

# Robert H Crawford

## List of Publications by Year in Descending Order

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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.

72  
papers

3,004  
citations

30  
h-index

54  
g-index

75  
ext. papers

3,448<sup>8</sup>  
ext. citations

6.3  
avg, IF

5.97  
L-index

#	Paper	IF	Citations
72	Greenhouse Gas Emissions of Global Construction Industries. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2022</b> , 1218, 012047	0.4	
71	Hybrid life cycle assessment at the neighbourhood scale: The case of Ydalir, Norway. <i>Cleaner Engineering and Technology</i> , <b>2022</b> , 8, 100503	2.7	1
70	The EPiC database: Hybrid embodied environmental flow coefficients for construction materials. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 180, 106058	11.9	2
69	Valuing the environmental performance of historic buildings. <i>Australasian Journal of Environmental Management</i> , <b>2021</b> , 28, 59-71	2	1
68	Greenhouse gas emissions associated with food packaging for online food delivery services in Australia. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 168, 105299	11.9	7
67	Design for Dematerialisation: examining an approach for reducing the life cycle energy requirements of residential buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 588, 032049	0.3	
66	The influence of structural design methods on the embodied greenhouse gas emissions of structural systems for tall buildings. <i>Structures</i> , <b>2020</b> , 24, 650-665	3.4	13
65	Integrating life-cycle GHG emissions into a building's economic evaluation. <i>Buildings and Cities</i> , <b>2020</b> , 1, 361-378	3.3	5
64	Quantifying Australia's life cycle greenhouse gas emissions for new homes. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110287	7	9
63	The impact of value engineering on embodied greenhouse gas emissions in the built environment: A hybrid life cycle assessment. <i>Building and Environment</i> , <b>2020</b> , 168, 106452	6.5	18
62	Assessing Embodied Greenhouse Gas Emissions in the Built Environment <b>2019</b> , 119-141		1
61	A model for streamlining and automating path exchange hybrid life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , <b>2019</b> , 24, 237-252	4.6	24
60	A framework for the integrated optimisation of the life cycle greenhouse gas emissions and cost of buildings. <i>Energy and Buildings</i> , <b>2018</b> , 171, 155-167	7	24
59	Embodied Carbon in Buildings: An Australian Perspective <b>2018</b> , 393-416		2
58	The Australian industrial ecology virtual laboratory and multi-scale assessment of buildings and construction. <i>Energy and Buildings</i> , <b>2018</b> , 164, 14-20	7	14
57	Comparing a territorial-based and a consumption-based approach to assess the local and global environmental performance of cities. <i>Journal of Cleaner Production</i> , <b>2018</b> , 173, 112-123	10.3	37
56	Net incremental indirect external benefit of manufacturing recycled aggregate concrete. <i>Waste Management</i> , <b>2018</b> , 78, 279-291	8.6	13

