Distinctive Judicial-Tailored Causation References of Construction Accidents. KSCE Journal of Civil Engineering, 0, , .	0.9	0