Investigating waste reduction potential in the upstream prefabrication construction

Renewable and Sustainable Energy Reviews

28, 804-811

DOI: 10.1016/j.rser.2013.08.048

Citation Report

#	Article	IF	CITATIONS
1	Critical review of the research on the management of prefabricated construction. Habitat International, 2014, 43, 240-249.	5.8	361
2	Critical factors in effective construction waste minimization at the design stage: A Shenzhen case study, China. Resources, Conservation and Recycling, 2014, 82, 1-7.	10.8	160
3	Measuring the impact of prefabrication on construction waste reduction: An empirical study in China. Resources, Conservation and Recycling, 2014, 91, 27-39.	10.8	154
4	Waste minimisation through deconstruction: A BIM based Deconstructability Assessment Score (BIM-DAS). Resources, Conservation and Recycling, 2015, 105, 167-176.	10.8	163
5	Benchmarking construction waste management performance using big data. Resources, Conservation and Recycling, 2015, 105, 49-58.	10.8	114
6	Towards Physical Internet-enabled Prefabricated Housing Construction in Hong Kong. IFAC-PapersOnLine, 2015, 48, 1079-1086.	0.9	26
7	Analysis of critical features and evaluation of BIM software: towards a plug-in for construction waste minimization using big data. International Journal of Sustainable Building Technology and Urban Development, 2015, 6, 211-228.	1.0	54
8	Identifying best design strategies for construction waste minimization. Journal of Cleaner Production, 2015, 92, 237-247.	9.3	125
9	Waste effectiveness of the construction industry: Understanding the impediments and requisites for improvements. Resources, Conservation and Recycling, 2015, 102, 101-112.	10.8	158
10	Predicting Contractor's Behavior Toward Construction and Demolition Waste Management. , 2015, , 869-875.		1
11	Encouraging the environmentally sound management of C&D waste in China: An integrative review and research agenda. Renewable and Sustainable Energy Reviews, 2015, 43, 611-620.	16.4	124
12	Contribution of City Prosperity to Decisions on Healthy Building Design: A case study of Tehran. Frontiers of Architectural Research, 2016, 5, 319-331.	2.8	14
13	The curvilinear relationship between corporate social performance and corporate financial performance: Evidence from the international construction industry. Journal of Cleaner Production, 2016, 137, 1313-1322.	9.3	73
14	A comparative analysis of waste management requirements between five green building rating systems for new residential buildings. Journal of Cleaner Production, 2016, 112, 895-902.	9.3	108
15	Life-cycle energy analysis of prefabricated building components: an input–output-based hybrid model. Journal of Cleaner Production, 2016, 112, 2198-2207.	9.3	206
16	Reducing waste to landfill: A need for cultural change in the UK construction industry. Journal of Building Engineering, 2016, 5, 185-193.	3.4	106
17	Benefits, challenges and critical factors of success for Zero Waste: A systematic literature review. Waste Management, 2017, 67, 324-353.	7.4	126
18	Schedule risk modeling in prefabrication housing production. Journal of Cleaner Production, 2017, 153, 692-706.	9.3	66

