CITATION REPORT List of articles citing

Life cycle assessment in buildings: State-of-the-art and simplified LCA methodology as a complement for building certification

DOI: 10.1016/j.buildenv.2009.05.001 Building and Environment, 2009, 44, 2510-2520.

Source: https://exaly.com/paper-pdf/46149379/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
492	Application of Life Cycle Assessment (LCA) and extenics theory for building energy conservation assessment. 2009 , 34, 1870-1879		48
491	Energy-saving policies and low-energy residential buildings: an LCA case study to support decision makers in Piedmont (Italy). <i>International Journal of Life Cycle Assessment</i> , 2010 , 15, 652-665	4.6	92
490	Life Cycle Assessment of the inclusion of phase change materials (PCM) in experimental buildings. 2010 , 42, 1517-1523		101
489	Sustainability of Urban Infrastructures. Sustainability, 2010 , 2, 2950-2964	3.6	24
488	Construal-level theory of psychological distance. 2010 , 117, 440-63		2951
487	Applying LCA and fuzzy AHP to evaluate building energy conservation. 2011 , 28, 123-141		22
486	Eco-efficient Construction and Building Materials. 2011,		40
485	Sustainable Buildings: An Ever Evolving Target. Sustainability, 2011, 3, 443-464	3.6	47
484	Exergy analysis combined with LCA for building envelope energy efficiency retrofit. 2011 , 8, 379		4
483	Basic actions to improve energy efficiency in commercial buildings in operation. 2011 , 43, 3106-3111		42
482	In search of better energy performance in the Portuguese buildings The case of the Portuguese regulation. 2011 , 39, 7666-7683		40
481	Economic and environmental analysis of standard, high efficiency, rainwater flushed, and composting toilets. 2011 , 92, 419-28		48
480	Life cycle assessment in buildings: The ENSLIC simplified method and guidelines. 2011 , 36, 1900-1907		110
479	Toward a European Eco-label brand for residential buildings: Holistic or by-components approaches?. 2011 , 36, 1884-1892		45
478	Life cycle assessment of building materials: Comparative analysis of energy and environmental impacts and evaluation of the eco-efficiency improvement potential. <i>Building and Environment</i> , 2011 , 46, 1133-1140	6.5	702
477	A life cycle approach to Green Public Procurement of building materials and elements: A case study on windows. 2011 , 36, 2473-2482		94
476	New indices to assess building energy efficiency at the use stage. 2011 , 43, 476-484		33

475	Development of a methodology for life cycle building energy ratings. 2011 , 39, 3779-3788		50
474	The development of environmental load evaluation system of a standard Korean apartment house. 2011 , 15, 1239-1249		30
473	The development of apartment house life cycle CO2 simple assessment system using standard apartment houses of South Korea. 2011 , 15, 1454-1467		68
472	Improving Uncertainty Estimate of Embodied-Energy of Construction Materials Using Analytical Hierarchical Process in Weighted DQI Method. 2012 ,		
471	Optimization of construction solutions for green building. 2012 , 7, 33-44		5
470	Multi-objective building envelope optimization for life-cycle cost and global warming potential. 2012 , 193-200		7
469	Assessment of the environmental performance of buildings: A critical evaluation of the influence of technical building equipment on residential buildings. <i>International Journal of Life Cycle Assessment</i> , 2012 , 17, 1116-1130	4.6	100
468	A conceptual framework for future-proofing the energy performance of buildings. 2012 , 47, 145-155		42
467	Life cycle assessment approach for the optimization of sustainable building envelopes: An application on solar wall systems. <i>Building and Environment</i> , 2012 , 58, 278-288	6.5	82
466	Stabilized rammed earth incorporating PCM: Optimization and improvement of thermal properties and Life Cycle Assessment. 2012 , 30, 461-470		21
465	Complexity Question in Urban Systems Design. 2012 , 01,		
464	Estudio del flujo energEico en el ciclo de vida de una vivienda y su implicancia en las emisiones de gases de efecto invernadero, durante la fase de construcciEi Caso Estudio: Vivienda TipologEi Social. RegiEi del BiobEi, Chile. 2012 , 11, 125-145		14
463	Energy Costs of Energy Savings in Buildings: A Review. Sustainability, 2012, 4, 1711-1732	3.6	8
462	An AHP-weighted aggregated data quality indicator (AWADQI) approach for estimating embodied energy of building materials. <i>International Journal of Life Cycle Assessment</i> , 2012 , 17, 764-773	4.6	23
461	Evaluation of whole life cycle assessment for heritage buildings in Australia. <i>Building and Environment</i> , 2012 , 47, 138-149	6.5	69
460	The life-cycle assessment of a single-storey retail building in Canada. <i>Building and Environment</i> , 2012 , 49, 212-226	6.5	70
459	Life-cycle assessment of residential buildings in three different European locations, basic tool. <i>Building and Environment</i> , 2012 , 51, 395-401	6.5	105
458	Energy and environmental assessment of two high energy performance residential buildings. <i>Building and Environment</i> , 2012 , 51, 276-284	6.5	69

457	Environmental impacts of the UK residential sector: Life cycle assessment of houses. <i>Building and Environment</i> , 2012 , 54, 86-99	6.5	180
456	Evaluation of the environmental impact of experimental cubicles using Life Cycle Assessment: A highlight on the manufacturing phase. 2012 , 92, 534-544		54
455	Methodology of CO2 emission evaluation in the life cycle of office building falldes. 2012 , 33, 41-47		39
454	Life-cycle assessment of a house with alternative exterior walls: Comparison of three impact assessment methods. 2012 , 47, 572-583		152
453	Climate change influence on building lifecycle greenhouse gas emissions: Case study of a UK mixed-use development. 2012 , 48, 112-126		30
452	Comparative life cycle assessment of thermal energy storage systems for solar power plants. 2012 , 44, 166-173		112
451	LCA application in the optimum design of high rise steel structures. 2012 , 16, 3146-3153		27
450	Policy measures to overcome barriers to energy renovation of existing buildings. 2012 , 16, 3939-3947		65
449	High thermal performance composite PCMs loading xGnP for application to building using radiant floor heating system. 2012 , 101, 51-56		73
448	An audit of life cycle energy analyses of buildings. 2013 , 39, 43-54		35
447	Application of life-cycle assessment to early stage building design for reduced embodied environmental impacts. <i>Building and Environment</i> , 2013 , 60, 81-92	6.5	328
446	Evaluation of the environmental impact of experimental buildings with different constructive systems using Material Flow Analysis and Life Cycle Assessment. 2013 , 109, 544-552		58
445	Optimization of three new compositions of stabilized rammed earth incorporating PCM: Thermal properties characterization and LCA. 2013 , 47, 872-878		29
444	Life cycle assessment in the construction sector: A review. 2013 , 26, 379-388		279
443	Life Cycle Assessment of experimental cubicles including PCM manufactured from natural resources (esters): A theoretical study. 2013 , 51, 398-403		49
442	Life Cycle Assessment of alveolar brick construction system incorporating phase change materials (PCMs). 2013 , 101, 600-608		58
441	Application of PCM thermal energy storage system to reduce building energy consumption. 2013 , 111, 279-288		117
440	LCA case study. Part 1: cradle-to-grave environmental footprint analysis of composites and stainless steel I-beams. <i>International Journal of Life Cycle Assessment</i> , 2013 , 18, 208-217	4.6	21

(2013-2013)

439	A hybrid Data Quality Indicator and statistical method for improving uncertainty analysis in LCA of complex system happlication to the whole-building embodied energy analysis. <i>Journal of Cleaner Production</i> , 2013 , 43, 166-173	3 77
438	Life cycle carbon dioxide assessment tool for buildings in the schematic design phase. 2013, 61, 275-287	58
437	Refurbishment decision support tools: A review from a Portuguese user perspective. 2013 , 49, 425-447	21
436	From the new European Standards to an environmental, energy and economic assessment of building assemblies from cradle-to-cradle (3E-C2C). 2013 , 64, 199-208	52
435	Life cycle analysis in the construction sector: Guiding the optimization of conventional Italian buildings. 2013 , 64, 73-89	208
434	Life Cycle Assessment of a passive house in a seismic temperate zone. 2013 , 64, 463-472	67
433	Decision support model for one-way floor slab design: A sustainable approach. <i>Automation in Construction</i> , 2013 , 35, 460-470	19
432	Energy certification of existing office buildings: Analysis of two case studies and qualitative reflection. <i>Sustainable Cities and Society</i> , 2013 , 9, 81-95	1 10
431	Life Cycle Assessment of a Building Integrated Concentrated Photovoltaic scheme. 2013, 111, 505-514	82
430	Proposal of a multi-objective optimisation of product life cycle costs and environmental impacts. 2013 , 6, 381	5
429	Use of LCA as a Tool for Building Ecodesign. A Case Study of a Low Energy Building in Spain. 2013 , 6, 3901-3921	40
428	Life Cycle Assessment: A Comparison of Ceramic Brick Inventories to Subsidize the Development of Databases in Brazil. 2013 , 431, 370-377	7
427	Life Cycle Assessment of Green Buildings: A Case Study in China. 2013,	
426	Retrofit versus new-build house using life-cycle assessment. 2013 , 166, 122-137	10
425	The relationship between material service life and the life cycle energy of contemporary residential buildings in Australia. 2013 , 56, 252-261	19
424	Future-proofed energy design for dwellings: Case studies from England and application to the Code for Sustainable Homes. 2013 , 34, 9-22	3
423	Life cycle assessment (LCA) aspects of concrete. 2013 , 45-80	10
422	In-situ test for RC frame structure lightly destroyed by the 5.12 great earthquake. 2013 , 79-86	2

