## Life cycle energy and environmental performance of a r challenges and design implications

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**Citation Report** 

#	Article	IF	CITATIONS
2	Willingness to Pay for Improved Environmental Performance of the Building Envelope of Office Buildings in Hong Kong. Indoor and Built Environment, 2005, 14, 147-156.	1.5	7
3	Developing a multicriteria approach for the measurement of sustainable performance. Building Research and Information, 2005, 33, 3-16.	2.0	100
4	Comparative Life Cycle Assessment of Standard and Green Roofs. Environmental Science & Technology, 2006, 40, 4312-4316.	4.6	249
5	Including embodied energy considerations at the conceptual stage of building design. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2006, 220, 271-288.	0.8	29
6	Use of electrical energy in university buildings: a Hong Kong case study. Facilities, 2006, 24, 5-17.	0.8	13
7	The effect of material choice on the total energy need and recycling potential of a building. Building and Environment, 2006, 41, 1019-1026.	3.0	316
8	Environmental relevance and use of energy indicators in environmental management and research. Journal of Cleaner Production, 2006, 14, 134-145.	4.6	40
9	Carbon Dioxide Balance of Wood Substitution: Comparing Concrete- and Wood-Framed Buildings. Mitigation and Adaptation Strategies for Global Change, 2006, 11, 667-691.	1.0	291
10	Chapter 7 Life cycle based sustainability metrics. Sustainability Science and Engineering, 2006, 1, 127-159.	0.6	16
11	Alternative materials for desert buildings: a comparative life cycle energy analysis. Building Research and Information, 2007, 35, 144-155.	2.0	20
12	Environmental and Economic Evaluation of Natural Capital Appropriation through Building Construction: Practical Case Study in the Italian Context. Ambio, 2007, 36, 559-565.	2.8	30
13	Energy use in the life cycle of conventional and low-energy buildings: A review article. Energy and Buildings, 2007, 39, 249-257.	3.1	972
14	Emergy analysis of building manufacturing, maintenance and use: Em-building indices to evaluate housing sustainability. Energy and Buildings, 2007, 39, 620-628.	3.1	214
15	Modeling and optimization of polygeneration energy systems. Catalysis Today, 2007, 127, 347-359.	2.2	120
16	Environmental impacts of building materials and building services components for commercial buildings in Hong Kong. Journal of Cleaner Production, 2007, 15, 1840-1851.	4.6	100
17	Architecture and Climate: The Environmental Continuum. Geography Compass, 2007, 1, 752-778.	1.5	11
18	Environmental assessment of brick production in Greece. Building and Environment, 2007, 42, 2114-2123.	3.0	137
19 _	A study regarding the environmental impact analysis of the building materials production process (in) Tj ETQq1	1 0,78431	4 rgBT /Overl

#	Article	IF	CITATIONS
20	Environmental life cycle assessment of a commercial office building in Thailand. International Journal of Life Cycle Assessment, 2008, 13, 498-511.	2.2	151
21	Energy and environmental indicators related to construction of office buildings. Resources, Conservation and Recycling, 2008, 53, 86-95.	5.3	236
22	Environmental effect of structural solutions and building materials to a building. Environmental Impact Assessment Review, 2008, 28, 587-600.	4.4	43
23	A life-cycle energy analysis of building materials in the Negev desert. Energy and Buildings, 2008, 40, 837-848.	3.1	270
24	Comparisons of Building Energy and Cost Equivalence: An Analysis of Thirty Melbourne Case Studies. International Journal of Construction Management, 2008, 8, 33-52.	2.2	2
25	Evolutionary Game Analysis on Green Risk Information of Construction Project. , 2008, , .		0
26	Sustainable Project Management: A Balance Analysis Model of Effect. , 2009, , .		2
27	Indicators to assess the recovery of natural resources contained in demolition waste. Waste Management and Research, 2009, 27, 159-166.	2.2	8
28	Energy and emergy based cost–benefit evaluation of building envelopes relative to geographical location and climate. Building and Environment, 2009, 44, 920-928.	3.0	102
29	Optimization model for the selection of materials using a LEED-based green building rating system in Colombia. Building and Environment, 2009, 44, 1162-1170.	3.0	210
30	The environmental impact of engineering education in Australia. International Journal of Life Cycle Assessment, 2009, 14, 175-183.	2.2	6
31	Quantifying the added value of BiPV as a shading solution in atria. Solar Energy, 2009, 83, 220-231.	2.9	32
32	Carbon implications of end-of-life management of building materials. Resources, Conservation and Recycling, 2009, 53, 276-286.	5.3	130
33	Towards greening a university campus: The case of the University of Maribor, Slovenia. Resources, Conservation and Recycling, 2009, 53, 639-644.	5.3	53
34	Sustainability in the construction industry: A review of recent developments based on LCA. Construction and Building Materials, 2009, 23, 28-39.	3.2	956
35	Performance evaluation and life cycle cost analysis of earth to air heat exchanger integrated with adobe building for New Delhi composite climate. Energy and Buildings, 2009, 41, 56-66.	3.1	115
36	Life cycle energy assessment of a typical office building in Thailand. Energy and Buildings, 2009, 41, 1076-1083.	3.1	160
37	Application of Life Cycle Assessment (LCA) and extenics theory for building energy conservation assessment. Energy, 2009, 34, 1870-1879.	4.5	55

#	Article	IF	CITATIONS
38	Life cycle of buildings, demolition and recycling potential: A case study in Turin, Italy. Building and Environment, 2009, 44, 319-330.	3.0	384
39	Sustainability based on LCM of residential dwellings: A case study in Catalonia, Spain. Building and Environment, 2009, 44, 584-594.	3.0	110
40	Relevance of simplifications in LCA of building components. Building and Environment, 2009, 44, 818-825.	3.0	208
41	ECO-BALANCE FEATURES AND SIGNIFICANCE OF HEMIHYDRATE PHOSPHOGYPSUM REPROCESSING INTO GYPSUM BINDING MATERIALS. Journal of Civil Engineering and Management, 2009, 15, 205-213.	1.9	11
42	Development and Application of an Embodied Energy Model for Individual Water Supply Systems in Great Lakes Region. Proceedings of the Water Environment Federation, 2009, 2009, 5482-5496.	0.0	1
43	Assessing embodied energy of building structural elements. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2010, 163, 147-158.	0.4	49
44	Energy-saving policies and low-energy residential buildings: an LCA case study to support decision makers in Piedmont (Italy). International Journal of Life Cycle Assessment, 2010, 15, 652-665.	2.2	112
45	Inadequate documentation in published life cycle energy reports on buildings. International Journal of Life Cycle Assessment, 2010, 15, 644-651.	2.2	57
46	Life cycle primary energy implication of retrofitting a wood-framed apartment building to passive house standard. Resources, Conservation and Recycling, 2010, 54, 1152-1160.	5.3	98
47	Life cycle primary energy analysis of residential buildings. Energy and Buildings, 2010, 42, 210-220.	3.1	325
48	Life cycle primary energy use and carbon emission of an eight-storey wood-framed apartment building. Energy and Buildings, 2010, 42, 230-242.	3.1	315
49	Energy efficiency benchmarks and the performance of LEED rated buildings for Information Technology facilities in Bangalore, India. Energy and Buildings, 2010, 42, 2206-2212.	3.1	42
50	Optimal design for a dual-airflow window for different climate regions in China. Energy and Buildings, 2010, 42, 2200-2205.	3.1	24
51	Estimating construction and demolition debris generation using a materials flow analysis approach. Waste Management, 2010, 30, 2247-2254.	3.7	128
52	Life cycle inventory of buildings: A contribution analysis. Building and Environment, 2010, 45, 964-967.	3.0	105
53	Energy use, CO2 emissions and waste throughout the life cycle of a sample of hotels in the Balearic Islands. Energy and Buildings, 2010, 42, 547-558.	3.1	129
54	The changing role of life cycle phases, subsystems and materials in the LCA of low energy buildings. Energy and Buildings, 2010, 42, 869-880.	3.1	446
55	An energy systems engineering approach to the optimal design of energy systems in commercial buildings. Energy Policy, 2010, 38, 4224-4231.	4.2	74

#	Article	IF	CITATIONS
56	SEARCH FOR OPTIMAL SOLUTION OF PUBLIC BUILDING RENOVATION IN TERMS OF LIFE CYCLE. Journal of Environmental Engineering and Landscape Management, 2010, 18, 102-110.	0.4	38
57	Illustrating limitations of energy studies of buildings with LCA and actor analysis. Building Research and Information, 2010, 38, 265-279.	2.0	30
58	Framework for Evaluating Co2 Emissions of Buildings within Singapore's Building Sector: A Review Article. International Journal of Sustainable Building Technology and Urban Development, 2010, 1, 128-136.	1.0	0
59	Notice of Retraction: Efficiency Evaluation of Energy-Saving and Emission Reduction of Straw Bale Building. , 2010, , .		0
60	Carbon footprint analysis of the Bus Rapid Transit (BRT) system: a case study of Xiamen City. International Journal of Sustainable Development and World Ecology, 2010, 17, 329-337.	3.2	18
61	A Screening Life Cycle Metric to Benchmark the Environmental Sustainability of Waste Management Systems. Environmental Science & Technology, 2010, 44, 5949-5955.	4.6	45
62	Carbon emissions assessment of autoclaved building materials. , 2011, , .		1
63	The carbon-reduction potential of straw-bale housing. Building Research and Information, 2011, 39, 51-65.	2.0	59
64	Enabling dynamic life cycle assessment of buildings with wireless sensor networks. , 2011, , .		10
65	Applying LCA and fuzzy AHP to evaluate building energy conservation. Civil Engineering and Environmental Systems, 2011, 28, 123-141.	0.4	22
66	Towards a more holistic approach to reducing the energy demand of dwellings. Procedia Engineering, 2011, 21, 1033-1041.	1.2	39
67	Improving environmental performance of building through increased energy efficiency: A review. Sustainable Cities and Society, 2011, 1, 211-218.	5.1	70
68	Sustainable Buildings: An Ever Evolving Target. Sustainability, 2011, 3, 443-464.	1.6	62
69	Environmental sustainability assessments: towards a new framework. International Journal of Sustainable Society, 2011, 3, 133.	0.0	10
71	Energy Consumption and the Power Saving Potential of a University in Korea: Using a Field Survey. Journal of Asian Architecture and Building Engineering, 2011, 10, 445-452.	1.2	21
72	Reviewing the carbon footprint analysis of hotels: Life Cycle Energy Analysis (LCEA) as a holistic method for carbon impact appraisal of tourist accommodation. Journal of Cleaner Production, 2011, 19, 1917-1930.	4.6	147
73	Economic and environmental analysis of standard, high efficiency, rainwater flushed, and composting toilets. Journal of Environmental Management, 2011, 92, 419-428.	3.8	52
74	Assessment of CO2 emissions reduction in a distribution warehouse. Energy, 2011, 36, 2271-2277.	4.5	63