#	Article	IF	CITATIONS
19	Critical management practices influencing on-site waste minimization in construction projects. Waste Management, 2017, 59, 330-339.	7.4	118
20	Life cycle assessment (LCA) of building refurbishment: A literature review. Energy and Buildings, 2017, 135, 286-301.	6.7	287
21	A Resilience Engineering Approach for Sustainable Safety in Green Construction. Journal of Sustainable Development of Energy, Water and Environment Systems, 2017, 5, 480-495.	1.9	16
22	The Index System for the Development Level Evaluation of Regional Construction Industrialization: A Case Study in Jiangsu, China. Applied Sciences (Switzerland), 2017, 7, 492.	2.5	12
23	Evaluation of City Prosperity Index in Iranian-Islamic Cities: A Case Study of Ahvaz Metropolis. Chinese Journal of Urban and Environmental Studies, 2017, 05, 1750025.	1.3	2
24	A model for simulating schedule risks in prefabrication housing production: A case study of six-day cycle assembly activities in Hong Kong. Journal of Cleaner Production, 2018, 185, 366-381.	9.3	69
25	The paradoxical nexus between corporate social responsibility and sustainable financial performance: Evidence from the international construction business. Corporate Social Responsibility and Environmental Management, 2018, 25, 844-852.	8.7	67
26	Experimental and numerical studies on design for deconstruction concrete connections: An overview. Advances in Structural Engineering, 2018, 21, 2198-2214.	2.4	19
27	Life cycle impact comparison of different concrete floor slabs considering uncertainty and sensitivity analysis. Journal of Cleaner Production, 2018, 189, 374-385.	9.3	41
28	System dynamics simulation on municipal solid waste in Hong Kong. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 2018, 171, 185-195.	0.7	3
29	Safety in green building construction projects in Singapore: Performance, critical issues, and improvement solutions. KSCE Journal of Civil Engineering, 2018, 22, 447-458.	1.9	40
30	Barriers to promoting prefabricated construction in China: A cost–benefit analysis. Journal of Cleaner Production, 2018, 172, 649-660.	9.3	320
31	A Physical Internet-enabled Building Information Modelling System for prefabricated construction. International Journal of Computer Integrated Manufacturing, 2018, 31, 349-361.	4.6	45
32	Salvaging building materials in a circular economy: A BIM-based whole-life performance estimator. Resources, Conservation and Recycling, 2018, 129, 175-186.	10.8	232
33	Achieving Flexible Assembly Using Autonomous Robotic Systems. , 2018, , .		2
35	A Framework of Industrialized Building Assessment in China Based on the Structural Equation Model. International Journal of Environmental Research and Public Health, 2018, 15, 1687.	2.6	14
36	Multi-Stakeholder Risk Analysis for Construction Industry Industrialization: A Review. , 2018, , .		0
37	Searching for an optimal level of prefabrication in construction: An analytical framework. Journal of Cleaner Production, 2018, 201, 236-245.	9.3	108

# 38	ARTICLE Safety Performance and Improvement of Green Construction Projects. , 2018, , 149-164.	IF	CITATIONS
40	Sustainable performance of just-in-time (JIT) management in time-dependent batch delivery scheduling of precast construction. Journal of Cleaner Production, 2018, 193, 684-701.	9.3	68
41	The hindrance to using prefabrication in Hong Kong's building industry. Journal of Cleaner Production, 2018, 204, 70-81.	9.3	90
42	Design for manufacture and assembly: its benefits and risks in the UK water industry. Proceedings of Institution of Civil Engineers: Management, Procurement and Law, 2018, 171, 152-163.	0.5	8
43	Critical Success Factors for Project Planning and Control in Prefabrication Housing Production: A China Study. Sustainability, 2018, 10, 836.	3.2	42
44	System Dynamics versus Agent-Based Modeling: A Review of Complexity Simulation in Construction Waste Management. Sustainability, 2018, 10, 2484.	3.2	74
45	A holistic review of off-site construction literature published between 2008 and 2018. Journal of Cleaner Production, 2018, 202, 1202-1219.	9.3	238
46	Impact of prefabrication technology on the cradle-to-site CO2 emissions of residential buildings. Clean Technologies and Environmental Policy, 2019, 21, 1499-1514.	4.1	61
47	Risks in Prefabricated Buildings in China: Importance-Performance Analysis Approach. Sustainability, 2019, 11, 3450.	3.2	46
48	Determinants of Adoption of Robotics in Precast Concrete Production for Buildings. Journal of Management in Engineering - ASCE, 2019, 35, .	4.8	63
49	Sustainable Design and Manufacturing 2019. Smart Innovation, Systems and Technologies, 2019, , .	0.6	7
50	Procurement innovation for a circular economy of construction and demolition waste: Lessons learnt from Suzhou, China. Waste Management, 2019, 99, 12-21.	7.4	143
51	Sustainable Construction Technology Adoption. , 2019, , 299-316.		7
52	Modeling Constraints for the On-Site Assembly Process of Prefabrication Housing Production: A Social Network Analysis. Sustainability, 2019, 11, 1387.	3.2	16
53	Direct and indirect impact assessment in off-site construction—A case study in China. Sustainable Cities and Society, 2019, 48, 101520.	10.4	42
54	Barriers to Building Information Modeling (BIM) implementation in China's prefabricated construction: An interpretive structural modeling (ISM) approach. Journal of Cleaner Production, 2019, 219, 949-959.	9.3	231
55	Genetic algorithm for determining the construction logistics of precast components. Engineering, Construction and Architectural Management, 2019, 26, 2289-2306.	3.1	41
56	Environmental sustainability of off-site manufacturing: a literature review. Engineering, Construction and Architectural Management, 2021, 28, 332-350.	3.1	22