421	Multicriteria Decision Analysis of Material Selection of High Energy Performance Residential Building. 2013 , 8, 103-114		2
420	Sustainable Development and Green Buildings. 2013 , 64, 45-53		37
419	Building Energy Consumption in Malaysia: An Overview. 2014 , 70,		26
418	Carbon footprint and embodied energy consumption assessment of building construction works in Western Australia. 2014 , 3, 179-186		76
417	Exergy Analysis of Concentrated Solar CHP System for Building Scale Utilization. 2014 , 1008-1009, 35-39		3
416	Post-occupancy life cycle energy assessment of a residential building in Australia. 2014 , 57, 114-124		29
415	A real-time recording model of key indicators for energy consumption and carbon emissions of sustainable buildings. 2014 , 14, 8465-84		4
414	Smart-ECO Buildings towards 2020/2030. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , o.	4	
413	Land use impact assessment in the construction sector: an analysis of LCIA models and case study application. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 1799-1809	6	22
412	The Measurement Model and its Application of the Green Building Life-Cycle Carbon Emissions. 2014 , 641-642, 987-993		
411	Life-cycle impact @radle to cradle@of building assemblies. 2014 , 167, 53-63		10
410	Life cycle assessment (LCA) and life cycle energy analysis (LCEA) of buildings and the building sector: A review. 2014 , 29, 394-416		739
409	Life cycle cost analysis of the UK housing stock. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 174-193	6	19
408	The past, present and future of carbon labelling for construction materials IA review. <i>Building and Environment</i> , 2014 , 77, 160-168	5	52
407	Thermodynamic investigation of building integrated energy efficiency for building retrofit. 2014 , 77, 139-148		13
406	Development of building materials embodied greenhouse gases assessment criteria and system (BEGAS) in the newly revised Korea Green Building Certification System (G-SEED). 2014 , 35, 410-421		33
405	The convergence of life cycle assessment and nearly zero-energy buildings: The case of Germany. 2014 , 76, 551-557		68
404	A decision-making LCA for energy refurbishment of buildings: Conditions of comfort. 2014 , 70, 333-342		46

(2015-2014)

403	Neighborhood sustainability assessment in action: Cross-evaluation of three assessment systems and their cases from the US, the UK, and Japan. <i>Building and Environment</i> , 2014 , 72, 243-258	6.5	110
402	Life cycle assessment (LCA) of sustainable building materials: an overview. 2014 , 38-62		23
401	Visualization of the Modeled Degradation of Building Flooring Systems in Building Maintenance. 2014 , 29, 18-30		11
400	Development of a scale of building construction systems according to CO 2 emissions in the use stage of their life cycle. <i>Building and Environment</i> , 2014 , 82, 618-627	6.5	16
399	Life cycle assessment (LCA) of the building sector: strengths and weaknesses. 2014 , 63-83		8
398	Integrated life-cycle assessment and thermal dynamic simulation of alternative scenarios for the roof retrofit of a house. <i>Building and Environment</i> , 2014 , 81, 204-215	6.5	53
397	On the development of multi-linear regression analysis to assess energy consumption in the early stages of building design. 2014 , 85, 246-255		137
396	Comparative environmental life cycle assessment of thermal insulation materials of buildings. 2014 , 82, 466-481		150
395	Influence of simplification of life cycle inventories on the accuracy of impact assessment: application to construction products. <i>Journal of Cleaner Production</i> , 2014 , 79, 142-151	10.3	26
394	Lifecycle assessment of living walls: air purification and energy performance. <i>Journal of Cleaner Production</i> , 2014 , 69, 91-99	10.3	77
393	A semi-quantitative framework of building lifecycle analysis: Demonstrated through a case study of a typical office building block in Mexico in warm and humid climate. <i>Sustainable Cities and Society</i> , 2014 , 12, 16-24	10.1	4
392	Embodied greenhouse gas emissions from refurbishment of residential building stock to achieve a 50% operational energy reduction. <i>Building and Environment</i> , 2014 , 79, 46-56	6.5	37
391	Design of a multipurpose Dero energy consumption Duilding according to European Directive 2010/31/EU: Life cycle assessment. 2014 , 80, 585-597		23
390	Future-Proofed Energy Design Approaches for Achieving Low-Energy Homes: Enhancing the Code for Sustainable Homes. <i>Buildings</i> , 2014 , 4, 488-519	3.2	8
389	A 6D CAD Model for the Automatic Assessment of Building Sustainability. 2014 , 11, 131		19
388	Life-Cycle Assessment of Construction in a Developing Country. 2015 , 24, 11-21		7
387	Analysis of lifecycle CO2 reduction performance for long-life apartment house. 2015 , 34, 555-566		17
386	LCA of fibre-reinforced composites. 2015 , 301-323		6

385	Integrating Simplified and Full Life Cycle Approaches in Decision Making for Building Energy Refurbishment: Benefits and Barriers. <i>Buildings</i> , 2015 , 5, 354-380	3.2	41
384	Renewable Substitutability Index: Maximizing Renewable Resource Use in Buildings. <i>Buildings</i> , 2015 , 5, 581-596	3.2	3
383	Integrating Life Cycle Energy into the Design of Fallde Refurbishment for a Post-War Residential Building in The Netherlands. <i>Buildings</i> , 2015 , 5, 622-649	3.2	7
382	Assessment of the energy and carbon embodied in straw and clay masonry blocks. 2015 , 461-480		3
381	Case Study of Carbon Emissions from a Building Life Cycle Based on BIM and Ecotect. 2015 , 2015, 1-15		16
380	BIM Application to Select Appropriate Design Alternative with Consideration of LCA and LCCA. 2015 , 2015, 1-14		29
379	A program-level management system for the life cycle environmental and economic assessment of complex building projects. 2015 , 54, 9-21		26
378	Embodied energy of conventional load-bearing walls versus natural stabilized earth blocks. 2015 , 97, 146-154		20
377	Measuring office fit-out changes to determine recurring embodied energy in building life cycle assessment. 2015 , 33, 262-274		10
376	A review on Life Cycle Assessment, Life Cycle Energy Assessment and Life Cycle Carbon Emissions Assessment on buildings. 2015 , 143, 395-413		403
375	A review of life cycle assessment method for building industry. 2015 , 45, 244-248		175
374	LCA implementation in the selection of thermal enhanced mortars for energetic rehabilitation of school buildings. 2015 , 92, 1-9		28
373	Effects of structural system on the life cycle carbon footprint of buildings. 2015 , 102, 337-346		88
372	CO2 emissions of China's commercial and residential buildings: Evidence and reduction policy. <i>Building and Environment</i> , 2015 , 92, 418-431	6.5	77
371	An Analytic Network Process approach for the environmental aspect selection problem 🛭 case study for a hand blender. 2015 , 54, 101-109		16
370	Methodological challenges and developments in LCA of low energy buildings: Application to biogenic carbon and global warming assessment. <i>Building and Environment</i> , 2015 , 90, 51-59	6.5	105
369	Methodology to assess the environmental sustainability of timber structures. 2015 , 86, 149-158		27
368	Between full LCA and energy certification methodology comparison of six methodological variants of buildings environmental assessment. <i>International Journal of Life Cycle Assessment</i> , 2015 , 20, 9-22	4.6	27

(2016-2015)