55	Hybrid life cycle inventory methods IIA review. <i>Journal of Cleaner Production</i> , <b>2018</b> , 172, 1273-1288	10.3	149
54	Integrated assessment of the use of recycled concrete aggregate replacing natural aggregate in structural concrete. <i>Journal of Cleaner Production</i> , <b>2018</b> , 174, 591-604	10.3	59
53	Plug n Play: Future Prefab for Smart Green Schools. <i>Buildings</i> , <b>2018</b> , 8, 88	3.2	7
52	Comparative assessment of embodied energy of recycled aggregate concrete. <i>Journal of Cleaner Production</i> , <b>2017</b> , 152, 406-419	10.3	39
51	A Framework for Assessing the Environmental Benefits of Mass Timber Construction. <i>Procedia Engineering</i> , <b>2017</b> , 196, 838-846		12
50	Improving the Life Cycle Energy Performance of Apartment Units through Façade Design. <i>Procedia Engineering</i> , <b>2017</b> , 196, 1003-1010		6
49	The Carbon Footprint of Australia's Construction Sector. <i>Procedia Engineering</i> , <b>2017</b> , 180, 211-220		49
48	Identifying policy solutions for improving the energy efficiency of rental properties. <i>Energy Policy</i> , <b>2017</b> , 108, 369-378	7.2	19
47	Towards an Integrated Approach for Evaluating both the Life Cycle Environmental and Financial Performance of a Building: A Review. <i>Procedia Engineering</i> , <b>2017</b> , 180, 118-127		5
46	Towards an Automated Approach for Compiling Hybrid Life Cycle Inventories. <i>Procedia Engineering</i> , <b>2017</b> , 180, 157-166		22
45	Methodology for the integrated assessment on the use of recycled concrete aggregate replacing natural aggregate in structural concrete. <i>Journal of Cleaner Production</i> , <b>2017</b> , 166, 321-334	10.3	39
44	Improving the Uptake of Hybrid Life Cycle Assessment in the Construction Industry. <i>Procedia Engineering</i> , <b>2017</b> , 196, 822-829		9
43	Barriers to Improving the Environmental Performance of Construction Waste Management in Remote Communities. <i>Procedia Engineering</i> , <b>2017</b> , 196, 830-837		26
42	Developing an Integrated Framework for Assessing the Life Cycle Greenhouse Gas Emissions and Life Cycle Cost of Buildings. <i>Procedia Engineering</i> , <b>2017</b> , 196, 988-995		7
41	Towards a Dynamic Approach to Urban Metabolism: Tracing the Temporal Evolution of Brussels's Urban Metabolism from 1970 to 2010. <i>Journal of Industrial Ecology</i> , <b>2017</b> , 21, 307-319	7.2	15
40	Total water requirements of passenger transport modes. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2016</b> , 49, 94-109	6.4	7
39	The relationship between house size and life cycle energy demand: Implications for energy efficiency regulations for buildings. <i>Energy</i> , <b>2016</b> , 116, 1158-1171	7.9	48
38	Evaluating the life cycle energy benefits of energy efficiency regulations for buildings. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 63, 435-451	16.2	68

37	Directionally selective shading control in maritime sub-tropical and temperate climates: Life cycle energy implications for office buildings. <i>Building and Environment</i> , <b>2016</b> , 104, 275-285	6.5	9
36	The economic value of low-energy housing. <i>Pacific Rim Property Research Journal</i> , <b>2016</b> , 22, 45-58	0.5	5
35	Building service life and its effect on the life cycle embodied energy of buildings. <i>Energy</i> , <b>2015</b> , 79, 140-148	115	
34	Post-occupancy life cycle energy assessment of a residential building in Australia. <i>Architectural Science Review</i> , <b>2014</b> , 57, 114-124	2.6	29
33	The potential for renewable materials to reduce the embodied energy and associated greenhouse gas emissions of medium-rise buildings. <i>Architectural Science Review</i> , <b>2014</b> , 57, 31-38	2.6	4
32	A multi-scale life-cycle energy and greenhouse-gas emissions analysis model for residential buildings. <i>Architectural Science Review</i> , <b>2014</b> , 57, 39-48	2.6	40
31	A comprehensive life cycle water analysis framework for residential buildings. <i>Building Research and Information</i> , <b>2014</b> , 42, 685-695	4.3	18
30	Multi-scale life cycle energy analysis of a low-density suburban neighbourhood in Melbourne, Australia. <i>Building and Environment</i> , <b>2013</b> , 68, 35-49	6.5	86
29	The effects of physical activity on greenhouse gas emissions for common transport modes in European countries. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2013</b> , 19, 13-19	6.4	18
28	A comprehensive assessment of the life cycle energy demand of passive houses. <i>Applied Energy</i> , <b>2013</b> , 112, 23-34	10.7	180
27	Conventional, hybrid and electric vehicles for Australian driving conditions. Part 2: Life cycle CO <sub>2</sub> -e emissions. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2013</b> , 28, 63-73	8.4	53
26	The relationship between material service life and the life cycle energy of contemporary residential buildings in Australia. <i>Architectural Science Review</i> , <b>2013</b> , 56, 252-261	2.6	19
25	Life cycle greenhouse gas emissions and energy analysis of prefabricated reusable building modules. <i>Energy and Buildings</i> , <b>2012</b> , 47, 159-168	7	249
24	Towards a comprehensive life cycle energy analysis framework for residential buildings. <i>Energy and Buildings</i> , <b>2012</b> , 55, 592-600	7	109
23	Conventional, hybrid and electric vehicles for Australian driving conditions [Part 1: Technical and financial analysis. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2012</b> , 25, 238-249	8.4	51
22	An Economic and In-Service Emissions Analysis of Conventional, Hybrid and Electric Vehicles for Australian Driving Conditions. <i>SAE International Journal of Commercial Vehicles</i> , <b>2012</b> , 5, 291-298	1	3
21	More than a survey: an interdisciplinary post-occupancy tracking of BER schools. <i>Architectural Science Review</i> , <b>2012</b> , 55, 196-205	2.6	7
20	Towards a more holistic approach to reducing the energy demand of dwellings. <i>Procedia Engineering</i> , <b>2011</b> , 21, 1033-1041		30