#	Article	IF	CITATIONS
57	Identification of Construction Waste Generated at Precast Concrete Plants: Case study. IOP Conference Series: Materials Science and Engineering, 2019, 601, 012036.	0.6	3
58	Stakeholder-Associated Supply Chain Risks and Their Interactions in a Prefabricated Building Project in Hong Kong. Journal of Management in Engineering - ASCE, 2019, 35, .	4.8	125
59	Optimal transportation planning for prefabricated products in construction. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 342-353.	9.8	28
60	Prefabrication policies and the performance of construction industry in China. Journal of Cleaner Production, 2020, 253, 120042.	9.3	64
61	Environmental performance of off-site constructed facilities: A critical review. Energy and Buildings, 2020, 207, 109567.	6.7	49
62	Constraints Hindering the Development of High-Rise Modular Buildings. Applied Sciences (Switzerland), 2020, 10, 7159.	2.5	47
63	Importance-Performance Analysis of Prefabricated Building Sustainability: A Case Study of Guangzhou. Advances in Civil Engineering, 2020, 2020, 1-17.	0.7	18
64	BIM competencies for delivering waste-efficient building projects in a circular economy. Developments in the Built Environment, 2020, 4, 100036.	4.0	25
65	Sustainable Ship Loading Planning for Prefabricated Products in the Construction Industry. Sustainability, 2020, 12, 8905.	3.2	6
66	Advanced lightweight steel floor towards high sound insulation and fire resistance. Journal of Constructional Steel Research, 2020, 169, 106023.	3.9	2
67	The moderating effect of client types on the relationship between green construction practices and health and safety performance. International Journal of Sustainable Development and World Ecology, 2020, 27, 732-748.	5.9	11
68	Influence diagrams for off-site construction manufacturing risk assessment in China. Proceedings of Institution of Civil Engineers: Management, Procurement and Law, 2020, , 1-18.	0.5	1
69	Factors affecting prefabricated construction promotion in China: A structural equation modeling approach. PLoS ONE, 2020, 15, e0227787.	2.5	27
70	Study on the Carbon Emissions in the Whole Construction Process of Prefabricated Floor Slab. Applied Sciences (Switzerland), 2020, 10, 2326.	2.5	26
71	Construction and demolition waste management contributing factors coupled with reduce, reuse, and recycle strategies for effective waste management: A review. Journal of Cleaner Production, 2020, 263, 121265.	9.3	254
72	Quantifying construction waste reduction through the application of prefabrication: a case study in Anhui, China. Environmental Science and Pollution Research, 2021, 28, 24499-24510.	5.3	37
73	Waste Reduction in Precast Construction. Management in the Built Environment, 2021, , .	0.2	1
74	An agent-based model approach for urban demolition waste quantification and a management framework for stakeholders. Journal of Cleaner Production, 2021, 285, 124897.	9.3	24

#	Article	IF	CITATIONS
75	A four-quadrant conceptual framework for analyzing extended producer responsibility in offshore prefabrication construction. Journal of Cleaner Production, 2021, 282, 124540.	9.3	30
76	Review of thermal and environmental performance of prefabricated buildings: Implications to emission reductions in China. Renewable and Sustainable Energy Reviews, 2021, 137, 110472.	16.4	55
77	Critical factors for successful implementation of just-in-time concept in modular integrated construction: A systematic review and meta-analysis. Journal of Cleaner Production, 2021, 284, 124716.	9.3	53
78	Offsite construction in the Australian low-rise residential buildings application levels and procurement options. Engineering, Construction and Architectural Management, 2022, 29, 110-140.	3.1	14
79	A Review and Scientometric Analysis of Global Research on Prefabricated Buildings. Advances in Civil Engineering, 2021, 2021, 1-18.	0.7	13
80	A system dynamic model for simulating the potential of prefabrication on construction waste reduction. Environmental Science and Pollution Research, 2022, 29, 12589-12600.	5.3	25
81	Analysis of Factors Affecting the Quality of Precast Components Based on Structural Equation Modeling. Arabian Journal for Science and Engineering, 2022, 47, 4171-4185.	3.0	7
82	Revisiting the effects of prefabrication on construction waste minimization: A quantitative study using bigger data. Resources, Conservation and Recycling, 2021, 170, 105579.	10.8	43
83	Identification and Prioritization of Critical Success Factors for Off-Site Construction Using ISM and MICMAC Analysis. Sustainability, 2021, 13, 8911.	3.2	10
84	Multi-objective optimization of high performance bio-inspired prefabricated composites for sustainable and resilient construction. Composite Structures, 2022, 279, 114732.	5.8	35
86	A Framework of Developing a Big Data Platform for Construction Waste Management: A Hong Kong Study. , 2017, , 1069-1076.		4
87	An Empirical Investigation of Construction and Demolition Waste Management in China's Pearl River Delta. , 2018, , 197-212.		4
88	The application of web of data technologies in building materials information modelling for construction waste analytics. Sustainable Materials and Technologies, 2017, 11, 28-37.	3.3	13
89	An IDM-Based Approach for Information Requirement in Prefabricated Construction. Advances in Civil Engineering, 2020, 2020, 1-21.	0.7	4
90	Estimation of Environmental Damages of Cement Building and Environmental Benefits of Prefabricated Building: A Case Study Based on a Residential Project in Henan Province, China. Nature Environment and Pollution Technology, 2020, 19, 721-728.	0.4	6
91	Modular Construction: Design Considerations and Opportunities. , 2021, , 1351-1361.		1
92	PREFABRICATED HOUSING SUBSIDY ANALYSIS IN CHINA BASED ON AN EVOLUTIONARY GAME MODEL. Journal of Civil Engineering and Management, 2021, 27, 553-570.	3.5	12
93	Pesos relativos entre indicadores de sustentabilidade e custos de construção de estruturas pré-fabricadas em plantas industriais. Conjeturas, 2021, 21, 302-327.	0.0	0