367	Life cycle assessment of exterior window shadings in residential buildings in different climate zones. <i>Building and Environment</i> , 2015 , 90, 168-177	6.5	49
366	Embodied and Construction Phase Greenhouse Gas Emissions of a Low-energy Residential building. 2015 , 21, 355-365		14
365	China's energy consumption in the building sector: A life cycle approach. 2015 , 94, 240-251		127
364	A comparative review of environmental concern prioritization: LEED vs other major certification systems. 2015 , 154, 266-83		7 ²
363	Energy Resilient Urban Form: A Design Perspective. 2015 , 75, 2922-2927		6
362	An Integrated BIM-Based Framework for the Energy Assessment of Building Upstream Flow. 2015 ,		1
361	An assessment of the relationship between embodied and thermal energy demands in dwellings in a Mediterranean climate. 2015 , 109, 230-244		23
360	New Life of the Building Materials- Recycle, Reuse and Recovery. 2015 , 75, 2884-2891		30
359	Carbon footprint assessment of a typical low rise office building in Malaysia using building information modelling (BIM). 2015 , 6, 157-172		33
358	Saving potential for embodied energy and CO2 emissions from building elements: A case study. 2015 , 39, 261-284		8
357	Greenhouse gas emissions during the construction phase of a building: a case study in China. <i>Journal of Cleaner Production</i> , 2015 , 103, 249-259	10.3	185
356	Life cycle assessment and data envelopment analysis approach for the selection of building components according to their environmental impact efficiency: a case study for external walls. <i>Journal of Cleaner Production</i> , 2015 , 87, 707-716	10.3	43
355	Reducing the operational energy demand in buildings using building information modeling tools and sustainability approaches. <i>Ain Shams Engineering Journal</i> , 2015 , 6, 41-55	4.4	64
354	Impact of progressive sustainable target value assessment on building design decisions. <i>Building and Environment</i> , 2015 , 85, 52-60	6.5	34
353	Carbon emission analysis of a residential building in China through life cycle assessment. 2016 , 10, 150-	-158	15
352	Obstacles and motivations for earthbag social housing in Chile: energy, environment, economic and codes implications. 2016 , 15, 17-26		12
351	Life Cycle Assessment in Building: A Case Study on the Energy and Emissions Impact Related to the Choice of Housing Typologies and Construction Process in Spain. <i>Sustainability</i> , 2016 , 8, 287	3.6	20
350	Case Study: LCA Methodology Applied to Materials Management in a Brazilian Residential Construction Site. 2016 , 2016, 1-9		12

349	Estimating the Additional Greenhouse Gas Emissions in Korea: Focused on Demolition of Asbestos Containing Materials in Building. <i>International Journal of Environmental Research and Public Health</i> , 2016 , 13,	4.6	3
348	Building Simplified Life Cycle CO2 Emissions Assessment Tool (B-SCAT) to Support Low-Carbon Building Design in South Korea. <i>Sustainability</i> , 2016 , 8, 567	3.6	16
347	A Study on Life Cycle CO2 Emissions of Low-Carbon Building in South Korea. Sustainability, 2016, 8, 579	3.6	46
346	Quantification of Improvement in Environmental Quality for Old Residential Buildings Using Life Cycle Assessment. <i>Sustainability</i> , 2016 , 8, 1303	3.6	7
345	Heat transfer performance of paraffin wax based phase change materials applicable in building industry. 2016 , 107, 1313-1323		38
344	Embodied energy of mud concrete block (MCB) versus brick and cement blocks. 2016 , 126, 28-35		17
343	Environmental footprint assessment of building structures: A comparative study. <i>Building and Environment</i> , 2016 , 104, 162-171	6.5	48
342	Simplification in life cycle assessment of single-family houses: A review of recent developments. <i>Building and Environment</i> , 2016 , 103, 215-227	6.5	89
341	Life cycle assessment (LCA) applied to the manufacturing of common and ecological concrete: A review. 2016 , 124, 656-666		100
340	An Investigation into GHG and non-GHG Impacts of Double Skin Falldes in Office Refurbishments. 2016 , 20, 234-248		18
339	An integrated BIM-based framework for minimizing embodied energy during building design. 2016 , 128, 592-604		116
338	Comparative study of the various methods of preparation of silicate solution and its effect on the geopolymerization reaction. 2016 , 6, 280-287		8
337	Green roofs may cast shadows. 2016 , 62, 15-22		5
336	Principles of sustainability and life-cycle analysis. 2016 , 13-31		5
335	Risk-based assessment of wood residential construction subjected to hurricane events considering indirect and environmental loss. 2016 , 1, 46-62		8
334	Life-cycle energy and cost analyses of window shading used to improve the thermal performance of houses. <i>Journal of Cleaner Production</i> , 2016 , 133, 1371-1383	10.3	21
333	LCA databases focused on construction materials: A review. 2016 , 58, 565-573		147
332	Environmental assessment of fallde-building systems and thermal insulation materials for different climatic conditions. <i>Journal of Cleaner Production</i> , 2016 , 113, 102-113	10.3	70

331	A model for the sustainable selection of building envelope assemblies. 2016 , 57, 63-77		18
330	Environmental implications of the use of agglomerated cork as thermal insulation in buildings. <i>Journal of Cleaner Production</i> , 2016 , 126, 97-107	10.3	35
329	Lifecycle Environmental Performance of Natural-Hazard Mitigation for Buildings. 2016 , 30, 04015042		23
328	LCA in architectural design parametric approach. <i>International Journal of Life Cycle Assessment</i> , 2016 , 21, 943-960	4.6	109
327	Lifecycle environmental and economic performance of nearly zero energy buildings (NZEB) in Ireland. 2016 , 116, 622-637		53
326	Evaluation of the environmental performance of the chilled ceiling system using life cycle assessment (LCA): A case study in Singapore. <i>Building and Environment</i> , 2016 , 102, 207-216	6.5	18
325	Development of a building life cycle carbon emissions assessment program (BEGAS 2.0) for Korea?s green building index certification system. 2016 , 53, 954-965		36
324	Assessment of residential building performances for the different climate zones of Turkey in terms of life cycle energy and cost efficiency. 2016 , 110, 362-376		28
323	Pre-use phase LCA of a multi-story residential building: Can greenhouse gas emissions be used as a more general environmental performance indicator?. <i>Building and Environment</i> , 2016 , 95, 116-125	6.5	53
322	Calculation of a building's life cycle carbon emissions based on Ecotect and building information modeling. <i>Journal of Cleaner Production</i> , 2016 , 112, 453-465	10.3	159
321	A predictive product attribute driven eco-design process using depth-first search. <i>Journal of Cleaner Production</i> , 2016 , 112, 3201-3210	10.3	26
320	Tool for life cycle analysis of facade-systems for industrial buildings. <i>Journal of Cleaner Production</i> , 2016 , 130, 260-272	10.3	36
319	Cradle to site Life Cycle Assessment (LCA) of adobe bricks. <i>Journal of Cleaner Production</i> , 2016 , 112, 443	3-453	55
318	Multi-criteria decision-making method for assessing the sustainability of post-disaster temporary housing units technologies: A case study in Bam, 2003. <i>Sustainable Cities and Society</i> , 2016 , 20, 38-51	10.1	74
317	Eco-efficiency analysis of the life cycle of interior partition walls: a comparison of alternative solutions. <i>Journal of Cleaner Production</i> , 2016 , 112, 649-665	10.3	23
316	Comparative life-cycle assessment of ordinary and water-saving taps. <i>Journal of Cleaner Production</i> , 2016 , 112, 4585-4593	10.3	15
315	Professionals[knowledge and use of environmental assessment in an architectural competition. 2017 , 45, 426-442		5
314	Optimization of CO2 emissions in the design phases of urban planning, based on geometric characteristics: a case study of a low-density urban area in Spain. 2017 , 12, 65-85		6

313	Super-insulate or use renewable technology? Life cycle cost, energy and global warming potential analysis of nearly zero energy buildings (NZEB) in a temperate oceanic climate. 2017 , 139, 590-607		73
312	An integrated assessment system for managing life cycle CO2 emissions of a building. 2017 , 73, 265-275	5	33
311	Evaluating the embodied environmental impacts of major building tasks and materials of apartment buildings in Korea. 2017 , 73, 135-144		32
310	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	10.3	29
309	The absolute environmental performance of buildings. <i>Building and Environment</i> , 2017 , 119, 87-98	6.5	41
308	Greenhouse gases (GHG) performance of refurbishment projects Lessons from UK higher education student accommodation case studies. <i>Journal of Cleaner Production</i> , 2017 , 154, 309-317	10.3	6
307	Towards guidance values for the environmental performance of buildings: application to the statistical analysis of 40 low-energy single family housesILCA in France. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 657-674	4.6	25
306	Can life-cycle assessment produce reliable policy guidelines in the building sector?. 2017 , 12, 013001		72
305	Evaluation of buildings in real conditions of use: Current situation. <i>Journal of Building Engineering</i> , 2017 , 12, 26-36	5.2	17
304	Life cycle cost of different Walling material used for affordable housing in tropics. 2017 , 7, 15-29		16
303	A mathematical model for predicting the carbon sequestration potential of ordinary portland cement (OPC) concrete. 2017 , 147, 417-427		24
302	Retrospective analysis of the energy consumption of single-family dwellings in central Argentina. Retrofitting and adaptation to the climate change. 2017 , 101, 1226-1241		18
301	Environmental assessment of a nano-technological aerogel-based panel for building insulation. Journal of Cleaner Production, 2017 , 161, 1404-1415	10.3	32
300	A dynamic life cycle carbon emission assessment on green and non-green buildings in China. 2017 , 149, 272-281		48
299	Life cycle embodied energy analysis of residential buildings: A review of literature to investigate embodied energy parameters. 2017 , 79, 390-413		133
298	Thermal insulators with multiple air gaps: Performance, cost and embodied impacts. <i>Journal of Building Engineering</i> , 2017 , 12, 188-195	5.2	6
297	Integrated building life-cycle assessment model to support South Korea's green building certification system (G-SEED). 2017 , 76, 43-50		25
296	Critical review of bim-based LCA method to buildings. 2017 , 136, 110-120		199