#	Article	IF	CITATIONS
75	Screening life cycle assessment of an office used for academic purposes. Journal of Cleaner Production, 2011, 19, 1639-1646.	4.6	6
76	Building energy-efficiency standards in a life cycle primary energy perspective. Energy and Buildings, 2011, 43, 1589-1597.	3.1	92
77	Maintenance management process for reducing CO2 emission in shopping mall complexes. Energy and Buildings, 2011, 43, 894-904.	3.1	41
78	Life cycle assessment of buildings: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 871-875.	8.2	388
79	Energy and environmental benefits in public buildings as a result of retrofit actions. Renewable and Sustainable Energy Reviews, 2011, 15, 460-470.	8.2	190
80	Dynamic Life Cycle Assessment of Building Design and Retrofit Processes. , 2011, , .		11
81	GHG accounting for pubilc transport in Xiamen city, China. Carbon Management, 2011, 2, 383-395.	1.2	9
82	Implementing Sustainable Management in Construction Industry. Advanced Materials Research, 2011, 280, 85-88.	0.3	5
83	Estimation of CO 2 Emissions in a Wastewater Pipeline Project. , 2012, , .		1
84	Carbon Footprint Inventory, Estimation and Analysis System in a RC Building Materials. Advanced Materials Research, 2012, 496, 150-153.	0.3	0
85	Review of carbon emission through buildings: threats, causes and solution: TableÂ1 International Journal of Low-Carbon Technologies, 2012, 7, 143-148.	1.2	21
86	Development of sustainable assessment criteria for building materials selection. Engineering, Construction and Architectural Management, 2012, 19, 666-687.	1.8	105
87	ECOLOGICAL PAYBACK TIME OF AN ENERGY-EFFICIENT MODULAR BUILDING. Journal of Green Building, 2012, 7, 100-119.	0.4	16
88	Practices, Challenges, and Suggestions in Predicting User Experience during the Programming Phase of Construction Projects. , 2012, , .		0
89	Environmental impact assessment of life-cycle building products using the evidence reasoning approach. International Journal of Networking and Virtual Organisations, 2012, 10, 319.	0.2	3
90	ENVIRONMENTAL ASSESSMENT TOOLS. , 2012, , 441-471.		0
91	Carbon dioxide reduction in the building life cycle: a critical review. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2012, 165, 281-292.	0.4	26
92	Multi-objective building envelope optimization for life-cycle cost and global warming potential. , 2012, , 193-200.		10

#	Article	IF	CITATIONS
93	Time-adjusted global warming potentials for LCA and carbon footprints. International Journal of Life Cycle Assessment, 2012, 17, 1042-1049.	2.2	116
94	Exploring the management of sustainable construction at the programme level: a Chinese case study. Construction Management and Economics, 2012, 30, 425-440.	1.8	56
95	Influence of construction and demolition waste management on the environmental impact of buildings. Waste Management, 2012, 32, 532-541.	3.7	201
96	Power: A new paradigm for energy use in sustainable construction. Ecological Indicators, 2012, 23, 109-115.	2.6	17
97	Implementation considerations for active vibration control in the design of floor structures. Engineering Structures, 2012, 44, 334-358.	2.6	50
98	The flow of steel into the construction sector. Resources, Conservation and Recycling, 2012, 68, 88-95.	5.3	27
99	Life cycle environmental assessment of an educational building in Northern India: A case study. Sustainable Cities and Society, 2012, 4, 22-28.	5.1	64
100	Life-Cycle-Based Multicriteria Sustainability Evaluation of Industrial Parks: A Case Study in China. Scientific World Journal, The, 2012, 2012, 1-9.	0.8	7
101	Urban Energy Systems. , 0, , 1307-1400.		98
102	Evaluation of whole life cycle assessment for heritage buildings in Australia. Building and Environment, 2012, 47, 138-149.	3.0	83
103	Life-cycle assessment of residential buildings in three different European locations, basic tool. Building and Environment, 2012, 51, 395-401.	3.0	142
104	Environmental impacts of the UK residential sector: Life cycle assessment of houses. Building and Environment, 2012, 54, 86-99.	3.0	213
105	Methodology of CO2 emission evaluation in the life cycle of office building façades. Environmental Impact Assessment Review, 2012, 33, 41-47.	4.4	46
106	Climate change influence on building lifecycle greenhouse gas emissions: Case study of a UK mixed-use development. Energy and Buildings, 2012, 48, 112-126.	3.1	45
107	Life Cycle Energy Consumption and Carbon Dioxide Emission of Residential Building Designs in Beijing. Journal of Industrial Ecology, 2012, 16, 576-587.	2.8	117
108	Construction Matters: Comparing Environmental Impacts of Building Modular and Conventional Homes in the United States. Journal of Industrial Ecology, 2012, 16, 243-253.	2.8	140
109	Assessment of CO2 emissions reduction in high-rise concrete office buildings using different material use options. Resources, Conservation and Recycling, 2012, 61, 22-34.	5.3	120
110	Need for an embodied energy measurement protocol for buildings: A review paper. Renewable and Sustainable Energy Reviews, 2012, 16, 3730-3743.	8.2	343

CITATION REPORT IF CITATIONS Energy efficient design of building: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 8.2 443 Life cycle energy consumption and CO2 emission of an office building in China. International Journal 2.2 147 of Life Cycle Assessment, 2012, 17, 105-118. Impact of lifetime on US residential building LCA results. International Journal of Life Cycle 2.2 139 Assessment, 2012, 17, 337-349. Service life prediction of residential interior finishes for life cycle assessment. International Journal of Life Cycle Assessment, 2012, 17, 362-371. An audit of life cycle energy analyses of buildings. Habitat International, 2013, 39, 43-54. 2.3 39 Application of life-cycle assessment to early stage building design for reduced embodied environmental impacts. Building and Environment, 2013, 60, 81-92. Dynamic life cycle assessment: framework and application to an institutional building. International 2.2 176 Journal of Life Cycle Assessment, 2013, 18, 538-552. Achieving a holistic view of the life cycle performance of existing dwellings. Building and Environment, 2013, 70, 90-101. System boundary for embodied energy in buildings: A conceptual model for definition. Renewable and 8.2 185 Sustainable Energy Reviews, 2013, 21, 153-164. Life cycle assessment in the construction sector: A review. Renewable and Sustainable Energy Reviews, 8.2 2013, 26, 379-388. Impact of building service life models on life cycle assessment. Building Research and Information, 2.0 76 2013, 41, 168-186. Embodied energy consumption of building construction engineering: Case study in E-town, Beijing. Energy and Buildings, 2013, 64, 62-72. 3.1 86

11

Considering fabrication in sustainable computing., 2013,,. 123

Green computing: A life cycle perspective., 2013,,. 124 Sustainable restoration of traditional building systems in the historical centre of Sevilla (Spain). 125 3.1 24 Energy and Buildings, 2013, 62, 648-659. Life cycle analysis in the construction sector: Guiding the optimization of conventional Italian 3.1 258 buildings. Energy and Buildings, 2013, 64, 73-89. Sustainability assessment of an innovative lightweight building technology for partition walls – 127 3.089 Comparison with conventional technologies. Building and Environment, 2013, 67, 147-159. Life cycle primary energy use and carbon footprint of wood-frame conventional and passive houses 5.1 with biomass-based energy supply. Applied Energy, 2013, 112, 834-842.

ARTICLE

3559-3573.

#

111

113

114

115

117

118

119

#	Article	IF	CITATIONS
129	Life Cycle Assessment of a passive house in a seismic temperate zone. Energy and Buildings, 2013, 64, 463-472.	3.1	73
130	Exergy-based index for assessing the building sustainability. Building and Environment, 2013, 60, 202-210.	3.0	27
131	A Multi-Criteria Decision Analysis based assessment of walling materials in India. Building and Environment, 2013, 64, 107-117.	3.0	12
132	Indoor environmental quality in a dynamic life cycle assessment framework for whole buildings: Focus on human health chemical impacts. Building and Environment, 2013, 62, 182-190.	3.0	51
133	LCE analysis of buildings – Taking the step towards Net Zero Energy Buildings. Energy and Buildings, 2013, 62, 381-391.	3.1	81
134	Low carbon and low embodied energy materials in buildings: A review. Renewable and Sustainable Energy Reviews, 2013, 23, 536-542.	8.2	272
135	A technique for reporting Life Cycle Impact Assessment (LCIA) results. Ecological Indicators, 2013, 34, 1-6.	2.6	13
136	Mathematical modelling of embodied energy, greenhouse gases, waste, time–cost parameters of building projects: A review. Building and Environment, 2013, 59, 23-37.	3.0	87
137	Life cycle assessment of the air emissions during building construction process: A case study in Hong Kong. Renewable and Sustainable Energy Reviews, 2013, 17, 160-169.	8.2	132
138	Economic viability of energy-efficiency measures in educational buildings in Finland. Advances in Building Energy Research, 2013, 7, 120-127.	1.1	5
139	Greenhouse gases and building lifetimes. Building and Environment, 2013, 68, 77-86.	3.0	23
140	A Quantitative Study on Carbon Emission Features of Residential Building in Shenyang Based on LCP Theory. Applied Mechanics and Materials, 0, 448-453, 1297-1300.	0.2	0
141	A Materials Life Cycle Assessment of a Net-Zero Energy Building. Energies, 2013, 6, 1125-1141.	1.6	83
142	The Chicago Center for Green Technology: life-cycle assessment of a brownfield redevelopment project. Environmental Research Letters, 2013, 8, 015038.	2.2	12
143	Life Cycle Assessment of Green Buildings: A Case Study in China. , 2013, , .		0
144	Retrofit versus new-build house using life-cycle assessment. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2013, 166, 122-137.	0.4	18
145	Cumulative energy, emissions, and water consumption for geothermal electric power production. Journal of Renewable and Sustainable Energy, 2013, 5, .	0.8	10
146	Analyzing the Practice of Life Cycle Assessment. Journal of Industrial Ecology, 2013, 17, 777-788.	2.8	38