#	Article	IF	CITATIONS
94	Investigating the Level of Sustainability in Off-Site Construction. Smart Innovation, Systems and Technologies, 2019, , 101-110.	0.6	0
95	An Analysis on Promoting Prefabrication Implementation in Construction Industry towards Sustainability. International Journal of Environmental Research and Public Health, 2021, 18, 11493.	2.6	14
96	Benefit Evaluation Model of Prefabricated Buildings in Seasonally Frozen Regions. Energies, 2021, 14, 7119.	3.1	3
97	Contributions of the circular economy to the UN sustainable development goals through sustainable construction. Resources, Conservation and Recycling, 2022, 178, 106023.	10.8	101
98	Vision-based automated waste audits: a use case from the window manufacturing industry. International Journal of Advanced Manufacturing Technology, 2022, 119, 7735-7749.	3.0	5
99	The Air Quality Impact Evaluation of Modular Construction Practices in Hong Kong and Singapore. Sustainability, 2022, 14, 1016.	3.2	1
100	A quantitative and qualitative evaluation of the sustainability of industrialised building systems: A bibliographic review and analysis of case studies. Renewable and Sustainable Energy Reviews, 2022, 157, 112034.	16.4	13
101	The technology-environment relationship revisited: Evidence from the impact of prefabrication on reducing construction waste. Journal of Cleaner Production, 2022, 341, 130883.	9.3	20
102	The Monetary and Non-Monetary Impacts of Prefabrication on Construction: The Effects of Product Modularity. Buildings, 2022, 12, 459.	3.1	4
103	How to promote the sustainable development of prefabricated residential buildings in China: A tripartite evolutionary game analysis. Journal of Cleaner Production, 2022, 349, 131423.	9.3	52
104	Approaches and Policies to Promote Zero-Waste City Construction: China's Practices and Lessons. Sustainability, 2021, 13, 13537.	3.2	15
105	Construction, renovation, and demolition waste in landfill: a review of waste characteristics, environmental impacts, and mitigation measures. Environmental Science and Pollution Research, 2022, 29, 46509-46526.	5.3	18
106	Quantification of the deconstruction potential of buildings with innovative connections using BIM based DAS (Deconstructability Assessment Score) tool. Materials Today: Proceedings, 2022, 65, 1964-1975.	1.8	1
107	A category and index hybrid (CIH) approach to measuring the level of prefabrication. International Journal of Construction Management, 0, , 1-12.	3.2	1
108	Methodology to estimate logistics costs for vertically transported prefabricated wall panels. Journal of Computational Design and Engineering, 2022, 9, 1348-1368.	3.1	2
109	BIM-enabled life cycle assessment of concrete formwork waste reduction through prefabrication. Sustainable Energy Technologies and Assessments, 2022, 53, 102449.	2.7	14
110	Ensuring the economic and environmental efficiency in managing the flows of construction and demolition waste by using tools of economic and mathematical modeling. Eastern-European Journal of Enterprise Technologies, 2022, 3, 6-13.	0.5	0
111	Understanding Sustainability in Off-Site Construction Management: State of the Art and Future Directions. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	3.8	17