295	Towards to sustainable energy-efficient city: A case study of Macau. 2017, 75, 504-514	30
294	Super-insulated wooden envelopes in Mediterranean climate: Summer overheating, thermal comfort optimization, environmental impact on an Italian case study. 2017 , 138, 716-732	30
293	Development of an electricity system model allowing dynamic and marginal approaches in LCAE in the French context of space heating in buildings. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 1177-1190	26
292	Analysis of life-cycle boundaries for environmental and economic assessment of building energy refurbishment projects. 2017 , 136, 12-25	47
291	Comparative life cycle assessment and life cycle costing of lodging in the Himalaya. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 1851-1863	10
2 90	Activity-based life cycle analysis of a curtain wall supply for reducing its environmental impact. 2017 , 138, 69-79	3
289	Integration of BIM and LCA: Evaluating the environmental impacts of building materials at an early stage of designing a typical office building. <i>Journal of Building Engineering</i> , 2017 , 14, 115-126	110
288	Sustainable design rating system comparison using a life-cycle methodology. <i>Building and Environment</i> , 2017 , 126, 410-421	8
287	Effectiveness of mortars composition on the embodied carbon long-term impact. 2017 , 154, 523-528	8
286	Municipal solid waste system analysis through energy consumption and return approach. 2017 , 203, 973-98	7 17
285	The Environmental Performance of Prefabricated Building and Construction: A Critical Review. 2017 ,	4
284	Analysis of the sensitivity of the ecological effects for the investment based on the thermal insulation of the building: A Polish case study. <i>Journal of Cleaner Production</i> , 2017 , 162, 856-864	9
283	Accounting for the Carbon Sequestration Potential of Reinforced Concrete in a Whole-Building Life-Cycle Assessment. 2017 ,	
282	Life cycle assessment of the end-of-life phase of a residential building. 2017 , 60, 311-321	79
281	Environmental assessment of domestic boilers: A comparison of condensing and traditional technology using life cycle assessment methodology. <i>Journal of Cleaner Production</i> , 2017 , 142, 2493-2508	30
280	Life cycle assessment (LCA) of building refurbishment: A literature review. 2017 , 135, 286-301	195
279	Green building evaluation from a life-cycle perspective in Australia: A critical review. 2017 , 70, 358-368	134
278	Optimal sustainable life cycle maintenance strategies for port infrastructures. <i>Journal of Cleaner Production</i> , 2017 , 142, 1693-1709	52

277	Embodied carbon minimisation of retrofit solutions for walls. 2017 , 170, 141-156		6
276	Recent developments, future challenges and new research directions in LCA of buildings: A critical review. 2017 , 67, 408-416		251
275	High Thermal Resistance Versus High Thermal Capacity. 2017 , 1-18		2
274	Understanding the Sustainability of Eco-Labeled Products When Compared to Conventional Alternatives. 2017 ,		1
273	Environmental assessment of bio-based building materials. 2017 , 547-591		6
272	Taking the Time Characteristic into Account of Life Cycle Assessment: Method and Application for Buildings. <i>Sustainability</i> , 2017 , 9, 922	3.6	10
271	Precision of a Streamlined Life Cycle Assessment Approach Used in Eco-Rating of Mobile Phones. 2017 , 8, 21		11
270	Analysis of the potential of Spanish supermarkets to contribute to the mitigation of climate change. 2018 , 14, 122-128		8
269	Environmental assessment at the urban level combining LCA-GIS methodologies: A case study of energy retrofits in the Barcelona metropolitan area. <i>Building and Environment</i> , 2018 , 134, 191-204	6.5	36
268	Building-information-modeling enabled life cycle assessment, a case study on carbon footprint accounting for a residential building in China. <i>Journal of Cleaner Production</i> , 2018 , 183, 729-743	10.3	79
267	Assessing embodied GHG emission reduction potential of cost-effective technologies for construction of residential buildings of Economically Weaker Section in India. 2018 , 19, 139-156		12
266	Embodied Carbon in Buildings. 2018,		13
265	Nearly zero energy building renovation: From energy efficiency to environmental efficiency, a pilot case study. 2018 , 166, 271-283		50
264	How green building rating systems affect designing green. Building and Environment, 2018, 133, 19-31	6.5	58
263	Requirements for applying LCA-based environmental impact assessment tools in the early stages of building design. <i>Building and Environment</i> , 2018 , 133, 228-236	6.5	90
262	Life-Cycle Assessment of Construction Materials: Analysis of Environmental Impacts and Recommendations of Eco-Efficient Management Practices. 2018 , 1-37		
261	Life cycle efficiency ratio: A new performance indicator for a life cycle driven approach to evaluate the potential of ventilative cooling and thermal inertia. 2018 , 163, 22-33		7
260	Greenhouse gas emissions during timber and concrete building construction A scenario based comparative case study. <i>Sustainable Cities and Society</i> , 2018 , 38, 91-97	10.1	52

259	Analysing methodological choices in calculations of embodied energy and GHG emissions from buildings. 2018 , 158, 1487-1498		42	
258	Intraregional reuse of emergency temporary housing in Japan. <i>Sustainable Cities and Society</i> , 2018 , 42, 650-662	10.1	9	
257	Improvement of energy performance metrics for the retrofit of the built environment. Adaptation to climate change and mitigation of energy poverty. 2018 , 165, 399-415		17	
256	A sustainable business model to fight food waste. <i>Journal of Cleaner Production</i> , 2018 , 177, 262-275	10.3	39	
255	The exploration of the life-cycle energy saving potential for using prefabrication in residential buildings in China. 2018 , 166, 561-570		39	
254	Selecting Building Designs with Consideration of Sustainability and Resiliency. 2018 , 24, 04018001		2	
253	Life cycle cost analysis of structural concrete using seawater, recycled concrete aggregate, and GFRP reinforcement. 2018 , 175, 152-160		53	
252	A hybrid life cycle assessment of embodied energy and carbon emissions from conventional and industrialised building systems in Malaysia. 2018 , 167, 253-268		28	
251	Environmental performance analysis of residential buildings in Brazil using life cycle assessment (LCA). 2018 , 169, 748-761		40	
250	Teardown Index: Impact of property values on carbon dioxide emissions of single family housing in Vancouver. 2018 , 170, 95-106		5	
249	Aesthetic perception of photovoltaic integration within new proposals for ecological architecture. Sustainable Cities and Society, 2018 , 39, 203-214	10.1	31	
248	Sustainable alternative of structural concrete retaining tanks. 2018 , 171, 133-150		0	
247	Analysis of the influence of different variables on the impacts related with the envelope of buildings for residential use, with estimation of the interaction of the user. 2018 , 12, 289-313		3	
246	Life cycle assessment and life cycle cost of university dormitories in the southeast China: Case study of the university town of Fuzhou. <i>Journal of Cleaner Production</i> , 2018 , 173, 151-159	10.3	26	
245	The life cycle carbon footprint of refurbished and new buildings [A systematic review of case studies. 2018 , 81, 231-241		47	
244	An ontology-based approach supporting holistic structural design with the consideration of safety, environmental impact and cost. 2018 , 115, 26-39		11	
243	An attributional life cycle assessment for an Italian residential multifamily building. 2018 , 39, 3033-3045		6	
242	Predicting the cradle-to-gate environmental impact of chemicals from molecular descriptors and thermodynamic properties via mixed-integer programming. 2018 , 108, 179-193		18	