#	Article	IF	CITATIONS
147	The relationship between material service life and the life cycle energy of contemporary residential buildings in Australia. Architectural Science Review, 2013, 56, 252-261.	1.1	25
148	Evaluating green performance of building products based on gray relational analysis and analytic hierarchy process. Environmental Progress and Sustainable Energy, 2014, 33, 1389-1395.	1.3	17
149	Parcelâ€level modeling of endâ€use water demands in public supply. Journal - American Water Works Association, 2013, 105, E460.	0.2	6
150	Facilities management driving green building certification: a case from Finland. Facilities, 2013, 31, 328-342.	0.8	18
151	Sustainability Potentials of Housing Refurbishment. Buildings, 2013, 3, 278-299.	1.4	10
152	Life Comparative Analysis of Energy Consumption and CO <sub>2</sub> Emissions of Different Building Structural Frame Types. Scientific World Journal, The, 2013, 2013, 1-5.	0.8	13
153	Emergy Evaluation of Formal Education in the United States: 1870 to 2011. Systems, 2014, 2, 328-365.	1.2	15
154	Quantifying the biophysical climate change mitigation potential of Canada's forest sector. Biogeosciences, 2014, 11, 3515-3529.	1.3	134
155	A case study about embodied energy in concrete and structural masonry buildings. Revista De La Construccion, 2014, 13, 9-14.	0.5	9
156	Challenges for capturing and assessing initial embodied energy: a contractor's perspective. Construction Management and Economics, 2014, 32, 290-308.	1.8	43
157	Reflecting on future research concerning the added value of FM. Facilities, 2014, 32, 856-870.	0.8	12
158	Post-occupancy life cycle energy assessment of a residential building in Australia. Architectural Science Review, 2014, 57, 114-124.	1.1	40
159	A Quantitative Research on Carbon Emissions in the Residential Area of China Based on LCP Theory. Applied Mechanics and Materials, 2014, 587-589, 536-540.	0.2	0
160	Research and Simulation of Reasonable Distribution of Energy Saving Design Model in Rural Residential. Advanced Materials Research, 0, 986-987, 445-448.	0.3	0
161	A Simple Method for Evaluating the Sustainable Design of Energy Efficient Family Houses. Strojniski Vestnik/Journal of Mechanical Engineering, 2014, 60, 425-436.	0.6	3
162	Long-Term Performance of Rigid Plastic Foam Building Insulation. Journal of Materials in Civil Engineering, 2014, 26, 374-378.	1.3	6
163	Greenhouse gas emission from construction stage of wooden buildings. International Wood Products Journal, 2014, 5, 217-223.	0.6	10
164	Creating a framework for the successful implementation of energy retrofit projects. Journal of Facilities Management, 2014, 12, 38-55.	1.0	1

#	Article	IF	CITATIONS
165	Remote energy management benefits in retail building portfolios. Journal of Facilities Management, 2014, 12, 56-71.	1.0	9
166	Energy, comfort and environmental assessment of different building envelope techniques in a Mediterranean climate with a hot dry summer. Applied Energy, 2014, 134, 176-196.	5.1	67
167	Assessment Model for Energy Consumption and Greenhouse Gas Emissions during Building Construction. Journal of Management in Engineering - ASCE, 2014, 30, 226-235.	2.6	78
168	Life cycle assessment (LCA) and life cycle energy analysis (LCEA) of buildings and the building sector: A review. Renewable and Sustainable Energy Reviews, 2014, 29, 394-416.	8.2	941
169	A hybrid life cycle assessment of atomic layer deposition process. Journal of Cleaner Production, 2014, 74, 145-154.	4.6	11
170	Heat planning for fossil-fuel-free district heating areas with extensive end-use heat savings: A case study of the Copenhagen district heating area in Denmark. Energy Policy, 2014, 68, 294-305.	4.2	27
171	Life cycle assessment of a single-family residential building in Canada: A case study. Building Simulation, 2014, 7, 429-438.	3.0	38
172	Life Cycle Assessment and Service Life Prediction. Journal of Industrial Ecology, 2014, 18, 187-200.	2.8	60
173	Comparison of life cycle assessment databases: A case study on building assessment. Building and Environment, 2014, 79, 20-30.	3.0	121
174	Thermodynamic investigation of building integrated energy efficiency for building retrofit. Energy and Buildings, 2014, 77, 139-148.	3.1	14
175	Economic evaluation of the energy consumption and thermal passive performance of Portuguese dwellings. Energy and Buildings, 2014, 76, 304-315.	3.1	5
176	Component level strategies for exploiting the lifespan of steel in products. Resources, Conservation and Recycling, 2014, 84, 24-34.	5.3	45
177	Sustainable structural design of tall buildings based on embodied energy. Energy and Buildings, 2014, 68, 254-269.	3.1	137
178	Optimization of a residential solar combisystem for minimum life cycle cost, energy use and exergy destroyed. Solar Energy, 2014, 100, 102-113.	2.9	43
179	Life cycle assessment (LCA) of sustainable building materials: an overview. , 2014, , 38-62.		34
180	A greenhouse gas assessment of a stadium in Australia. Building Research and Information, 2014, 42, 602-615.	2.0	11
181	Life cycle cost and carbon footprint of energy efficient refurbishments to 20th century UK school buildings. International Journal of Sustainable Built Environment, 2014, 3, 1-17.	3.2	46
182	Life cycle assessment (LCA) of the building sector: strengths and weaknesses. , 2014, , 63-83.		10

#	Article	IF	Citations
183	Criteria for Architects and Engineers to Achieve Sustainability and Buildability in Building Envelope Designs. Journal of Management in Engineering - ASCE, 2014, 30, 236-245.	2.6	24
184	On the development of multi-linear regression analysis to assess energy consumption in the early stages of building design. Energy and Buildings, 2014, 85, 246-255.	3.1	189
185	A feasibility study on a building's window system based on dye-sensitized solar cells. Energy and Buildings, 2014, 81, 38-47.	3.1	44
186	Influence of simplification of life cycle inventories on the accuracy of impact assessment: application to construction products. Journal of Cleaner Production, 2014, 79, 142-151.	4.6	29
187	Integrating triple bottom line input–output analysis into life cycle sustainability assessment framework: the case for US buildings. International Journal of Life Cycle Assessment, 2014, 19, 1488-1505.	2.2	139
188	Relative importance of electricity sources and construction practices in residential buildings: A Swiss-US comparison of energy related life-cycle impacts. Energy and Buildings, 2014, 68, 620-631.	3.1	55
189	Lifecycle primary energy analysis of low-energy timber building systems for multi-storey residential buildings. Energy and Buildings, 2014, 81, 84-97.	3.1	64
190	A case study on life cycle energy use of residential building in Southern India. Energy and Buildings, 2014, 80, 247-259.	3.1	96
191	Comparison of energy-based indicators used in life cycle assessment tools for buildings. Building and Environment, 2014, 79, 138-151.	3.0	63
192	Barriers to green buildings at two Brazilian Engineering Schools. International Journal of Sustainable Built Environment, 2014, 3, 87-95.	3.2	44
193	Scope-based carbon footprint analysis of U.S. residential and commercial buildings: An input–output hybrid life cycle assessment approach. Building and Environment, 2014, 72, 53-62.	3.0	188
194	Recurrent embodied energy and its relationship with service life and life cycle energy. Facilities, 2014, 32, 160-181.	0.8	18
195	Measuring carbon emission from energy consumption in a Hong Kong family. Facilities, 2014, 32, 324-341.	0.8	6
196	Life cycle environmental performance of material specification: a BIM-enhanced comparative assessment. International Journal of Sustainable Building Technology and Urban Development, 2015, 6, 14-24.	1.0	119
197	Research on whole life cycle carbon emission model of typical buildings. Chinese Journal of Population Resources and Environment, 2015, 13, 320-323.	1.5	3
199	Development of a Decision Support Tool for nZEB (nearly Zero Emission Building) at the Early Design Stage. Journal of Asian Architecture and Building Engineering, 2015, 14, 475-481.	1.2	3
200	Energy Consumption Prediction of University Buildings in China and Strategies for Energy Efficiency Management. , 2015, , .		1
201	Hybrid Life Cycle Assessment of Low, Mid and High-Rise Multi-Family Dwellings. Challenges, 2015, 6, 98-116.	0.9	10

#	Article	IF	CITATIONS
202	Modeling a Decision Support Tool for Buildable and Sustainable Building Envelope Designs. Buildings, 2015, 5, 521-535.	1.4	19
203	Energy and Environmental Evaluation of Non-Transparent Constructions of Building Envelope for Wooden Houses. Energies, 2015, 8, 11047-11075.	1.6	20
204	Methodological Approach to the Energy Analysis of Unconstrained Historical Buildings. Sustainability, 2015, 7, 10428-10444.	1.6	30
205	BIM Application to Select Appropriate Design Alternative with Consideration of LCA and LCCA. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	41
206	BIM-Based Decision Support System for Material Selection Based on Supplier Rating. Buildings, 2015, 5, 1321-1345.	1.4	18
207	A program-level management system for the life cycle environmental and economic assessment of complex building projects. Environmental Impact Assessment Review, 2015, 54, 9-21.	4.4	28
208	Measuring office fit-out changes to determine recurring embodied energy in building life cycle assessment. Facilities, 2015, 33, 262-274.	0.8	12
209	BIM extension for the sustainability appraisal of conceptual steel design. Advanced Engineering Informatics, 2015, 29, 28-46.	4.0	70
210	A review on Life Cycle Assessment, Life Cycle Energy Assessment and Life Cycle Carbon Emissions Assessment on buildings. Applied Energy, 2015, 143, 395-413.	5.1	589
211	A review of life cycle assessment method for building industry. Renewable and Sustainable Energy Reviews, 2015, 45, 244-248.	8.2	238
212	Embodied Energy of Construction Materials: Integrating Human and Capital Energy into an IO-Based Hybrid Model. Environmental Science & Technology, 2015, 49, 1936-1945.	4.6	59
213	Life cycle assessment of wood construction according to the normative standards. European Journal of Wood and Wood Products, 2015, 73, 299-312.	1.3	50
214	Life cycle assessment as a comparative analysis tool for sustainable brownfield redevelopment projects. , 2015, , 323-365.		2
215	Life cycle energy (LCEA) and carbon dioxide emissions (LCCO2A) assessment of two residential buildings in Gaziantep, Turkey. Energy and Buildings, 2015, 102, 417-431.	3.1	142
216	Life cycle based evaluation of harvested rainwater use in toilets and for irrigation. Journal of Cleaner Production, 2015, 95, 311-321.	4.6	65
217	Life cycle assessment use in the North American building community: summary of findings from a 2011/2012 survey. International Journal of Life Cycle Assessment, 2015, 20, 318-331.	2.2	32
218	China's energy consumption in the building sector: A life cycle approach. Energy and Buildings, 2015, 94, 240-251.	3.1	168
219	Cradle-to-gate sustainable target value design: integrating life cycle assessment and construction management for buildings. Journal of Cleaner Production, 2015, 100, 107-115.	4.6	53

