

# Ron Wakefield

## 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.

54 papers	1,088 citations	17 h-index	32 g-index
65 ext. papers	1,410 ext. citations	4.4 avg, IF	4.71 L-index

#	Paper	IF	Citations
54	Drivers, constraints and the future of offsite manufacture in Australia. <i>Construction Innovation</i> , <b>2009</b> , 9, 72-83	4.1	181
53	Public and private blockchain in construction business process and information integration. <i>Automation in Construction</i> , <b>2020</b> , 118, 103276	9.6	94
52	Optimization of process integration and multi-skilled resource utilization in off-site construction. <i>Automation in Construction</i> , <b>2015</b> , 50, 72-80	9.6	64
51	Analysis of interacting uncertainties in on-site and off-site activities: Implications for hybrid construction. <i>International Journal of Project Management</i> , <b>2016</b> , 34, 1393-1402	7.6	58
50	Optimization modeling of multi-skilled resources in prefabrication: Theorizing cost analysis of process integration in off-site construction. <i>Automation in Construction</i> , <b>2018</b> , 95, 1-9	9.6	55
49	Off-site construction optimization: Sequencing multiple job classes with time constraints. <i>Automation in Construction</i> , <b>2016</b> , 71, 262-270	9.6	54
48	Design and development of distributed solar PV systems: Do the current tools work?. <i>Sustainable Cities and Society</i> , <b>2019</b> , 45, 553-578	10.1	50
47	Autonomous production tracking for augmenting output in off-site construction. <i>Automation in Construction</i> , <b>2015</b> , 53, 13-21	9.6	39
46	The development and testing of a hierarchical measure of project OHS performance. <i>Engineering, Construction and Architectural Management</i> , <b>2011</b> , 18, 30-49	3.1	36
45	Analysis of Seismic Failure in Skew RC Bridge. <i>Journal of Structural Engineering</i> , <b>1991</b> , 117, 972-986	3	36
44	Exploring the link between early constructor involvement in project decision-making and the efficacy of health and safety risk control. <i>Construction Management and Economics</i> , <b>2014</b> , 32, 918-931	3	34
43	Optimal process integration architectures in off-site construction: Theorizing the use of multi-skilled resources. <i>Architectural Engineering and Design Management</i> , <b>2018</b> , 14, 46-59	1.2	31
42	Analysis of Disruptions Caused by Construction Field Rework on Productivity in Residential Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2014</b> , 140, 04013053	4.2	28
41	Concrete prefabricated housing via advances in systems technologies. <i>Engineering, Construction and Architectural Management</i> , <b>2010</b> , 17, 99-110	3.1	25
40	The effect of early supplier engagement on social sustainability outcomes in project-based supply chains. <i>Journal of Purchasing and Supply Management</i> , <b>2015</b> , 21, 285-295	5.7	23
39	Petri Nets for Simulation and Modeling of Construction Systems. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>1997</b> , 123, 105-112	4.2	21
38	Large scale nonholonomic elastoplastic analysis using a linear complementarity formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1990</b> , 84, 229-242	5.7	19