241	Overview of Whole Building Life-Cycle Assessment for Green Building Certification and Ecodesign through Industry Surveys and Interviews. 2018 , 69, 178-183		32
240	Interlinked Sustainability Aspects of Low-Rise Residential Family House Development in Slovakia. <i>Sustainability</i> , 2018 , 10, 3966	3.6	5
239	Urbanization Challenges in Emerging Economies. 2018,		
238	Life Cycle Assessment of Buildings with Supplementary Materials. 2018,		
237	Material and decision flows in non-domestic building fit-outs. <i>Journal of Cleaner Production</i> , 2018 , 204, 916-925	10.3	5
236	Life cycle assessment and historic buildings: energy-efficiency refurbishment versus new construction in Norway. 2018 , 24, 152-167		25
235	Use of Steel and Polyolefin Fibres in the La Canda Tunnels: Applying MIVES for Assessing Sustainability Evaluation. <i>Sustainability</i> , 2018 , 10, 4765	3.6	12
234	Pathways toward zero-carbon electricity required for climate stabilization. 2018 , 225, 884-901		36
233	Embodied life cycle assessment comparison of single family residential houses considering the 1970s transition in construction industry: Atlanta case study. <i>Building and Environment</i> , 2018 , 140, 55-67	7 ^{6.5}	9
232	Sustainable Water Management in Buildings. 2018 , 307-321		
231	Redefining the impact assessment of buildings: an uncertainty-based approach to rating codes. 2018 , 36, 348-357		2
230	References. 2018 , 503-587		
229	Cradle-to-grave life-cycle assessment within the built environment: Comparison between the refurbishment and the complete reconstruction of an office building in Belgium. 2018 , 224, 396-405		30
228	Assessing the Climate Change Impacts of Biogenic Carbon in Buildings: A Critical Review of Two Main Dynamic Approaches. <i>Sustainability</i> , 2018 , 10, 2020	3.6	45
227	The carbon footprint of buildings: A review of methodologies and applications. 2018 , 94, 1142-1152		73
226	LCA and BIM: Visualization of environmental potentials in building construction at early design stages. <i>Building and Environment</i> , 2018 , 140, 153-161	6.5	125
226		6.5	9

223	Quota-based carbon tracing model for construction processes in China. <i>Journal of Cleaner Production</i> , 2018 , 200, 657-666	10.3	7
222	BIM-embedded life cycle carbon assessment of RC buildings using optimised structural design alternatives. 2018 , 173, 587-600		35
221	Energy consumption in the life cycle of plumbing fixtures. 2019 , 19, 70-78		
220	Comparison between two genetic algorithms minimizing carbon footprint of energy and materials in a residential building. 2019 , 12, 224-242		7
219	A methodology to analyze the net environmental impacts and building cost performance of an adaptive reuse project: a case study of the Waterloo County Courthouse renovations. 2019 , 39, 419-438	3	13
218	Impediments affecting a comprehensive emission assessment at the construction stage of a building. 2019 , 1-11		3
217	A Systematic Approach to Embodied Carbon Reduction in Buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 220, 012055	0.3	0
216	Environmental Challenges in the Residential Sector: Life Cycle Assessment of Mexican Social Housing. 2019 , 12, 2837		5
215	Environmental comparison of indoor floor coverings. 2019 , 693, 133519		9
214	Influence of the orientation on the optimal glazing size for passive houses in different European climates (for non-cardinal directions). 2019 , 189, 15-25		17
213	Construction, deconstruction, reuse of the structural elements: the circular economy to reach zero carbon. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 323, 012020	0.3	1
212	Towards a Life Cycle Sustainability Assessment method for the quantification and reduction of impacts of buildings life cycle. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 323, 01210	70.3	4
211	Payload for Contact Inspection Tasks with UAV Systems. 2019 , 19,		7
2 10	Current Management Approach. 2019 , 29-92		1
209	BIM-Enabled Sustainable Housing Refurbishment[ICA Case Study. 2019 , 349-394		3
208	Environmental Impact Profiles for Glazing Systems: Strategies for Early Design Process. 2019 , 25, 04019	9005	14
207	Analysis of the scientific evolution of sustainable building assessment methods. <i>Sustainable Cities and Society</i> , 2019 , 49, 101610	10.1	20
206	Bridging the gap between sustainable FM and sustainable buildings Ian exploratory study of six public buildings in Norway. 2019 , 37, 639-652		1

205	Procedure to select combined heating and hot water systems: An expeditious cost optimality approach. <i>Journal of Building Engineering</i> , 2019 , 25, 100838	5.2	2	
204	Dynamic assessment elements and their prospective solutions in dynamic life cycle assessment of buildings. <i>Building and Environment</i> , 2019 , 158, 248-259	6.5	13	
203	Comparative assessment of insulated concrete wall technologies and wood-frame walls in residential buildings: a multi-criteria analysis of hygrothermal performance, cost, and environmental footprints. 2019 , 1-33		5	
202	Evaluation of BIM energy performance and CO2 emissions assessment tools: a case study in warm weather. 2019 , 47, 787-812		17	
201	Sustainability assessment of refurbishment vs. new constructions by means of LCA and durability-based estimations of buildings lifespans: A new approach. <i>Building and Environment</i> , 2019 , 160, 106203	6.5	28	
2 00	Conducting Life Cycle Assessments (LCAs) to Determine Carbon Payback: A Case Study of a Highly Energy-Efficient House in Rural Alaska. 2019 , 12, 1732		8	
199	Influence of an Impregnation Treatment on the Morphology and Mechanical Behaviour of Flax Yarns Embedded in Hydraulic Lime Mortar. 2019 , 7, 30		25	
198	. 2019,			
197	A dynamic weighting system considering temporal variations using the DTT approach in LCA of buildings. <i>Journal of Cleaner Production</i> , 2019 , 220, 398-407	10.3	11	
196	Assessment of CO2 Emissions by Replacing an Ordinary Reinforced Concrete Slab with the Void Slab System in a High-Rise Commercial Residential Complex Building in South Korea. <i>Sustainability</i> , 2019 , 11, 82	3.6	7	
195	Building life cycle analysis toward low carbon emission and energy efficiency. <i>IOP Conference Series:</i> Earth and Environmental Science, 2019 , 220, 012054	0.3		
194	Challenges in evaluating strategies for reducing a building's environmental impact through Integrated Design. <i>Building and Environment</i> , 2019 , 155, 34-46	6.5	17	
193	Changing significance of embodied energy: A comparative study of material specifications and building energy sources. <i>Journal of Building Engineering</i> , 2019 , 23, 324-333	5.2	21	
192	Integrating building information modeling and life cycle assessment in the early and detailed building design stages. <i>Building and Environment</i> , 2019 , 153, 158-167	6.5	72	
191	A multi-criteria lifecycle assessment framework for evaluating building systems design. <i>Journal of Building Engineering</i> , 2019 , 23, 388-402	5.2	10	
190	Measures to improve the adoption of life cycle assessment in the South African construction industry. <i>Journal of Engineering, Design and Technology</i> , 2019 , 18, 480-494	1.5	4	
189	Fibre reinforced polymers in the sports industry Life Cycle Engineering methodology applied to a snowboard using anisotropic layer design. 2019 , 12, 201-211		9	
188	Estimating urban residential building-related energy consumption and energy intensity in China based on improved building stock turnover model. 2019 , 650, 427-437		69	

(2020-2019)

187	Integrating COSMO-Based Profiles with Molecular and Thermodynamic Attributes to Predict the Life Cycle Environmental Impact of Chemicals. 2019 , 7, 3575-3583		11
186	Ceramic panels versus aluminium in buildings: Energy consumption and environmental impact assessment with a new methodology. 2019 , 233-234, 959-974		10
185	Integrating exposure to chemicals in building materials during use stage. <i>International Journal of Life Cycle Assessment</i> , 2019 , 24, 1009-1026	4.6	12
184	Life-Cycle Assessment of Buildings. 2019 , 207-261		4
183	Embodied energy and greenhouse gas emissions analysis of a prefabricated modular house: The Mobyltase study. <i>Journal of Cleaner Production</i> , 2019 , 212, 1044-1053	10.3	46
182	Life cycle and life cycle cost implications of integrated phase change materials in office buildings. 2019 , 43, 150-166		23
181	Continuous BIM-based assessment of embodied environmental impacts throughout the design process. <i>Journal of Cleaner Production</i> , 2019 , 211, 941-952	10.3	71
180	Life cycle assessment applied to recycled aggregate concrete. 2019 , 207-256		4
179	Analyzing the compliance and correlation of LEED and BREEAM by conducting a criteria-based comparative analysis and evaluating dual-certified projects. <i>Building and Environment</i> , 2019 , 147, 158-17	6.5	24
178	Structured Under-Specification of Life Cycle Impact Assessment Data for Building Assemblies. 2019 , 23, 319-334		11
177	Life Cycle Assessment in Buildings: An Overview of Methodological Approach. 2020 , 462-475		
176	Sustainable Construction Achieved Through Life Cycle Assessment: Methodology, Limitations and the Way Forward. 2020 , 576-583		5
175	Investigating the effect of using PCM in building materials for energy saving: Case study of Sharif Energy Research Institute. 2020 , 8, 959-972		19
174	Surveying the environmental life-cycle performance assessments: Practice and context at early building design stages. <i>Sustainable Cities and Society</i> , 2020 , 52, 101879	10.1	12
173	Evaluation of BIM-based LCA results for building design. <i>Automation in Construction</i> , 2020 , 109, 102972	9.6	8o
172	An innovative straw bale wall package for sustainable buildings: experimental characterization, energy and environmental performance assessment. 2020 , 208, 109636		20
171	BIM-based environmental impact assessment for infrastructure design projects. <i>Automation in Construction</i> , 2020 , 120, 103379	9.6	12
170	Ways to get work done: a review and systematisation of simplification practices in the LCA literature. <i>International Journal of Life Cycle Assessment</i> , 2020 , 25, 2154-2168	4.6	6