#	Article	IF	CITATIONS
220	Environmental Life Cycle Assessment of a Residential Building in Egypt: A Case Study. Procedia Technology, 2015, 19, 349-356.	1.1	18
221	Preparation of gypsum/sawdust green composite with spray coating. RSC Advances, 2015, 5, 96965-96971.	1.7	2
222	Acid-hybridized expanded perlite as a composite phase-change material in wallboards. RSC Advances, 2015, 5, 66134-66140.	1.7	40
223	An investigation on life-cycle energy consumption and carbon emissions of building space heating and cooling systems. Renewable Energy, 2015, 84, 124-129.	4.3	36
224	Saving potential for embodied energy and CO <sub>2</sub> emissions from building elements: A case study. Journal of Building Physics, 2015, 39, 261-284.	1.2	12
225	Seismic Loss Estimation and Environmental Issues. Earthquake Spectra, 2015, 31, 1285-1308.	1.6	21
226	Life cycle analysis of biochemical cellulosic ethanol under multiple scenarios. GCB Bioenergy, 2015, 7, 1019-1033.	2.5	59
227	Greenhouse gas emissions during the construction phase of a building: a case study in China. Journal of Cleaner Production, 2015, 103, 249-259.	4.6	265
228	Sustainable target value design: integrating life cycle assessment and target value design to improve building energy and environmental performance. Journal of Cleaner Production, 2015, 88, 43-51.	4.6	98
229	Impact of progressive sustainable target value assessment on building design decisions. Building and Environment, 2015, 85, 52-60.	3.0	36
230	Delivering improved initial embodied energy efficiency during construction. Sustainable Cities and Society, 2015, 14, 267-279.	5.1	22
231	Integration of the environmental management aspect in the optimization of the design and planning of energy systems. Journal of Cleaner Production, 2015, 106, 576-593.	4.6	39
232	Performance of Modular Prefabricated Architecture: Case Study-Based Review and Future Pathways. Sustainability, 2016, 8, 558.	1.6	126
233	Quantification of Improvement in Environmental Quality for Old Residential Buildings Using Life Cycle Assessment. Sustainability, 2016, 8, 1303.	1.6	7
234	The assessment of the relevance of building components and life phases for the environmental profile of nearly zero-energy buildings: life cycle assessment of a multifamily building in Italy. International Journal of Life Cycle Assessment, 2016, 21, 1667-1690.	2.2	25
235	Energy use embodied in China׳s construction industry: A multi-regional input–output analysis. Renewable and Sustainable Energy Reviews, 2016, 53, 1303-1312.	8.2	140
236	Quantitative approaches in life cycle assessment—part 1—descriptive statistics and factor analysis. International Journal of Life Cycle Assessment, 2016, 21, 903-911.	2.2	14
237	Methodologies for Service Life Prediction of Buildings. Green Energy and Technology, 2016, , .	0.4	59

ARTICLE IF CITATIONS # Correlations in Life Cycle Impact Assessment methods (LCIA) and indicators for construction 238 2.6 61 materials: What matters?. Ecological Indicators, 2016, 67, 174-182. Environmental footprint assessment of building structures: A comparative study. Building and 64 Environment, 2016, 104, 162-171. Expanded Polystyrene (EPS) and Waste Cooking Oil (WCO): From Urban Wastes to Potential Material 240 1.8 20 of Construction. Waste and Biomass Valorization, 2016, 7, 1245-1254. Comparative life cycle energy and cost analysis of post-disaster temporary housings. Applied Energy, 241 5.1 2016, 171, 429-443. On-Site Renewable Energy and Green Buildings: A System-Level Analysis. Environmental Science & amp; 242 4.6 8 Technology, 2016, 50, 4606-4614. Life-Cycle Environmental Impact Assessment of Reinforced Concrete Buildings Subjected to Natural Hazards. Journal of Architectural Engineering, 2016, 22, . 0.8 Economic implications of the energy issue: Evidence for a positive non-linear relation between 244 3.1 47 embodied energy and construction cost. Energy and Buildings, 2016, 123, 59-70. Simplification in life cycle assessment of single-family houses: A review of recent developments. 114 Building and Environment, 2016, 103, 215-227. Modeling Occupant-Building-Appliance Interaction for Energy Waste Analysis. Procedia Engineering, 246 1.2 17 2016, 145, 42-49. Integrating Research Findings into Sustainable Building Delivery Teaching. Procedia Engineering, 2016, 247 1.2 145, 158-163. Development of an automated estimator of life-cycle carbon emissions for residential buildings: A 248 49 2.3case study in Nanjing, China. Habitat International, 2016, 57, 154-163. Are sustainable buildings healthy? An investigation of lifecycle relationship between building sustainability and its environmental health impacts. World Journal of Science Technology and Sustainable Development, 2016, 13, 190-204 An Investigation into GHG and nonâ€GHG Impacts of Double Skin Façades in Office Refurbishments. 250 2.8 21 Journal of Industrial Ecology, 2016, 20, 234-248. Analysis of environmental performance of indoor living walls using embodied energy and carbon. 1.2 International Journal of Low-Carbon Technologies, 0, ,. Life-cycle energy and cost analyses of window shading used to improve the thermal performance of 252 4.6 31 houses. Journal of Cleaner Production, 2016, 133, 1371-1383. Life cycle performance of modular buildings: A critical review. Renewable and Sustainable Energy 358 Reviews, 2016, 62, 1171-1183. Sustainability assessment framework for low rise commercial buildings: life cycle impact index-based 254 2.1 33 approach. Clean Technologies and Environmental Policy, 2016, 18, 2579-2590. Assessment of electromagnetic field levels from surrounding high-tension overhead power lines for 1.3 proposed land use. Environmental Monitoring and Assessment, 2016, 188, 316.

#	Article	IF	Citations
256	Implementing multi objective genetic algorithm for life cycle carbon footprint and life cycle cost minimisation: A building refurbishment case study. Energy, 2016, 97, 58-68.	4.5	98
257	Life cycle assessment and cost analysis of residential buildings in south east of Turkey: part 1—review and methodology. International Journal of Life Cycle Assessment, 2016, 21, 831-846.	2.2	49
258	Developments in life cycle assessment applied to evaluate the environmental performance of construction and demolition wastes. Waste Management, 2016, 50, 151-172.	3.7	155
259	Urban versus conventional agriculture, taxonomy of resource profiles: a review. Agronomy for Sustainable Development, 2016, 36, 1.	2.2	107
260	Lifecycle Environmental Performance of Natural-Hazard Mitigation for Buildings. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	32
261	Life-cycle energy analysis of prefabricated building components: an input–output-based hybrid model. Journal of Cleaner Production, 2016, 112, 2198-2207.	4.6	206
262	Integrating clean development mechanism into the development approval process of buildings: A case of urban housing in Uganda. Habitat International, 2016, 53, 331-341.	2.3	7
263	Using energy profiles to identify university energy reduction opportunities. International Journal of Sustainability in Higher Education, 2016, 17, 188-207.	1.6	18
264	Reducing carbon footprint of facilities using a facility management approach. Facilities, 2016, 34, 247-259.	0.8	18
265	Sustainability and resiliency metrics for buildings – Critical review. Building and Environment, 2016, 101, 116-125.	3.0	116
266	Life cycle sustainability assessment of RC buildings in seismic regions. Engineering Structures, 2016, 110, 347-362.	2.6	82
267	GHG emission reduction performance of state-of-the-art green buildings: Review of two case studies. Renewable and Sustainable Energy Reviews, 2016, 56, 484-493.	8.2	66
268	Preliminary study for self-sufficiency of construction materials in a Portuguese region – Évora. Journal of Cleaner Production, 2016, 112, 771-786.	4.6	13
269	Energy performance of Double-Skin Façades in temperate climates: A systematic review and meta-analysis. Renewable and Sustainable Energy Reviews, 2016, 54, 1525-1536.	8.2	101
270	Assessment of residential building performances for the different climate zones of Turkey in terms of life cycle energy and cost efficiency. Energy and Buildings, 2016, 110, 362-376.	3.1	34
271	Embodied and operational energy of urban residential buildings in India. Energy and Buildings, 2016, 110, 211-219.	3.1	97
272	Evaluating Sustainable Building-Maintenance Projects: Balancing Economic, Social, and Environmental Impacts in the Case of Hong Kong. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	19
273	Mapping product knowledge to life cycle inventory bounds: a case study of steel manufacturing. Journal of Cleaner Production, 2016, 113, 557-564.	4.6	15

#	Article	IF	CITATIONS
274	The air emission assessment of a South Korean apartment building's life cycle, along with environmental impact. Building and Environment, 2016, 95, 104-115.	3.0	23
275	Construction solutions for energy efficient single-family house based on its life cycle multi-criteria analysis: a case study. Journal of Cleaner Production, 2016, 112, 532-541.	4.6	105
276	Method for Estimating and Predicting CO2e Emissions: Case Study of an Urban Wastewater System in Suzhou, China. Journal of Architectural Engineering, 2016, 22, .	0.8	2
277	Energy and carbon performance evaluation for buildings and urban precincts: review and a new modelling concept. Journal of Cleaner Production, 2017, 163, 24-35.	4.6	27
278	Evaluation of the impacts of end-of-life management strategies for deconstruction of a high-rise concrete framed office building. Applied Energy, 2017, 185, 1595-1603.	5.1	56
279	Economic and environmental analysis of five Chinese rural toilet technologies based on the economic input–output life cycle assessment. Journal of Cleaner Production, 2017, 163, S379-S391.	4.6	30
280	Key prescriptive parameters analysis of the new china building energy code based on saving to investment ratio methodology. Indoor and Built Environment, 2017, 26, 78-91.	1.5	6
281	Embodied energy and cost of building materials: correlation analysis. Building Research and Information, 2017, 45, 508-523.	2.0	23
282	Life-cycle assessment of post-disaster temporary housing. Building Research and Information, 2017, 45, 524-538.	2.0	39
283	Potential benefits and environmental life cycle assessment of equipping buildings in dense cities for struvite production from source-separated human urine. Journal of Cleaner Production, 2017, 143, 288-302.	4.6	19
284	The ecological footprint evaluation of low carbon campuses based on life cycle assessment: A case study of Tianjin, China. Journal of Cleaner Production, 2017, 144, 266-278.	4.6	44
285	Ecodesign tools in the construction sector: Analyzing usage inadequacies with designers' needs. Journal of Cleaner Production, 2017, 148, 60-72.	4.6	36
286	A multi-regional based hybrid method for assessing life cycle energy use of buildings: A case study. Journal of Cleaner Production, 2017, 148, 760-772.	4.6	36
287	Energetic, exergetic and economic analysis of an innovative Solar CombiSystem (SCS) producing thermal and electric energies: Application in residential and tertiary households. Energy Conversion and Management, 2017, 140, 36-50.	4.4	16
288	Life cycle analysis of energy consumption and CO2 emissions from a typical large office building in Tianjin, China. Building and Environment, 2017, 117, 36-48.	3.0	56
289	Towards guidance values for the environmental performance of buildings: application to the statistical analysis of 40 low-energy single family houses' LCA in France. International Journal of Life Cycle Assessment, 2017, 22, 657-674.	2.2	39
290	Life cycle cost of different Walling material used for affordable housing in tropics. Case Studies in Construction Materials, 2017, 7, 15-29.	0.8	24
291	A review on current advances in the energy and environmental performance of buildings towards a more sustainable built environment. Renewable and Sustainable Energy Reviews, 2017, 77, 845-860.	8.2	151