19	Life cycle water analysis of a residential building and its occupants. <i>Building Research and Information</i> , <b>2011</b> , 39, 589-602	4.3	32
18	Identification of 'carbon hot-spots' and quantification of GHG intensities in the biodiesel supply chain using hybrid LCA and structural path analysis. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 2471-8	10.3	135
17	Towards a comprehensive approach to zero-emissions housing. <i>Architectural Science Review</i> , <b>2011</b> , 54, 277-284	2.6	20
16	Impact of past and future residential housing development patterns on energy demand and related emissions. <i>Journal of Housing and the Built Environment</i> , <b>2011</b> , 26, 165-183	2	63
15	A comprehensive model for streamlining low-energy building design. <i>Energy and Buildings</i> , <b>2011</b> , 43, 1748-1756	7	16
14	A comprehensive framework for assessing the life-cycle energy of building construction assemblies. <i>Architectural Science Review</i> , <b>2010</b> , 53, 288-296	2.6	44
13	Using Early-Stage Assessment to Reduce the Financial Risks and Perceived Barriers of Sustainable Buildings. <i>Journal of Green Building</i> , <b>2010</b> , 5, 129-146	1.3	6
12	Life cycle energy and greenhouse emissions analysis of wind turbines and the effect of size on energy yield. <i>Renewable and Sustainable Energy Reviews</i> , <b>2009</b> , 13, 2653-2660	16.2	190
11	The path exchange method for hybrid LCA. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8251-6	10.3	120
10	Greenhouse gas emissions embodied in reinforced concrete and timber railway sleepers. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3885-90	10.3	16
9	Validation of a hybrid life-cycle inventory analysis method. <i>Journal of Environmental Management</i> , <b>2008</b> , 88, 496-506	7.9	190
8	Modelling direct and indirect water requirements of construction. <i>Building Research and Information</i> , <b>2007</b> , 35, 156-162	4.3	33
7	Life-cycle energy analysis of building integrated photovoltaic systems (BiPVs) with heat recovery unit. <i>Renewable and Sustainable Energy Reviews</i> , <b>2006</b> , 10, 559-575	16.2	101
6	VALIDATION OF THE USE OF INPUT-OUTPUT DATA FOR EMBODIED ENERGY ANALYSIS OF THE AUSTRALIAN CONSTRUCTION INDUSTRY. <i>Journal of Construction Research</i> , <b>2005</b> , 06, 71-90		31
5	Net energy analysis of solar and conventional domestic hot water systems in Melbourne, Australia. <i>Solar Energy</i> , <b>2004</b> , 76, 159-163	6.8	54
4	Hybrid Life-Cycle Inventory for Road Construction and Use. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2004</b> , 130, 43-49	4.2	75
3	Comparative greenhouse emissions analysis of domestic solar hot water systems. <i>Building Research and Information</i> , <b>2003</b> , 31, 34-47	4.3	20
2	The Building paradox—research on building-related environmental effects requires global visibility and attention. <i>Emerald Open Research</i> , <b>2</b> , 50		3