169	Driving factors of total carbon emissions from the construction industry in Jiangsu Province, China. <i>Journal of Cleaner Production</i> , 2020 , 276, 123179	10.3	16
168	Design, Material Selection and Manufacturing for Sustainable Construction: An Analytical Network Process Approach. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 476, 012006	0.3	O
167	Comparison of Material-Technical Solution of Masonry Family House by Two Different Calculating LCA Approaches. 2020 , 47, 69-76		
166	A comparative life cycle assessment (LCA) of different insulation materials for buildings in the continental Mediterranean climate. 2020 , 225, 110323		32
165	BIM and LCA Integration: A Systematic Literature Review. Sustainability, 2020, 12, 5534	3.6	37
164	UAV + BIM: Incorporation of Photogrammetric Techniques in Architectural Projects with Building Information Modeling Versus Classical Work Processes. 2020 , 12, 2329		12
163	An Epitome of Building Floor Systems by Means of LCA Criteria. Sustainability, 2020, 12, 5442	3.6	4
162	Implementing Life Cycle Sustainability Assessment during design stages in Building Information Modelling: From systematic literature review to a methodological approach. <i>Building and Environment</i> , 2020 , 182, 107164	6.5	37
161	BIM-based LCA and energy analysis for optimised sustainable building design in Ghana. 2020 , 2, 1		4
160	Research on Low-Brightness and High-Reflective Coatings Suitable for Buildings in Tropical Areas. 2020 , 10, 829		2
159	Life-Cycle Assessment of Alternative Envelope Construction for a New House in South-Western Europe: Embodied and Operational Magnitude. 2020 , 13, 4145		3
158	Methodology to Evaluate the Embodied Primary Energy and CO2 Production at Each Stage of the Life Cycle of Prefabricated Structural Systems: The Case of the Solar Decathlon Competition. 2020 , 13, 4311		6
157	Recommendations for Developing a BIM for the Purpose of LCA in Green Building Certifications. <i>Sustainability</i> , 2020 , 12, 6151	3.6	12
156	Bridging the gap between assessment and action: recommendations for the effective use of LCA in the building process. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 022007	0.3	2
155	The Application of Smart Home Concept into Existing Typical Malaysian Single-storey Terrace Houses: Device Installation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 498, 012081	0.3	
154	Environmental Impacts Associated to Different Stages Spanning from Harvesting to Industrialization of Pineapple through Life Cycle Assessment. 2020 , 10, 7007		1
153	A conceptual tool for environmentally benign design: development and evaluation of a Broof of concept[]2020, 34, 30-44		3
152	Visualizing the research of embodied energy and environmental impact research in the building and construction field: A bibliometric analysis. 2020 , 3, 100010		10

(2021-2020)

151	Exploring environmental benefits of reuse and recycle practices: A circular economy case study of a modular building. <i>Resources, Conservation and Recycling</i> , 2020 , 160, 104855	11.9	44
150	Utilizing BIM technology to improve sustainability analyses for Iraqi Construction Projects. 2020 , 21, 1205-1215		3
149	Life cycle assessment of an automotive factory: Identifying challenges for the decarbonization of automotive production (A case study. <i>Journal of Cleaner Production</i> , 2020 , 270, 122330	10.3	11
148	Comparative BIM-based Life Cycle Assessment of Uruguayan timber and concrete-masonry single-family houses in design stage. <i>Journal of Cleaner Production</i> , 2020 , 277, 121958	10.3	13
147	Effect of Decarbonisation Policies and Climate Change on Environmental Impacts due to Heating and Cooling in a Single-Family House. <i>Sustainability</i> , 2020 , 12, 3529	3.6	2
146	Bio-Based Phase Change Materials Incorporated in Lignocellulose Matrix for Energy Storage in Buildings Review. 2020 , 13, 3065		11
145	Development of a BIM-Based Web Tool as a Material and Component Bank for a Sustainable Construction Industry. <i>Sustainability</i> , 2020 , 12, 1766	3.6	19
144	Comparative Life-Cycle Assessment of a High-Rise Mass Timber Building with an Equivalent Reinforced Concrete Alternative Using the Athena Impact Estimator for Buildings. <i>Sustainability</i> , 2020 , 12, 4708	3.6	20
143	New solutions to reduce greenhouse gas emissions through energy efficiency of buildings of special importance - Hospitals. 2020 , 718, 137446		27
142	Quantitative approach for evaluating the building design features impact on cooling energy consumption in hot climates. 2020 , 211, 109802		13
141	Life cycle energy minimization of autonomous buildings. <i>Journal of Building Engineering</i> , 2020 , 30, 1012	29 ,2	10
140	Environmental impact of water-use in buildings: Latest developments from a life-cycle assessment perspective. 2020 , 261, 110198		21
139	Explore the application of reinforced learning to support decision making during the design phase in the construction industry. 2020 , 42, 181-187		3
138	A building information modeling-based carbon emission measurement system for prefabricated residential buildings during the materialization phase. <i>Journal of Cleaner Production</i> , 2020 , 264, 121728	10.3	16
137	Assessment of the global warming potential associated with the construction process of healthcare centres. 2021 , 44, 309-325		2
136	Mycelium Materials. 2021 , 710-718		4
135	Cross-country analysis of life cycle assessmentBased greenhouse gas emissions for automotive parts: Evaluation of coefficient of country. 2021 , 138, 110546		3
134	Rheological behavior of fresh latex polymeric mortar by squeeze-flow technique. 2021 , 267, 121175		1

Food Conservation into 03 Dimension Models of Cold Stores Operated by 03 Refrigeration Systems in Biskra Region (Classic, Absorption, Adsorption). 406, 182-191

132	Introduction. 2021 , 1-15		
131	Building Operational Versus Embodied Energy: Needs and Barriers for a More Reliable Environmental Impact Balance. 2021 , 275-290		O
130	Building information modelling application of material, water, and climate footprint analysis. 2021 , 49, 593-612		7
129	How Lack of Knowledge and Tools Hinders the Eco-Design of Buildings A Systematic Review. 2021 , 5, 20		2
128	Customising flood damage functions to estimate the carbon footprint of flood-related home repairs. 2021 , 14, e12708		O
127	Exploring the current challenges and emerging approaches in whole building life cycle assessment.		2
126	Improving the effectiveness and interaction between building information modeling and life cycle assessment. <i>Architectural Engineering and Design Management</i> , 1-17	1.2	O
125	Challenges and opportunities for integrating BIM and LCA: Methodological choices and framework development. <i>Sustainable Cities and Society</i> , 2021 , 67, 102728	10.1	20
124	Comparison and sensitivity analysis of embodied carbon emissions and costs associated with rural house construction in China to identify sustainable structural forms. <i>Journal of Cleaner Production</i> , 2021 , 293, 126190	10.3	3
123	Life Cycle Assessment of Dynamic Water Flow Glazing Envelopes: A Case Study with Real Test Facilities. 2021 , 14, 2195		2
122	An LCA-based model for assessing prevention versus non-prevention of construction waste in buildings. 2021 , 126, 608-622		7
121	Green public procurement model for environmental assessment of constructive systems. 1-11		1
120	Recent progress of scientific research on life cycle assessment. 2021 , 47, 3161-3161		O
119	Analysis and Assessment of the Building Life Cycle. Indicators and Tools for the Early Design Stage. <i>Sustainability</i> , 2021 , 13, 6467	3.6	3
118	Construction Cost and Carbon Emission Assessment of a Highway Construction Case towards Sustainable Transportation. <i>Sustainability</i> , 2021 , 13, 7854	3.6	3
117	Decision-Making Processes in Controlling Exposure to Sunlight Supported by Simulation Tools: A Case Study in Warm Weather. 2021 , 14, 4100		
116	Life cycle carbon emission reduction potential of a new steel-bamboo composite frame structure for residential houses. <i>Journal of Building Engineering</i> , 2021 , 39, 102295	5.2	4