#	Article	IF	Citations
292	Adaptive reuse of buildings: Eco-efficiency assessment of retrofit strategies for alternative uses of an historic building. Journal of Cleaner Production, 2017, 157, 94-105.	4.6	46
293	Energy, exergy and economic viability of a heat storage system used for domestic hot water supply in urban and isolated households. Applied Thermal Engineering, 2017, 124, 442-453.	3.0	9
294	Evaluation of life cycle carbon impacts for higher education building redevelopment: an archetype approach. Energy and Buildings, 2017, 147, 113-122.	3.1	6
295	A dynamic life cycle carbon emission assessment on green and non-green buildings in China. Energy and Buildings, 2017, 149, 272-281.	3.1	84
296	Evaluation of life cycle carbon impacts for higher education building redevelopment: a multiple case study approach. Energy and Buildings, 2017, 150, 507-515.	3.1	9
297	Life cycle embodied energy analysis of residential buildings: A review of literature to investigate embodied energy parameters. Renewable and Sustainable Energy Reviews, 2017, 79, 390-413.	8.2	185
298	A comparative analysis of embodied carbon in high-rise buildings regarding different design parameters. Journal of Cleaner Production, 2017, 161, 663-675.	4.6	85
299	Implications of Life Cycle Energy Assessment of a new school building, regarding the nearly Zero Energy Buildings targets in EU: A case of Study. Sustainable Cities and Society, 2017, 32, 142-152.	5.1	24
300	The Global Warming Potential of Building Materials: An Application of Life Cycle Analysis in Nepal. Mountain Research and Development, 2017, 37, 47.	0.4	10
301	Inventory analysis and carbon footprint of coastland-hotel services: A Spanish case study. Science of the Total Environment, 2017, 595, 244-254.	3.9	52
302	Building life cycle assessment research: A review by bibliometric analysis. Renewable and Sustainable Energy Reviews, 2017, 76, 176-184.	8.2	113
303	Identifying customer behavioral factors and price premiums of green building purchasing. Industrial Marketing Management, 2017, 64, 36-43.	3.7	36
304	Evaluating the Life Cycle Environmental Benefits and Trade-Offs of Water Reuse Systems for Net-Zero Buildings. Environmental Science & Technology, 2017, 51, 1110-1119.	4.6	38
305	A review of structural, thermo-physical, acoustical, and environmental properties of wooden materials for building applications. Building and Environment, 2017, 114, 307-332.	3.0	187
306	Super-insulated wooden envelopes in Mediterranean climate: Summer overheating, thermal comfort optimization, environmental impact on an Italian case study. Energy and Buildings, 2017, 138, 716-732.	3.1	38
307	An environmental assessment and optimization method for contractors. Journal of Cleaner Production, 2017, 142, 1877-1891.	4.6	18
308	Comparative life cycle assessment and life cycle costing of lodging in the Himalaya. International Journal of Life Cycle Assessment, 2017, 22, 1851-1863.	2.2	12
309	Estimating product and energy substitution benefits in nationalâ€scale mitigation analyses for Canada. GCB Bioenergy, 2017, 9, 1071-1084.	2.5	83

#	Article	IF	CITATIONS
310	Carbon Footprint and Carbon Emission Reduction of Urban Buildings: A Case in Xiamen City, China. Procedia Engineering, 2017, 198, 1007-1017.	1.2	40
311	Investigation of the Sustainability and Resilience Characteristics of Buildings Including Existing and Potential Assessment Metrics. , 2017, , .		3
312	Sustainable design rating system comparison using a life-cycle methodology. Building and Environment, 2017, 126, 410-421.	3.0	11
313	Consequential LCA modelling of building refurbishment in New Zealand- an evaluation of resource and waste management scenarios. Journal of Cleaner Production, 2017, 165, 119-133.	4.6	55
314	Application of life cycle thinking towards sustainable cities: A review. Journal of Cleaner Production, 2017, 166, 939-951.	4.6	110
315	The Environmental Performance of Prefabricated Building and Construction: A Critical Review. , 2017,		5
316	Measuring the impact of dynamic life cycle performance feedback on conceptual building design. Journal of Cleaner Production, 2017, 164, 726-735.	4.6	22
317	Development of performance criteria for sustainability evaluation of modular versus conventional construction methods. Journal of Cleaner Production, 2017, 142, 3592-3606.	4.6	179
318	The atmospheric environmental impact of a Korean traditional building's life cycle, along with carbon footprint analysis. Sustainable Cities and Society, 2017, 28, 172-186.	5.1	18
319	To demolish or not to demolish: Life cycle consideration of repurposing buildings. Sustainable Cities and Society, 2017, 28, 146-153.	5.1	85
320	Green Building Rating Systems and Whole-Building Life Cycle Assessment: Comparative Study of the Existing Assessment Tools. Journal of Architectural Engineering, 2017, 23, .	0.8	49
321	Life cycle assessment (LCA) of building refurbishment: A literature review. Energy and Buildings, 2017, 135, 286-301.	3.1	287
322	Developing a CO2-e accounting method for quantification and analysis of embodied carbon in high-rise buildings. Journal of Cleaner Production, 2017, 141, 825-836.	4.6	90
323	Recent developments, future challenges and new research directions in LCA of buildings: A critical review. Renewable and Sustainable Energy Reviews, 2017, 67, 408-416.	8.2	351
324	Experimental Methods, Analytic Explorations, and Model Reliability. , 2017, , 257-280.		0
325	Benchmarking the Embodied Carbon of Buildings. Technology Architecture and Design, 2017, 1, 208-218.	0.6	38
326	Sustainability analyses of embodied carbon and construction cost in high-rise buildings using different materials and structural forms. HKIE Transactions, 2017, 24, 216-227.	1.9	12
327	Developing a Rating System for Building Energy Efficiency Based on In Situ Measurement in China. Sustainability, 2017, 9, 208.	1.6	10

		CITATION REPORT		
#	Article		IF	CITATIONS
329	Life-Cycle Energy Assessment in Buildings: Framework, Approaches, and Case Studies. ,	2017,,113-136.		12
330	Operational vs. Embodied Energy: a Case for Wood Construction. Drvna Industrija, 201	7, 68, 163-172.	0.3	10
331	Assessment of CO2 Emissions Reduction in High-Rise Concrete Office Buildings Using I Material-Use Options. , 2017, , 39-61.	Different		0
332	Life cycle energy of high-rise office buildings in Hong Kong. Energy and Buildings, 2018	, 167, 152-164.	3.1	38
333	Life cycle sustainability performance assessment framework for residential modular bui Aggregated sustainability indices. Building and Environment, 2018, 138, 21-41.	ldings:	3.0	99
334	Life cycle assessment and environmental-based choices at the early design stages: an a building information modelling. Architectural Engineering and Design Management, 20	pplication using 18, 14, 332-346.	1.2	37
335	General Green Building Energy Efficiency. Applied Mechanics and Materials, 0, 878, 236	j-242.	0.2	1
336	Embodied Carbon in Construction, Maintenance and Demolition in Buildings. , 2018, , 2	217-245.		2
337	Analysis of Embodied Carbon in Buildings Supported by a Data Validation System. , 201	8, , 143-164.		1
338	Embodied Carbon in Buildings. , 2018, , .			19
339	Life-Cycle Assessment of Construction Materials: Analysis of Environmental Impacts and Recommendations of Eco-Efficient Management Practices. , 2018, , 1-37.	d		0
340	Dynamic life cycle assessment integrating value choice and temporal factors—A case elementary school. Energy and Buildings, 2018, 158, 1087-1096.	study of an	3.1	19
341	Embodied energy analysis of higher education buildings using an input-output-based hy Energy and Buildings, 2018, 161, 41-54.	/brid method.	3.1	45
342	The exploration of the life-cycle energy saving potential for using prefabrication in resid buildings in China. Energy and Buildings, 2018, 166, 561-570.	ential	3.1	61
343	Selecting design strategies using multi-criteria decision making to improve the sustaina buildings. Building and Environment, 2018, 139, 58-68.	ability of	3.0	99
344	The development of a basic framework for the sustainability of residential buildings in F Sustainable Cities and Society, 2018, 40, 365-371.	Pakistan.	5.1	18
345	Life cycle assessment: a multi-scenario case study of a low-energy industrial building in Energy and Buildings, 2018, 168, 191-200.	Thailand.	3.1	33
346	Environmental performance analysis of residential buildings in Brazil using life cycle ass (LCA). Construction and Building Materials, 2018, 169, 748-761.	essment	3.2	60

#	Article	IF	CITATIONS
347	Exploring an integrated urban carbon dioxide (CO2) emission model and mitigation plan for new cities. Environment and Planning B: Urban Analytics and City Science, 2018, 45, 821-841.	1.0	2
348	Sustainable life span prediction of shelters constructed in refugee camps in Turkey. Energy, Ecology and Environment, 2018, 3, 5-12.	1.9	9
349	Scrutinising embodied carbon in buildings: The next performance gap made manifest. Renewable and Sustainable Energy Reviews, 2018, 81, 2431-2442.	8.2	114
350	LCA of Buildings and the Built Environment. , 2018, , 695-722.		12
351	Probabilistic Assessment of the Life-Cycle Environmental Performance and Functional Life of Buildings due to Seismic Events. Journal of Architectural Engineering, 2018, 24, .	0.8	34
352	Combining life cycle assessment and Building Information Modelling to account for carbon emission of building demolition waste: A case study. Journal of Cleaner Production, 2018, 172, 3154-3166.	4.6	151
353	Determination of optimum life span of container houses by using Neuro-Fuzzy methods. Energy, Ecology and Environment, 2018, 3, 39-47.	1.9	2
354	Summary of the Grouting Material for the Void Beneath Cement Concrete Pavement Slab. IOP Conference Series: Materials Science and Engineering, 2018, 382, 022096.	0.3	2
355	Comparison of the Applied Measures on the Simulated Scenarios for the Sustainable Building Construction through Carbon Footprint Emissions—Case Study of Building Construction in Serbia. Sustainability, 2018, 10, 4688.	1.6	4
356	Analysis of Embodied Energy of High-Rise Office Buildings in Hong Kong. , 2018, , .		1
357	Optimal Renovation Strategies for Education Buildings—A Novel BIM–BPM–BEM Framework. Sustainability, 2018, 10, 3287.	1.6	21
358	Advanced Statistical Models for Modeling Hot Water Consumption Using a Connected Boiler. , 2018, , .		2
359	Analysing the circular economy opportunities in the French construction sector related to the sustainable supply chain: a waste input-output analysis. International Journal of Supply Chain and Operations Resilience, 2018, 3, 143.	0.2	7
360	Dynamic Life Cycle Assessments of a Conventional Green Building and a Net Zero Energy Building: Exploration of Static, Dynamic, Attributional, and Consequential Electricity Grid Models. Environmental Science & Technology, 2018, 52, 11429-11438.	4.6	39
361	A Cradle to Handover Life Cycle Assessment of External Walls: Choice of Materials and Prognosis of Elements. Sustainability, 2018, 10, 2748.	1.6	20
362	Dataset on the patterns of electricity consumption in public universities in southwestern Nigeria. Data in Brief, 2018, 21, 1-7.	0.5	6
363	An operational methodology for applying dynamic Life Cycle Assessment to buildings. Building and Environment, 2018, 144, 611-621.	3.0	69
364	Benchmarks for environmental impact of housing in Europe: Definition of archetypes and LCA of the residential building stock. Building and Environment, 2018, 145, 260-275.	3.0	107