37	The relationship between pre-construction decision-making and the effectiveness of risk control. <i>Engineering, Construction and Architectural Management</i> , <b>2015</b> , 22, 108-124	3.1	17
36	Solving the shortest route cut and fill problem using simulated annealing. <i>European Journal of Operational Research</i> , <b>2003</b> , 145, 72-84	5.6	16
35	A new approach for modelling variability in residential construction projects. <i>Construction Economics and Building</i> , <b>2013</b> , 13, 83-92	0.9	15
34	Effect of seasonal changes on usage patterns and behaviours in educational precinct in Melbourne. <i>Urban Climate</i> , <b>2018</b> , 26, 133-148	6.8	15
33	Framework for improving workflow stability: deployment of optimized capacity buffers in a synchronized construction production. <i>Canadian Journal of Civil Engineering</i> , <b>2014</b> , 41, 995-1004	1.3	14
32	Prevention through design. <i>Built Environment Project and Asset Management</i> , <b>2013</b> , 3, 7-23	1.9	13
31	Work-Health and Safety-Risk Perceptions of Construction-Industry Stakeholders Using Photograph-Based Q Methodology. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 04014093	4.2	12
30	Quantitative Analysis of Rate-Driven and Due Date-Driven Construction: Production Efficiency, Supervision, and Controllability in Residential Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2016</b> , 142, 05015012	4.2	12
29	An investigation of property-related decision practice of Australian fund managers. <i>Journal of Property Investment and Finance</i> , <b>2014</b> , 32, 282-305	1.1	12
28	Are we on the same page? Exploring construction professionals' mental models of occupational health and safety. <i>Construction Management and Economics</i> , <b>2015</b> , 33, 73-84	3	12
27	An assessment of pictographic instructions derived from a virtual prototype to support construction assembly procedures. <i>Automation in Construction</i> , <b>2016</b> , 64, 36-53	9.6	10
26	Factors that influence Australian community buildings' sustainable management. <i>Engineering, Construction and Architectural Management</i> , <b>2017</b> , 24, 94-117	3.1	9
25	The client's role in promoting work health and safety in construction projects: balancing contracts and relationships to effect change. <i>Construction Management and Economics</i> , <b>2020</b> , 38, 993-1008	3	8
24	Markov Process for Deterioration Modeling and Asset Management of Community Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2017</b> , 143, 04017003	4.2	7
23	Mathematical programming and uniqueness in nonholonomic plasticity. <i>Computers and Structures</i> , <b>1990</b> , 34, 477-483	4.5	6
22	AN ALTERNATIVE APPROACH FOR MODELING OF INTERFERENCE IN DISCRETE-EVENT SYSTEMS. <i>Civil Engineering and Environmental Systems</i> , <b>2000</b> , 17, 213-235	2.1	5
21	Limit Analysis of Grids under Combined Bending and Torsion. <i>Mechanics Based Design of Structures and Machines</i> , <b>1990</b> , 18, 159-173		5
20	PRIORITISING SUSTAINABILITY FACTORS FOR AUSTRALIAN COMMUNITY BUILDINGS' MANAGEMENT USING ANALYTICAL HIERARCHY PROCESS (AHP). <i>International Journal of Strategic Property Management</i> , <b>2018</b> , 24, 37-50	1.9	5

19	2019,		5
18	Staging option application to residential development: real options approach. <i>International Journal of Housing Markets and Analysis</i> , <b>2018</b> , 11, 101-116	1.2	5
17	Condition Monitoring and Condition Aggregation for Optimised Decision Making in Management of Buildings. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 438-439, 1719-1725	0.3	4
16	APPLICATION OF EXTENDED STOCHASTIC PETRI NETS TO SIMULATION AND MODELLING OF CONSTRUCTION SYSTEMS. <i>Civil Engineering and Environmental Systems</i> , <b>1998</b> , 15, 1-22	2.1	4
15	Economic viability of building integrated photovoltaics: A review of forty-five (45) non-domestic buildings in twelve (12) western countries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 137, 110622	16.2	4
14	International benchmarking for performance improvement in construction safety and health. <i>Benchmarking</i> , <b>2016</b> , 23, 916-936	4	3
13	A voluntary approach to designing for safer construction. <i>Proceedings of Institution of Civil Engineers: Management, Procurement and Law</i> , <b>2013</b> , 166, 249-259	0.5	3
12	System archetypes underlying the problematic behaviour of construction activity in Kenya. <i>Construction Management and Economics</i> , <b>2011</b> , 29, 3-13	3	3
11	Multi-objective optimisation for building integrated photovoltaics (BIPV) roof projects in early design phase. <i>Applied Energy</i> , <b>2022</b> , 309, 118476	10.7	3
10	Chinese investors investment strategies in the Australian residential property market. <i>Pacific Rim Property Research Journal</i> , <b>2017</b> , 23, 227-247	0.5	2
9	Device-Free Detection to Improve Construction Work Health and Safety <b>2014</b> ,		2
8	Designing a game for occupational health and safety in the construction industry <b>2012</b> ,		2
7	Large displacement elastoplastic analysis of frames using an iterative LCP approach. <i>International Journal of Mechanical Sciences</i> , <b>1991</b> , 33, 379-391	5.5	2
6	Role of Simulation in Construction Processes [Harmony in Capturing Resources <b>2012</b> ,		2
5	Decision-making model for sustainable management of Australian community buildings: combined approach using analytical hierarchy process and neuro-fuzzy system. <i>International Journal of Construction Management</i> , 1-12	1.9	1
4	A multi-objective optimization framework for building-integrated PV envelope design balancing energy and cost. <i>Journal of Cleaner Production</i> , <b>2022</b> , 342, 130930	10.3	0
3	Design for Construction Utilizing a Virtual Environment <b>2000</b> , 23		
2	Shakedown of Grids under Combined Bending and Torsion. <i>Journal of Structural Engineering</i> , <b>1989</b> , 115, 2930-2943		3

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A simulation model for investigation of operation of elevator during up-peak. *Journal of Simulation*, **2020**, 14, 229-238

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