115	Are low-income mass housing envelops energy efficient and comfortable? A multi-objective evaluation in warm-humid climate. 2021 , 245, 111055		2
114	Environmental Life Cycle Analysis of Residential Building Materials: A Case Study. 2022 , 585-605		
113	Can buildings sector achieve the carbon mitigation ambitious goal: Case study for a low-carbon demonstration city in China?. 2021 , 90, 106633		10
112	Mapping the scientific research of the life cycle assessment in the construction industry: A scientometric analysis. <i>Building and Environment</i> , 2021 , 204, 108086	6.5	4
111	A comprehensive analysis towards benchmarking of life cycle assessment of buildings based on systematic review. <i>Building and Environment</i> , 2021 , 204, 108162	6.5	7
110	Building life-span prediction for life cycle assessment and life cycle cost using machine learning: A big data approach. <i>Building and Environment</i> , 2021 , 205, 108267	6.5	8
109	Recycled versus non-recycled insulation alternatives: LCA analysis for different climatic conditions in Spain. <i>Resources, Conservation and Recycling</i> , 2021 , 175, 105838	11.9	7
108	Stakeholder influence on global warming potential of reinforced concrete structure. <i>Journal of Building Engineering</i> , 2021 , 44, 102979	5.2	1
107	Illosing two loops The importance of energy recovery in the Blosing the loop pproach. 2022 , 433-455		0
106	Life Cycle Assessment, an Integrated Vision to Energy Efficiency in the Building Industry. 2021 , 313-340		1
105	BIM Integrated LCA for Promoting Circular Economy towards Sustainable Construction: An Analytical Review. <i>Sustainability</i> , 2021 , 13, 1310	3.6	11
104	The Uses of Renewable Energy in Buildings. <i>Impact of Meat Consumption on Health and Environmental Sustainability</i> , 2021 , 257-274	0.3	
103	Introduction. 2011 , 1-17		1
102	Aquaponics in the Built Environment. 2019 , 523-558		7
101	Outlining a New Collaborative Business Model as a Result of the Green Building Information Modelling Impact in the AEC Supply Chain. 2019 , 405-417		4
100	Life Cycle Assessment of Natural Fiber Polymer Composites. 2015 , 121-141		6
99	A Model of Simplified LCA for Agri-Food SMEs. 2013 , 123-150		2
98	Carbon Emission Modelling for Construction Logistics Process Through Activity-Based Method. 2018 , 413-424		1

97	A comparative method of air emission impact assessment for building construction activities. 2018 , 68, 1-9		31
96	Role of lightweight materials of construction on carbon dioxide emission of a reinforced concrete building. 2020 , 27, 984-990		5
95	LCA and BIM: Integrated Assessment and Visualization of Building Elements Embodied Impacts for Design Guidance in Early Stages. 2018 , 69, 218-223		28
94	Exploring Capabilities of BIM Tools for Housing Refurbishment in the UK. 2016 , 6, 9-17		1
93	MEodo para quantifical do consumo energEico no ciclo de vida de equipamentos hidrossanitEios. <i>Ambiente Constru</i> do, 2012 , 12, 57-73	0.4	3
92	Influence of Steel Slag Type on Concrete Shrinkage. Sustainability, 2021, 13, 214	3.6	2
91	Assessment of alternative solutions of lower structure, taking into account energy and environmental impacts. 2014 ,		2
90	Impacto energtico y emisiones de CO2 del edificio con soluciones alternativas de fachada. <i>Informes De La Construccion</i> , 2014 , 66, e030	0.4	1
89	Life cycle assessment of regional brick manufacture. <i>Materiales De Construccion</i> , 2016 , 66, e085	1.8	3
88	A REVIEW OF LIFE CYCLE RESEARCH OF THE BUILT ENVIRONMENT AT DIFFERENCE SCALES: A CITATION ANALYSIS USING BIG DATA. <i>Journal of Green Building</i> , 2019 , 14, 63-80	1.3	3
87	ENERGY CONSUMPTION, ENVIRONMENTAL IMPACTS AND EFFECTIVE MEASURES OF GREEN OFFICE BUILDINGS: A LIFE CYCLE APPROACH. <i>Journal of Green Building</i> , 2015 , 10, 161-177	1.3	4
86	Green Marketing as a Tool for Reducing Environmental Footprint of the Construction Industry. Advances in Marketing, Customer Relationship Management, and E-services Book Series, 2017, 1-29	0.3	2
85	The Effects of Tourism Architecture on Island Ecosystems. <i>Journal of Building Construction and Planning Research</i> , 2015 , 03, 163-170	0.4	3
84	The Environmental Effects of Tourism Architecture on Island Ecosystem in Cayo Guillermo, Cuba. <i>Journal of Environmental Protection</i> , 2015 , 06, 1057-1065	0.6	7
83	Thermal Load Reduction with Green Building Envelope. Open Journal of Energy Efficiency, 2017, 06, 11	2-15247	2
82	Integrating climate change impact in new building design process: A review of building life cycle carbon emission assessment methodologies. <i>Cleaner Engineering and Technology</i> , 2021 , 5, 100286	2.7	6
81	Urban Form Energy Use and Emissions in China: Preliminary Findings and Model Proof of Concept. SSRN Electronic Journal,	1	
80	State of the Art Study - How is Environmental Performance Measured for Buildings/Constructions?. 2011 , 141-152		

79	Holistic Design Applying Innovative Technologies. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 13-36	0.4	
78	Comparative life cycle assessment of four insulating boards made with natural and recycled materials. <i>Economics and Policy of Energy and the Environment</i> , 2016 , 71-88	0.2	
77	Definition and Frameworks on a Life-Cycle Negative Growth Rate for Energy and Carbon in an Academic Campus. <i>World Sustainability Series</i> , 2017 , 325-339	0.6	
76	Embodied Carbon of Wood and Reinforced Concrete Structures Under Chronic and Acute Hazards. 2018 , 77-103		1
75	Performance energEica de una vivienda social en Argentina y su rehabilitaciEl basada en simulaciEl tEmica. <i>Ambiente Construdo</i> , 2018 , 18, 215-235	0.4	О
74	References. 289-308		
73	Green Marketing as a Tool for Reducing Environmental Footprint of the Construction Industry. 2019 , 490-511		1
72	Sustainable Cities and Communities. Encyclopedia of the UN Sustainable Development Goals, 2019, 1-9	0.1	
71	Life-Cycle Assessment of Construction Materials: Analysis of Environmental Impacts and Recommendations of Eco-efficient Management Practices. 2019 , 2337-2372		
70	Water management from the environmental certification perspective: a new proposal of criteria and weight rates for application in Brazilian regions. <i>Engenharia Sanitaria E Ambiental</i> , 2019 , 24, 655-66	6 ^{0.4}	
69	Dynamic thermal simulation of advanced natural ventilation in buildings: current and future usage, UK exemplar. <i>Architectural Engineering and Design Management</i> , 2020 , 16, 293-309	1.2	
68	Validating the Sustainability of Eco-Labeled Products Using a Triple-Bottom-Line Analysis. <i>Smart and Sustainable Manufacturing Systems</i> , 2019 , 3, 20190022	0.8	Ο
67	Anlisis de ciclo de vida en viviendas: un caso que contrasta muro de albaHerli con muro de madera en una vivienda social = Life Cycle Assessment of dwellings: a case of study that contrasts masonry wall with wood-frame wall in a social housing. <i>Anales De Edificacl</i> i, 2019 , 5, 76	0.1	1
66	The rehabilitation of buildings. Reflections on construction systems for the environmental sustainability of interventions. <i>Vitruvio</i> , 2019 , 4, 47	0.3	Ο
65	Sustainable Cities and Communities. Encyclopedia of the UN Sustainable Development Goals, 2020, 13-21	0.1	
64	Evaluation of the Feasibility of Recycled Concrete Aggregate for Producing Structural Concrete. <i>E3S Web of Conferences</i> , 2020 , 220, 01098	0.5	
63	Experiencing Life Cycle Assessment in Indian Additive Manufacturing Industries: Needs, Challenges and Solutions. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 67-77	0.4	
62	BIM Modeling-Based Full-Lifecycle Carbon Emissions Model Study on Ancillary Building Facilities of Highway. 2020 ,		O