	Сітатіо	n Report	
#	Article	IF	CITATIONS
365	Embodied life cycle assessment comparison of single family residential houses considering the 1970s transition in construction industry: Atlanta case study. Building and Environment, 2018, 140, 55-67.	3.0	13
366	Life cycle energy consumption and greenhouse gas emissions of urban residential buildings in Guangzhou city. Journal of Cleaner Production, 2018, 194, 318-326.	4.6	63
367	2.30 Novel Building Materials. , 2018, , 980-1017.		3
368	An integrated framework for embodied energy quantification of buildings in China: A multi-regional perspective. Resources, Conservation and Recycling, 2018, 138, 183-193.	5.3	13
369	Life Cycle Assessment of an Academic Building. , 2018, , 295-315.		2
370	Assessing the Ecological Footprint of Ecotourism Packages: A Methodological Proposition. Resources, 2018, 7, 38.	1.6	13
371	Carbon Footprint Estimation Tool for Residential Buildings for Non-Specialized Users: OERCO2 Project. Sustainability, 2018, 10, 1359.	1.6	35
372	Quota-based carbon tracing model for construction processes in China. Journal of Cleaner Production, 2018, 200, 657-666.	4.6	19
373	Indicators for quantifying environmental building performance: A systematic literature review. Journal of Building Engineering, 2018, 19, 552-560.	1.6	50
374	Life cycle assessment (LCA) of double-skin façade (DSF) system with fiber-reinforced concrete for sustainable and energy-efficient buildings in the tropics. Building and Environment, 2018, 142, 327-341.	3.0	48
375	A bibliometric review of green building research 2000–2016. Architectural Science Review, 2019, 62, 74-88.	1.1	196
376	Life cycle energy assessment of university buildings in tropical climate. Journal of Cleaner Production, 2019, 239, 117930.	4.6	22
377	Rheology and buildability of sustainable cement-based composites containing micro-crystalline cellulose for 3D-printing. Journal of Cleaner Production, 2019, 239, 118054.	4.6	118
378	Whole building life cycle environmental impacts and costs: A sensitivity study of design and service decisions. Building and Environment, 2019, 163, 106316.	3.0	30
379	Impediments affecting a comprehensive emission assessment at the construction stage of a building. International Journal of Construction Management, 2019, , 1-11.	2.2	5
380	Parametric modelling and evolutionary optimization for cost-optimal and low-carbon design of high-rise reinforced concrete buildings. Advanced Engineering Informatics, 2019, 42, 100962.	4.0	71
381	A review of life cycle assessment of buildings using a systematic approach. Building and Environment, 2019, 162, 106290.	3.0	148
382	Life Cycle Assessment of an Office Building Based on Site-Specific Data. Energies, 2019, 12, 2588.	1.6	26

#	Article	IF	Citations
383	Assessing sustainability performance in the educational sector. A high school case study. Science of the Total Environment, 2019, 692, 465-478.	3.9	7
384	Life Cycle Analysis of Single Family Houses and Effects of Green Technologies on Environment. Proceedings (mdpi), 2019, 16, .	0.2	3
385	Factors Influence Embodied Energy and Embodied Carbon Value at Design Phase of Low Middle Class Apartment in Indonesia. IOP Conference Series: Earth and Environmental Science, 2019, 294, 012095.	0.2	3
386	Conventional versus modular construction methods: A comparative cradle-to-gate LCA for residential buildings. Energy and Buildings, 2019, 204, 109479.	3.1	112
387	Potential for the Recycled Aggregate Market. , 2019, , 585-601.		2
388	Environmental performance of hybrid rainwater-greywater systems in residential buildings. Resources, Conservation and Recycling, 2019, 144, 100-114.	5.3	30
389	Energy simulation and LCA for macro-scale analysis of eco-innovations in the housing stock. International Journal of Life Cycle Assessment, 2019, 24, 989-1008.	2.2	43
390	The effect of standardization of industries on life cycle embodied energy of residential buildings in Iran. Energy Efficiency, 2019, 12, 1529-1545.	1.3	4
391	Energy consumption and greenhouse gas emissions by buildings: A multi-scale perspective. Building and Environment, 2019, 151, 240-250.	3.0	106
392	Emissions. , 2019, , 263-297.		0
393	Inter-University Sustainability Benchmarking for Canadian Higher Education Institutions: Water, Energy, and Carbon Flows for Technical-Level Decision-Making. Sustainability, 2019, 11, 2599.	1.6	20
394	Comparative whole-building life cycle assessment of renovation and new construction. Building and Environment, 2019, 161, 106218.	3.0	80
395	Comparing the embodied carbon and energy of a mass timber structure system to typical steel and concrete alternatives for parking garages. Energy and Buildings, 2019, 199, 126-133.	3.1	51
396	LCA benchmarks for residential buildings in Northern Italy and Denmark – learnings from comparing two different contexts. Building Research and Information, 2019, 47, 833-849.	2.0	28
397	Evaluation of BIM energy performance and CO <sub>2</sub> emissions assessment tools: a case study in warm weather. Building Research and Information, 2019, 47, 787-812.	2.0	24
398	Life-cycle assessment and life-cycle cost analysis of decentralised rainwater harvesting, greywater recycling and hybrid rainwater-greywater systems. Journal of Cleaner Production, 2019, 229, 1211-1224.	4.6	43
399	Urban Design Toward More Holistic Systems: Improving Discipline Integration and Sustainability Evaluation. , 2019, , 321-345.		0
400	Operational carbon footprint prediction model for conventional tropical housing: a Malaysian prospective. International Journal of Environmental Science and Technology, 2019, 16, 7817-7826.	1.8	17

# ARTICLE

IF CITATIONS

401	Understanding Urban Ecology. , 2019, , .		8
402	Understanding the adoption and usage of data analytics and simulation among building energy management professionals: A nationwide survey. Building and Environment, 2019, 157, 139-164.	3.0	30
403	A multi-scenario life cycle impact comparison of operational energy supply techniques for an office building in Thailand. Energy and Buildings, 2019, 190, 172-182.	3.1	11
404	The case study of carbon emission in building construction process. IOP Conference Series: Earth and Environmental Science, 2019, 371, 022011.	0.2	3
405	Analysis of a single-family building life cycle – case study. IOP Conference Series: Earth and Environmental Science, 2019, 362, 012140.	0.2	1
406	Carbon Emissions of Hotels: The Case of the Sri Lankan Hotel Industry. Buildings, 2019, 9, 227.	1.4	8
407	Tracing the environmental impact origin within the existing building portfolio of prevailing building typologies. IOP Conference Series: Earth and Environmental Science, 2019, 352, 012065.	0.2	2
408	Assessing the life cycle CO2 emissions of reinforced concrete structures: Four cases from China. Journal of Cleaner Production, 2019, 210, 1496-1506.	4.6	63
409	Characterizing embodied energy accounting with a multi-dimensional framework: A study of China's building sector. Journal of Cleaner Production, 2019, 215, 154-164.	4.6	21
410	Life cycle recurrent embodied energy calculation of buildings: A review. Journal of Cleaner Production, 2019, 209, 731-754.	4.6	114
410	Life cycle recurrent embodied energy calculation of buildings: A review. Journal of Cleaner Production, 2019, 209, 731-754. Smart Materials Selection for Thermal Energy Efficient Architecture. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 11-21.	4.6 0.8	114 5
410 412 413	Life cycle recurrent embodied energy calculation of buildings: A review. Journal of Cleaner Production, 2019, 209, 731-754.Smart Materials Selection for Thermal Energy Efficient Architecture. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 11-21.Embodied and operational energy of rural dwellings in India. International Journal of Sustainable Energy, 2019, 38, 227-237.	4.6 0.8 1.3	114 5 7
<ul><li>410</li><li>412</li><li>413</li><li>414</li></ul>	Life cycle recurrent embodied energy calculation of buildings: A review. Journal of Cleaner Production, 2019, 209, 731-754.Smart Materials Selection for Thermal Energy Efficient Architecture. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 11-21.Embodied and operational energy of rural dwellings in India. International Journal of Sustainable Energy, 2019, 38, 227-237.Life Cycle Assessment in Buildings: An Overview of Methodological Approach. , 2020, , 462-475.	4.6 0.8 1.3	114 5 7 0
<ul> <li>410</li> <li>412</li> <li>413</li> <li>414</li> <li>415</li> </ul>	Life cycle recurrent embodied energy calculation of buildings: A review. Journal of Cleaner Production, 2019, 209, 731-754.Smart Materials Selection for Thermal Energy Efficient Architecture. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 11-21.Embodied and operational energy of rural dwellings in India. International Journal of Sustainable Energy, 2019, 38, 227-237.Life Cycle Assessment in Buildings: An Overview of Methodological Approach. , 2020, , 462-475.Interaction of life-cycle phases in a probabilistic life-cycle framework for civil infrastructure system sustainability. Sustainable and Resilient Infrastructure, 2020, 5, 289-310.	4.6 0.8 1.3 1.7	114 5 7 0 9
<ul> <li>410</li> <li>412</li> <li>413</li> <li>414</li> <li>415</li> <li>416</li> </ul>	Life cycle recurrent embodied energy calculation of buildings: A review. Journal of Cleaner Production, 2019, 209, 731-754.Smart Materials Selection for Thermal Energy Efficient Architecture. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 11-21.Embodied and operational energy of rural dwellings in India. International Journal of Sustainable Energy, 2019, 38, 227-237.Life Cycle Assessment in Buildings: An Overview of Methodological Approach. , 2020, , 462-475.Interaction of life-cycle phases in a probabilistic life-cycle framework for civil infrastructure system sustainability. Sustainable and Resilient Infrastructure, 2020, 5, 289-310.(Sprayed) concrete production in life cycle assessments: a systematic literature review. International Journal of Life Cycle Assessment, 2020, 25, 188-207.	4.6 0.8 1.3 1.7 2.2	<ul> <li>114</li> <li>5</li> <li>7</li> <li>0</li> <li>9</li> <li>10</li> </ul>
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<ul> <li>410</li> <li>412</li> <li>413</li> <li>414</li> <li>415</li> <li>416</li> <li>417</li> <li>418</li> </ul>	Life cycle recurrent embodied energy calculation of buildings: A review. Journal of Cleaner Production, 2019, 209, 731-754.         Smart Materials Selection for Thermal Energy Efficient Architecture. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 11-21.         Embodied and operational energy of rural dwellings in India. International Journal of Sustainable Energy, 2019, 38, 227-237.         Life Cycle Assessment in Buildings: An Overview of Methodological Approach. , 2020, , 462-475.         Interaction of life-cycle phases in a probabilistic life-cycle framework for civil infrastructure system sustainability. Sustainable and Resilient Infrastructure, 2020, 5, 289-310.         (Sprayed) concrete production in life cycle assessments: a systematic literature review. International Journal of Life Cycle Assessment, 2020, 25, 188-207.         Embodied carbon assessment of residential housing at urban scale. Renewable and Sustainable Energy Reviews, 2020, 117, 109470.         Deciphering the link between procurement systems and sustainable building success in Hong Kong. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2020, 173, 217-227.	4.6 0.8 1.3 1.7 2.2 8.2 0.4	<ol> <li>114</li> <li>5</li> <li>7</li> <li>0</li> <li>9</li> <li>10</li> <li>21</li> <li>1</li> </ol>