#	Article	IF	CITATIONS
112	Automated compatibility checking of prefabricated components using 3D as-built models and BIM. Automation in Construction, 2022, 143, 104566.	9.8	5
113	Prefabrication in Hong Kong's High-Rise Residential Construction: Evolution and Effect on Waste Minimization. , 2022, , 308-323.		0
114	Experts' Perceptions of the Management and Minimisation of Waste in the Australian Construction Industry. Sustainability, 2022, 14, 11319.	3.2	7
115	Design for manufacture and assembly (DfMA) in architectural design meetings: from a case study to knowledge-to-action framework. Smart and Sustainable Built Environment, 2023, 12, 1117-1134.	4.0	4
116	Flexural Performance of Prestressed Composite Recycled Aggregate Slabs with Steel Tube Trusses. KSCE Journal of Civil Engineering, 2022, 26, 5253-5263.	1.9	1
117	Exploring the Knowledge Domain of Risk Management in Prefabricated Construction. Buildings, 2022, 12, 1784.	3.1	3
118	Optimized multimodal logistics planning of modular integrated construction using hybrid multi-agent and metamodeling. Automation in Construction, 2023, 145, 104637.	9.8	7
119	Retrofit of Building Façade Using Precast Sandwich Panel: An Integrated Thermal and Environmental Assessment on BIM-Based LCA. Buildings, 2022, 12, 2098.	3.1	7
120	An Integrated Approach of Simulation and Regression Analysis for Assessing Productivity in Modular Integrated Construction Projects. Buildings, 2022, 12, 2018.	3.1	7
121	Optimal procurement strategy for off-site prefabricated components considering construction schedule and cost. Automation in Construction, 2023, 147, 104726.	9.8	3
122	Environmental Sustainability of Off-Site Construction in Developed and Developing Regions: A Systematic Review. Journal of Architectural Engineering, 2023, 29, .	1.6	4
123	The impact of innovative technologies in construction activities on concrete debris recycling in China: a system dynamics-based analysis. Environment, Development and Sustainability, 0, , .	5.0	1
124	Quantitative methodology of environmental impact and economic assessment under equivalent conditions for prefabricated systems. Journal of Building Engineering, 2023, 76, 107104.	3.4	1
125	The interrelationship between barriers impeding the adoption of off-site construction in developing countries: The case of Chile. Journal of Building Engineering, 2023, 73, 106824.	3.4	2
126	Blockchain-enabled cyber-physical system for construction site management: A pilot implementation. Advanced Engineering Informatics, 2023, 57, 102102.	8.0	3
127	Modeling stakeholder-associated productivity performance risks in modular integrated construction projects of Hong Kong: A social network analysis. Journal of Cleaner Production, 2023, 423, 138699.	9.3	1
128	Application of expert system to processing the problems of precast concrete that appear during stage production and transportation. AIP Conference Proceedings, 2023, , .	0.4	0
129	Design for Manufacturing and Assembly (DfMA) of Standardized Modular Wood Components. Technology Architecture and Design, 2023, 7, 282-292.	0.2	0

#	Article	IF	CITATIONS
130	Industrialized Construction and Sustainability: A Comprehensive Literature Review. Buildings, 2023, 13, 2861.	3.1	0
131	Data-driven integration framework for four-dimensional building information modeling simulation in modular construction: a case study approach. Journal of Computational Design and Engineering, 2023, 10, 2288-2311.	3.1	1
132	Optimal Tri-level Government–Manufacturers– Contractors Subsidy Plan: Maximizing Local Prefabricated Product Usage and Minimizing Transport Emissions. IEEE Transactions on Engineering Management, 2024, 71, 3530-3553.	3.5	0
133	Unraveling the Knowledge Roadmap of Building Policy Mixes: A Scientometric Analysis. Sustainability, 2024, 16, 428.	3.2	0
134	A bibliometric review of zero waste in the built environment using VOSviewer: evolution, hotspots, and prospects. Frontiers in Environmental Science, 0, 11, .	3.3	0
135	Comparative environmental life cycle assessment of partition walls: Innovative prefabricated systems vs conventional construction. Cleaner Environmental Systems, 2024, 12, 100179.	4.2	0
136	Gerenciamento de resÃduos da construção civil com foco no resÃduo de concreto pré-fabricado (RCPF): uma revisão sis-temática de literatura. Revista Caderno Pedagógico, 2024, 21, e3206.	0.0	0