61	Teardown Index. Impact of Meat Consumption on Health and Environmental Sustainability, 2020, 64-101	0.3	
60	Making Sustainable Energy Communities a Reality. <i>Impact of Meat Consumption on Health and Environmental Sustainability</i> , 30-80	0.3	
59	Making Sustainable Energy Communities a Reality. 324-362		
58	EnviBIM: Environmental data module for BIM library of construction elements. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 052019	0.3	O
57	Clusters of key barriers to life cycle assessment adoption in the South African construction industry: perspectives of stakeholders. <i>Journal of Engineering, Design and Technology</i> , 2021 , 19, 888-903	3 ^{1.5}	О
56	Analysis of energy saving in a single-family home project. <i>Journal of Physics: Conference Series</i> , 2021 , 2102, 012007	0.3	
55	Energy effectiveness of passive cooling design strategies to reduce the impact of long-term heatwaves on occupants Ithermal comfort in Europe: Climate change and mitigation. <i>Journal of Cleaner Production</i> , 2021 , 129675	10.3	6
54	How Can Collaborative Circular Economy Practices in Modular Construction Help Fdfation Internationale de Football Association World Cup Qatar 2022 to Achieve Its Quest for Sustainable Development and Ecological Systems?. <i>Frontiers in Sustainability</i> , 2021 , 2,	2.1	
53	The EPiC database: Hybrid embodied environmental flow coefficients for construction materials. <i>Resources, Conservation and Recycling</i> , 2021 , 180, 106058	11.9	2
52	Comparison of the Embodied Carbon Emissions and Direct Construction Costs for Modular and Conventional Residential Buildings in South Korea. <i>Buildings</i> , 2022 , 12, 51	3.2	3
51	Stakeholders[perspectives on BIM and LCA for green buildings. <i>Journal of Building Engineering</i> , 2022 , 48, 103931	5.2	4
50	Combining circular and LCA indicators for the early design of urban projects. <i>International Journal of Life Cycle Assessment</i> , 2022 , 27, 1-19	4.6	1
49	Water Consumption and Environmental Impact of Multifamily Residential Buildings: A Life Cycle Assessment Study. <i>Buildings</i> , 2022 , 12, 48	3.2	2
48	Comparative Study on Life-Cycle Assessment and Carbon Footprint of Hybrid, Concrete and Timber Apartment Buildings in Finland <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19,	4.6	8
47	Carbon footprint assessment of residential buildings, a review and a case study in Turkey. <i>Journal of Cleaner Production</i> , 2022 , 340, 130691	10.3	2
46	A Comparison of the Environmental Performance between Construction Materials and Operational Energy of Nearly Zero-Energy Wood-Based Educational Building. <i>Forests</i> , 2022 , 13, 220	2.8	1
45	Uncertainties in whole-building life cycle assessment: A systematic review. <i>Journal of Building Engineering</i> , 2022 , 50, 104191	5.2	2
44	Imbibing Energy Efficiency in Buildings Through Sustainable Materials A Review. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2022 , 399-414	0.4	

43	Environmental Impacts of Construction in Building Industry Review of Knowledge Advances, Gaps and Future Directions. <i>Knowledge</i> , 2022 , 2, 139-156		1
42	Comparative Life Cycle Assessment of a Historic and a Modern School Building, Located in the City of Naoussa, Greece. <i>Sustainability</i> , 2022 , 14, 4216	3.6	О
41	A Comparison of Traditional and Contemporary Social Houses in Catarmarca (Argentina). Comfort Conditions and Life Cycle Assessment. <i>Sustainable Cities and Society</i> , 2022 , 103891	10.1	О
40	A critical review on BIM and LCA integration using the ISO 14040 framework. <i>Building and Environment</i> , 2022 , 213, 108865	6.5	2
39	Experimental Study on Axial Compressive Performance of Polyvinyl Alcohol Fibers Reinforced Fly Ash-Slag Geopolymer Composites <i>Polymers</i> , 2021 , 14,	4.5	О
38	BIM-based LCSA application in early design stages using IFC. Automation in Construction, 2022, 138, 104	25 .0	3
37	Cross-laminated timber for building construction: A life-cycle-assessment overview. <i>Journal of Building Engineering</i> , 2022 , 52, 104482	5.2	2
36	Management of Integrated Territorial Development Based on the Ecosystem Approach to the Reproduction of Residential Real Estate. <i>Lecture Notes in Civil Engineering</i> , 2022 , 237-247	0.3	
35	BIM-based life cycle assessment for different structural system scenarios of a residential building. <i>Ain Shams Engineering Journal</i> , 2022 , 13, 101802	4.4	1
34	An enhanced multi-criteria decision-making approach oriented to sustainability analysis of building facades: A case study of Barcelona. <i>Journal of Building Engineering</i> , 2022 , 104630	5.2	1
33	Modelling and quantitation of embodied, operational and mobile energies of buildings: a holistic review from 2012 to 2021. <i>Engineering, Construction and Architectural Management</i> , 2022 , ahead-of-print,	3.1	
32	Carbon Emission Calculation of Prefabricated Building in Materialized Stage Based on BIM Technology. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2022 , 873-879	0.4	
31	Long-Term Experience of Teaching Life Cycle Assessment and Circular Design to Future Architects: A Learning by Doing Approach in a Design Studio Setting. <i>Sustainability</i> , 2022 , 14, 7355	3.6	2
30	Thermochemical recovery from the sustainable economy development point of viewIICA-based reasoning for EU legislation changes. <i>Clean Technologies and Environmental Policy</i> ,	4.3	
29	Comparing flexible and conventional monolithic building design: Life cycle environmental impact and potential for material circulation. <i>Building and Environment</i> , 2022 , 109409	6.5	О
28	Structural development of a novel punctually supported timber building system for multi-storey construction. <i>Journal of Building Engineering</i> , 2022 , 58, 104972	5.2	1
27	Evaluating the environmental impacts of conventional and modular buildings in absolute measures: A case study across different geographical contexts. 2022 , 109509		О
26	Building Information Modeling Assisted Carbon Emission Impact Assessment of Prefabricated Residential Buildings in the Design Phase: Case Study of a Chinese Building. 2022 , 2022, 1-11		

25	Sustainability Design and Evaluation of High-Performance Concrete Joint Reticulated Shell Structure Based on LCA. 2022 , 588-601	О
24	Advanced Circular Design, a Life Cycle Approach. 2022, 1870-1878	О
23	How to Facilitate the Integration Between Building Information Modelling and Life Cycle Assessment Tools in Building Sector. 2022 , 26-38	0
22	A whole building life-cycle assessment methodology and its application for carbon footprint analysis of U.S. commercial buildings. 1-19	O
21	Rapid Environmental Assessment of Buildings: Linking Environmental and Cost Estimating Databases. 2022 , 14, 10928	1
20	Carbon Emissions of Passive Building During Production and Operation in Cold Region of China. 2023 , 211-220	O
19	Tracking the spatio-temporal distribution and regional differences of carbon footprint in grid scale of China's construction industry.	0
18	A BIBLIOMETRIC REVIEW OF RESEARCH ON BUILDING INFORMATION MODELING-BASED GREEN BUILDING ASSESSMENT. 2022 , 17, 63-88	О
17	Arrangement of reinforcement in variable density timber slab systems for multi-story construction. 14780	7712211350
16	Environmental and economic optimization and prioritization tool-kit for residential building renovation strategies with life cycle approach. 2022 , 109813	О
15	Comparison of Green Building Rating Systems from LCA Perspective. 2022 , 1101, 062019	0
14	An Empirical Study on Energy Saving and Emissions Reduction of Prefabricated Buildings Based on the Whole Life Cycle. 2022 ,	O
13	Sustainability assessment model for mass Housing's interior rehabilitation and its validation to Ekbatan, Iran. 2022 , 105685	0
12	Embodied vs. Operational Energy and Carbon in Retail Building Shells: A Case Study in Portugal. 2023 , 16, 378	1
11	Characterising Embodied Energy in Construction Activities Using Energy Inventory Life Cycle Assessment Method. 2023 , 13, 52	0
10	A Novel Combination Scheme of the Modified TOPSIS and ITARA in Housing Assistance and Building Assessments. 2022 , 18, 1360-1372	O
9	Exploring Building Information Modeling (BIM) and Internet of Things (IoT) Integration for Sustainable Building. 2023 , 13, 288	0
8	Multi-zone building control with thermal comfort constraints under disjunctive uncertainty using data-driven robust model predictive control. 2023 , 9, 100124	O

CITATION REPORT

7	Carbon emission evaluation of prefabricated concrete composite plates during the building materialization stage. 2023 , 232, 110045	O
6	Die Ermittlung der Ressourceneffizienz und der Klimabelastung von Bauwerken. 2023 , 83-118	O
5	Life cycle energy assessments of conventional building: A systematic review. 2023,	О
4	An environmental management plan for construction waste management. 2023 , 102244	O
3	Assessment of Sustainability and Efficiency Metrics in Modern Methods of Construction: A Case Study Using a Life Cycle Assessment Approach. 2023 , 15, 6267	О
2	LCA of the NZEB El Salvador building, a model to estimate the carbon footprint in a tropical country. 2023 , 408, 137137	О
1	Potential for environmental impact reduction through building LCA(Life Cycle Assessment) of school facilities in material production stage. 2023 , 238, 110329	O