#	Article	IF	CITATIONS
420	Sustainability performance of hotel buildings in the Himalayan region. Journal of Cleaner Production, 2020, 250, 119538.	4.6	9
421	Life-cycle environmental assessment of energy-retrofit strategies on a campus scale. Building Research and Information, 2020, 48, 659-680.	2.0	16
422	Dynamic life cycle assessment modelling of a NZEB building. Energy, 2020, 191, 116489.	4.5	58
423	An innovative straw bale wall package for sustainable buildings: experimental characterization, energy and environmental performance assessment. Energy and Buildings, 2020, 208, 109636.	3.1	44
424	Whole Building Life Cycle Assessment of a Living Building. Journal of Architectural Engineering, 2020, 26, .	0.8	13
425	A 5D simulation method on post-earthquake repair process of buildings based on BIM. Earthquake Engineering and Engineering Vibration, 2020, 19, 541-560.	1.1	10
426	Projecting the carbon footprint of tourist accommodation at the 2030 FIFA World CupTM. Cleaner and Responsible Consumption, 2020, 1, 100004.	1.6	11
427	UAV + BIM: Incorporation of Photogrammetric Techniques in Architectural Projects with Building Information Modeling Versus Classical Work Processes. Remote Sensing, 2020, 12, 2329.	1.8	25
428	An Epitome of Building Floor Systems by Means of LCA Criteria. Sustainability, 2020, 12, 5442.	1.6	6
429	A new method for calculating the embodied carbon emissions from buildings in schematic design: Taking "building element―as basic unit. Building and Environment, 2020, 185, 107306.	3.0	40
430	Carbon Footprint of Dwelling Construction in Romania and Spain. A Comparative Analysis with the OERCO2 Tool. Sustainability, 2020, 12, 6745.	1.6	12
431	Retrofitting High-Rise Residential Building in Cold and Severe Cold Zones of China—A Deterministic Decision-Making Mechanism. Sustainability, 2020, 12, 5831.	1.6	5
432	Investigation of maintenance and replacement of materials in building LCA. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032027.	0.2	8
433	Design for Dematerialisation: examining an approach for reducing the life cycle energy requirements of residential buildings. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032049.	0.2	0
434	A Review of "Green Building―Regulations, Laws, and Standards in Latin America. Buildings, 2020, 10, 188.	1.4	9
435	Visualizing the research of embodied energy and environmental impact research in the building and construction field: A bibliometric analysis. Developments in the Built Environment, 2020, 3, 100010.	2.0	20
436	The application of life cycle assessment for the optimization of pipe materials of building water supply and drainage system. Sustainable Cities and Society, 2020, 60, 102267.	5.1	18
437	Sustainable Construction - Environmental Impacts Assessment of Architectural Elements and Building Services. International Journal of Engineering Research in Africa, 2020, 47, 77-83.	0.7	1

#	Article	IF	CITATIONS
438	Life cycle assessment of the building industry: An overview of two decades of research (1995–2018). Energy and Buildings, 2020, 219, 109917.	3.1	101
439	Benchmarking of Water, Energy, and Carbon Flows in Academic Buildings: A Fuzzy Clustering Approach. Sustainability, 2020, 12, 4422.	1.6	13
440	Assessment of energy and emission performance of a green scientific research building in Beijing, China. Energy and Buildings, 2020, 224, 110248.	3.1	13
441	Addressing temporal considerations in life cycle assessment. Science of the Total Environment, 2020, 743, 140700.	3.9	61
442	Evaluation of the Environmental Performance of Residential Building Envelope Components. Energies, 2020, 13, 174.	1.6	17
443	Assessment on Embodied Energy of Non-Load Bearing Walls for Office Buildings. Buildings, 2020, 10, 79.	1.4	6
444	A Building Life-Cycle Embodied Performance Index—The Relationship between Embodied Energy, Embodied Carbon and Environmental Impact. Energies, 2020, 13, 1905.	1.6	17
445	Temporal and Spatial Variability of Carbon Emission Intensity of Urban Residential Buildings: Testing the Effect of Economics and Geographic Location in China. Sustainability, 2020, 12, 2695.	1.6	15
446	Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070. Applied Energy, 2020, 266, 114848.	5.1	427
447	Life cycle environmental impact assessment to manage and optimize construction waste using Building Information Modeling (BIM). International Journal of Construction Management, 2021, 21, 784-801.	2.2	51
448	A cost-effective building retrofit decision-making model – Example of China's temperate and mixed climate zones. Journal of Cleaner Production, 2021, 280, 124370.	4.6	21
449	The carbon footprint of a UK University during the COVID-19 lockdown. Science of the Total Environment, 2021, 756, 143964.	3.9	57
450	The effect of energy-saving options on environmental performance of a building: a combination of energy audit–life cycle assessment for a university building. Environmental Science and Pollution Research, 2021, 28, 8822-8832.	2.7	10
451	Sustainable building retrofit model for high-rise, high-density city: a case in Hong Kong. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2021, 174, 69-82.	0.4	2
452	Carbon Footprint Estimation for Academic Building in India. Environmental Footprints and Eco-design of Products and Processes, 2021, , 55-70.	0.7	3
453	Ecological Footprint of the Life Cycle of Buildings. Environmental Footprints and Eco-design of Products and Processes, 2021, , 1-39.	0.7	3
454	Use of Renewable Energy in Buildings. , 0, , .		4
455	Review on building life cycle assessment from the perspective of structural design. Journal of Asian Architecture and Building Engineering, 2021, 20, 689-705.	1.2	5

# 456	ARTICLE A quantitative assessment of greenhouse gas (GHG) emissions from conventional and modular construction: A case of developing country. Journal of Cleaner Production, 2021, 294, 126210.	IF 4.6	CITATIONS
457	Achieving an Effective Energy Sustainability Strategy. , 2021, , .		0
458	Influence of technical and electrical equipment in life cycle assessments of buildings: case of a laboratory and research building. International Journal of Life Cycle Assessment, 2021, 26, 852-863.	2.2	21
459	Investigating the embodied energy and carbon of buildings: A systematic literature review and meta-analysis of life cycle assessments. Renewable and Sustainable Energy Reviews, 2021, 143, 110935.	8.2	64
460	Utilization of post-consumer carpet calcium carbonate (PC4) from carpet recycling as a mineral resource in concrete. Resources, Conservation and Recycling, 2021, 169, 105496.	5.3	5
461	Mechanical Behavior of CCA Wall Infilled Steel Frames with Preset Vertical Slits. KSCE Journal of Civil Engineering, 2021, 25, 3852-3865.	0.9	1
462	Component-level embodied carbon database for landscape hard works in Taiwan. Environment, Development and Sustainability, 2022, 24, 4918-4941.	2.7	3
463	Construction stakeholders' perceived benefits and barriers for environment-friendly modular construction in a hospitality centric environment. International Journal of Industrialized Construction, 2021, 2, 15-29.	2.3	2
464	Investigating Spatiotemporal Variability of Water, Energy, and Carbon Flows: A Probabilistic Fuzzy Synthetic Evaluation Framework for Higher Education Institutions. Environments - MDPI, 2021, 8, 72.	1.5	2
465	Life cycle embodied energy analysis of higher education buildings: A comparison between different LCI methodologies. Renewable and Sustainable Energy Reviews, 2021, 144, 110957.	8.2	31
466	Environmental Assessment of University Campuses: The Case of the University of Navarra in Pamplona (Spain). Sustainability, 2021, 13, 8588.	1.6	7
467	Net zero energy barns for industrial egg production: An effective sustainable intensification strategy?. Journal of Cleaner Production, 2021, 316, 128014.	4.6	8
468	The impacts of restoration and reconstruction of a heritage building on life cycle energy consumption and related carbon dioxide emissions. Energy and Buildings, 2021, 253, 111507.	3.1	22
469	Relational pre-impact assessment of conventional housing features and carbon footprint for achieving sustainable built environment. Environment, Development and Sustainability, 0, , 1.	2.7	1
470	Mapping the scientific research of the life cycle assessment in the construction industry: A scientometric analysis. Building and Environment, 2021, 204, 108086.	3.0	21
471	A structural performance-based environmental impact assessment framework for natural hazard loads. Journal of Building Engineering, 2021, 43, 102908.	1.6	2
472	Service life of building envelopes: A critical literature review. Journal of Building Engineering, 2021, 44, 102646.	1.6	23
473	Factorial Models. Green Energy and Technology, 2016, , 263-324.	0.4	1

#	Article	IF	CITATIONS
475	Life cycle assessment of energy efficient buildings. Energy Reports, 2020, 6, 270-285.	2.5	18
476	Assessment of users' responses to air change rates in free running office buildings. Sustainable Buildings, 2017, 2, 1.	0.7	4
477	Cities as carbon sinks—classification of wooden buildings. Environmental Research Letters, 2020, 15, 094076.	2.2	60
478	The Environmental Profile of Wood in the Building Industry Today: Comments on the Results of Some LCA Studies. American Journal of Civil Engineering and Architecture, 2013, 1, 122-128.	0.1	3
479	Life cycle carbon emission assessment of a multi-purpose university building: A case study of Sri Lanka. Frontiers of Engineering Management, 2018, .	3.3	9
480	Indoor and outdoor air quality monitoring in hemp house — Case study. Pollack Periodica, 2011, 6, 63-72.	0.2	2
481	Método para quantificação do consumo energético no ciclo de vida de equipamentos hidrossanitários. Ambiente ConstruÃdo, 2012, 12, 57-73.	0.2	3
483	The ecological footprint of building construction. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	24
486	RESEARCH OF THE ECOLOGICAL ENVIRONMENT IN SHANGHAI WORLD EXPO PARK. Journal of Environmental Engineering and Landscape Management, 2018, 26, 177-189.	0.4	2
487	INFLUENCING PARAMETERS OF THE LIFE CYCLE COST-ENERGY RELATIONSHIP OF BUILDINGS. Journal of Green Building, 2018, 13, 103-121.	0.4	13
488	USING LIFE CYCLE ASSESSMENT METHODS TO GUIDE ARCHITECTURAL DECISION-MAKING FOR SUSTAINABLE PREFABRICATED MODULAR BUILDINGS. Journal of Green Building, 2012, 7, 151-170.	0.4	48
489	Building Sustainable Score (BSS)—A Hybrid Process Approach for Sustainable Building Assessment in China. Journal of Power and Energy Engineering, 2013, 01, 58-62.	0.3	7
490	Creation of Zero CO <sub>2</sub> Emissions Residential Buildings due to Operating and Embodied Energy Use on the Island of Crete, Greece. Open Journal of Energy Efficiency, 2017, 06, 141-154.	0.6	5
492	Life cycle assessment of energy retrofit strategies for an existing residential building in Turkey. A Z ITU Journal of Faculty of Architecture, 2016, 13, 143-156.	0.1	5
493	Improving the environmental sustainability of hotel buildings through the analysis of its life cycle. Case study: Balearic Islands. Renewable Energy and Power Quality Journal, 2008, 1, 709-715.	0.2	0
494	Combining Building Renovation and Ground Source Heat Pump Installations for the Reduction of Greenhouse Gas Emissions: A Case Study in Vaasa Finland. Journal of Green Building, 2009, 4, 146-168.	0.4	1
495	An Analysis of the Benfit on Green Risk in Construction Projects. Journal of Environmental Protection, 2010, 01, 324-329.	0.3	0
496	Projeto de edificações com apelo sustentável: elementos para a construção de um sistema de apoio Ã decisão. Revista Produção Online, 2010, 10, 479. 	0.1	2

#	Article	IF	CITATIONS
497	State of the Art Study - How is Environmental Performance Measured for Buildings/Constructions?. , 2011, , 141-152.		0
498	Life Cycle Assessment of Energy Systems in Complex Buildings. Green Energy and Technology, 2013, , 215-235.	0.4	Ο
502	Desempenho ambiental de edificações: avaliação de ciclo de vida em empreendimento residencial. , 0, , .		1
503	Electrical Design for Medical Center. Iarjset, 2016, 3, 69-72.	0.0	0
504	The Sustainable Building Process. , 2016, , 43-68.		1
505	Comparative review of assessment methodologies of building embodied energy. , 2018, , .		0
507	Managing Embodied Carbon in Africa Through a Carbon Trading Scheme. , 2018, , 367-392.		0
508	Key Trends and Application of Sustainability Rating Systems in the Hungarian Office Building Segment. European Scientific Journal, 2018, 14, 216.	0.0	0
509	Building Lifecycle Sustainability Analysis. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-9.	0.0	0
510	Life-Cycle Assessment of Construction Materials: Analysis of Environmental Impacts and Recommendations of Eco-efficient Management Practices. , 2019, , 2337-2372.		0
511	Análisis del ciclo de vida de un edificio residencial en Colombia. Inventum IngenierÃa, TecnologÃa E Investigación, 2019, 14, 3-14.	0.0	0
512	Building Lifecycle Sustainability Analysis. Encyclopedia of the UN Sustainable Development Goals, 2020, , 13-21.	0.0	0
513	Influence of methodological choices on maintenance and replacement in building LCA. International Journal of Life Cycle Assessment, 2021, 26, 2109-2126.	2.2	8
514	Advances in the research of building energy saving. Energy and Buildings, 2022, 254, 111556.	3.1	37
515	Life-cycle assessment of non-domestic building stocks: A meta-analysis of current modelling methods. Renewable and Sustainable Energy Reviews, 2022, 153, 111743.	8.2	5
516	Environmental impact analysis of five family houses in Eastern Slovakia through a life cycle assessment. Selected Scientific Papers: Journal of Civil Engineering, 2019, 14, 81-92.	0.1	2
517	The Embodied Impact of Existing Building Stock. Impact of Meat Consumption on Health and Environmental Sustainability, 2020, , 1-31.	0.4	0
518	Dynamic modeling of future climatic and technological trends on life cycle global warming impacts and occupant satisfaction in US office buildings. Energy and Buildings, 2022, 256, 111705.	3.1	7

#	Article	IF	CITATIONS
519	Sustainability Identification of Steel and Concrete Construction Frames with Respect to Triple Bottom Line. Buildings, 2021, 11, 565.	1.4	5
520	Environmental Impacts and Benefits of the End-of-Life of Building Materials: Database to Support Decision Making and Contribute to Circularity. Sustainability, 2021, 13, 12659.	1.6	6
521	Regional environmental life cycle consequences of material substitutions: The case of increasing wood structures for non-residential buildings. Journal of Cleaner Production, 2021, 328, 129671.	4.6	21
522	Sustainable early design exploration of mid-rise office buildings with different subsystems using comparative life cycle assessment. Journal of Building Engineering, 2022, 48, 104004.	1.6	9
523	Machine learning in building energy management: A critical review and future directions. Frontiers of Engineering Management, 2022, 9, 239-256.	3.3	5
524	Life Cycle Assessment Meeting Energy Standard Performance: An Office Building Case Study. Buildings, 2022, 12, 157.	1.4	4
525	Carbon footprint assessment of residential buildings, a review and a case study in Turkey. Journal of Cleaner Production, 2022, 340, 130691.	4.6	23
526	Economic impact assessment indicators of circular economy in a decentralised circular water system — Case of eco-touristic facility. Science of the Total Environment, 2022, 822, 153602.	3.9	13
527	Life Cycle Assessment of Industrial Building Construction and Recovery Potential. Case Studies in Seville. Processes, 2022, 10, 76.	1.3	6
528	Critical Review of Sustainability, Resilience, and Their Unifying Assessments for Civil Infrastructure Systems. , 2022, , .		0
529	Modular multi-storey construction with cross-laminated timber: Life cycle environmental implications. Wood Material Science and Engineering, 2023, 18, 525-539.	1.1	4
530	Circular Environmental Impact of Recycled Building Materials and Residential Renewable Energy. Sustainability, 2022, 14, 4039.	1.6	9
531	Environmental performance of a hybrid rainwater harvesting and greywater reuse system: A case study on a high water consumption household in Colombia. Journal of Cleaner Production, 2022, 345, 131125.	4.6	15
532	Water conservation potential within higher education institutions: lessons from a Brazilian university. Urban Water Journal, 2023, 20, 1429-1437.	1.0	0
533	Ascertaining the Inconsistency of AEC Students' Perceptions and Behaviors Regarding Sustainability by Mixed Methods. International Journal of Environmental Research and Public Health, 2021, 18, 13274.	1.2	0
534	Integrating Environmental and Economic Perspectives in Building Design. Sustainability, 2022, 14, 4637.	1.6	6
535	Avaliação de impacto ambiental com foco na energia embutida. , 0, , .		0
536	Sustainability in Building and Construction: LCA of 21 Mural Paints. Key Engineering Materials, 0, 919, 227-235.	0.4	0

#	Article	IF	CITATIONS
537	Shedding light on the efforts into the rehabilitation of a major culprit of carbon emissions: A scientometric analysis of net-zero in the built environment sector. Energy and Buildings, 2022, 266, 112119.	3.1	3
538	An Emergy-based Approach to Evaluate the Effectiveness of Integrating IoT-based Sensing Systems into Smart Buildings. Sustainable Energy Technologies and Assessments, 2022, 52, 102225.	1.7	11
540	THE EFFECT OF RESIDENTIAL DESIGN ON HUMAN HEALTH IN THE COVID-19 LOCKDOWN PROCESS: THE CASE OF STUDY BOLU/TURKEY. International Journal of Research -GRANTHAALAYAH, 2022, 10, 93-109.	0.1	0
541	Assessing the anthropogenic carbon emission of wooden construction: an LCA study. Building Research and Information, 2023, 51, 138-157.	2.0	6
542	Life Cycle Assessment of Embodied Carbon and Strategies for Decarbonization of a High-Rise Residential Building. Buildings, 2022, 12, 1203.	1.4	9
543	Quantitative study on external benefits of prefabricated buildings: From perspectives of economy, environment, and society. Sustainable Cities and Society, 2022, 86, 104132.	5.1	23
544	Embodied and Operational Energy of a Case Study Villa in UAE with Sensitivity Analysis. Buildings, 2022, 12, 1469.	1.4	7
545	Embodied Carbon Emissions of the Residential Building Stock in the United States and the Effectiveness of Mitigation Strategies. Climate, 2022, 10, 135.	1.2	5
546	Life-Cycle Assessment of Contemporary and Classical Seismic Retrofitting Approaches Applied to a Reinforced Concrete Building in Israel. Buildings, 2022, 12, 1854.	1.4	0
547	Comprehensive assessment of land use carbon emissions of a coal resource-based city, China. Journal of Cleaner Production, 2022, 379, 134706.	4.6	10
548	Impact of air barriers application in LCA and LCC of naturally ventilated dwellings in mild climate regions. Energy and Buildings, 2023, 279, 112667.	3.1	3
549	Life cycle assessment of the inclusion of phase change materials in lightweight buildings. Journal of Energy Storage, 2022, 56, 105903.	3.9	10
550	What we learn is what we earn from sustainable and circular construction. Journal of Cleaner Production, 2023, 382, 135183.	4.6	5
551	Comparison of Green Building Rating Systems from LCA Perspective. IOP Conference Series: Earth and Environmental Science, 2022, 1101, 062019.	0.2	1
552	The pandemic readiness assessment of building design andÂengineering service-related legislation in Kazakhstan andÂthe EU. Engineering, Construction and Architectural Management, 2022, ahead-of-print,	1.8	0
553	Finite element analyses on hysteretic behavior of steel frames infilled with AAC masonry wall with circular-arc opening <sup>s</sup> . Journal of Asian Architecture and Building Engineering, 2023, 22, 2889-2902.	1.2	1
554	Prediction of energy consumption in campus buildings using long short-term memory. AEJ - Alexandria Engineering Journal, 2023, 67, 65-76.	3.4	10
555	Green construction for low-carbon cities: a review. Environmental Chemistry Letters, 2023, 21, 1627-1657.	8.3	52

#	Article	IF	CITATIONS
556	Assessment of Energy, Environmental and Economic Costs of Buildings' Thermal Insulation–Influence of Type of Use and Climate. Buildings, 2023, 13, 279.	1.4	4
557	Principles of the life cycle assessment for emerging energy storage technologies. , 2023, , 365-400.		Ο
558	Comparative life cycle assesment (LCA) and life cycle cost analysis (LCCA) of precast and cast–in–place buildings in United States. Journal of Building Engineering, 2023, 67, 105921.	1.6	11
559	Comparative study of greenhouse gas emission calculations and the environmental impact in the life cycle assessment of buildings in China, Finland, and the United States. Journal of Building Engineering, 2023, 70, 106396.	1.6	4
560	Analysis of environmental consequences occurring in the life cycle of a retail facility. Budownictwo I Architektura, 2022, 21, 005-012.	0.1	1
561	Conceptual framework for sustainable construction. Architecture, Structures and Construction, 2023, 3, 129-141.	0.7	1
562	Adaptive Thinking in Cities: Urban Continuity within Built Environments. Climate, 2023, 11, 54.	1.2	3
563	Life-Cycle Assessment of LEED-CI v4 Projects in Shanghai, China: A Case Study. Sustainability, 2023, 15, 5722.	1.6	7
570	Environmental Sustainability in Sport. SpringerBriefs in Applied Sciences and Technology, 2023, , 47-75.	0.2	0
571	Chapter 10: Sustainable Construction: The Cutting Edge and Emerging Challenges. , 2016, , .		1
587	Minimisation of embodied energy in three-dimensional steel framed structures using two optimisation techniques. AIP Conference Proceedings, 2024, , .	0.3	0