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Life-Cycle Assessment and the Environmental Impact of Buildings: A Review

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453	Toward greater ecological intelligence in the United States: ten statements with statistics and commentary regarding ecolabels. <b>2010</b> , 6, 39-44		
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450	Energy saving in the conventional design of a Spanish house using thermal simulation. <b>2011</b> , 43, 3226-3	3235	31
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447	Dynamic Life Cycle Assessment of Building Design and Retrofit Processes. 2011,		8
446	ECOLOGICAL PAYBACK TIME OF AN ENERGY-EFFICIENT MODULAR BUILDING. <b>2012</b> , 7, 100-119		12
445	Aqueous Emulsion Polymers. <b>2012</b> , 479-518		6
444	Multiscale Approach to Life Cycle Assessment. <b>2012</b> , 16, 951-962		21
443	Reduction of primary energy and CO2 emissions through selection and environmental evaluation of building materials. <b>2012</b> , 46, 704-712		11
442	A comparative review of existing data and methodologies for calculating embodied energy and carbon of buildings. <b>2012</b> , 3, 26-36		53
441	Energy Costs of Energy Savings in Buildings: A Review. Sustainability, 2012, 4, 1711-1732	3.6	8
440	Towards sustainable urban communities. <b>2012</b> , 32, 165-169		207
439	Need for an embodied energy measurement protocol for buildings: A review paper. <b>2012</b> , 16, 3730-374	13	<b>2</b> 80

438	Life cycle energy consumption and CO2 emission of an office building in China. 2012, 17, 105-118	115
437	Integrating building information modelling with sustainability to design building projects at the conceptual stage. <b>2013</b> , 6, 429-444	113
436	An audit of life cycle energy analyses of buildings. <b>2013</b> , 39, 43-54	35
435	Lowering the global warming impact of bridge rehabilitations by using Ultra High Performance Fibre Reinforced Concretes. <b>2013</b> , 38, 1-11	77
434	System boundary for embodied energy in buildings: A conceptual model for definition. <b>2013</b> , 21, 153-164	136
433	Operational vs. embodied emissions in buildings review of current trends. 2013, 66, 232-245	287
432	Comparing environmental impacts of natural inert and recycled construction and demolition waste processing using LCA. <b>2013</b> , 21, 273-287	61
431	LCA case study. Part 1: cradle-to-grave environmental footprint analysis of composites and stainless steel I-beams. <b>2013</b> , 18, 208-217	21
430	Assessment of ecological sustainability of a building subjected to potential seismic events during its lifetime. <b>2013</b> , 18, 504-515	41
429	A hybrid Data Quality Indicator and statistical method for improving uncertainty analysis in LCA of complex system [application to the whole-building embodied energy analysis. <i>Journal of Cleaner</i> 10.3 <i>Production</i> , <b>2013</b> , 43, 166-173	77
428	Multi-Criteria Analysis of Material Compositions of External Walls. <b>2013</b> , 664, 485-490	2
427	Life Cycle Assessment of Ready-Mixed Concrete. <b>2013</b> , 743-744, 234-238	3
426	The Chicago Center for Green Technology: life-cycle assessment of a brownfield redevelopment project. <b>2013</b> , 8, 015038	9
425	Life cycle assessment (LCA) aspects of concrete. <b>2013</b> , 45-80	10
424	A hybrid approach using AHPIIOPSISEntropy methods for sustainable ranking of structural materials. <b>2013</b> , 6, 212-224	21
423	. 2013,	34
422	Compressed Air Efficiency: A Case Study Combining Variable Speed Control with Electronic Inlet Valve Modulation. <b>2013</b> ,	
421	An Automated BIM Model to Conceptually Design, Analyze, Simulate, and Assess Sustainable Building Projects. <b>2014</b> , 2014, 1-21	45

420	Sustainability Life Cycle Cost Analysis of Roof Waterproofing Methods Considering LCCO2.  Sustainability, <b>2014</b> , 6, 158-174	ó	6
419	Using Building Information Modeling to Evaluate the Costs and Benefits of Adopting Sustainable Universal Houses in Canada. <b>2014</b> , 3, 56-76		О
418	The importance of embodied energy in carbon footprint assessment. <b>2014</b> , 32, 49-60		39
417	Sustainable Construction Approach through Integration of LCA and BIM Tools. 2014,		9
416	Lifecycle evaluation of building sustainability using BIM and RTLS. 2014,		4
415	LIFECYCLE ENERGY CONSUMPTION PREDICTION OF RESIDENTIAL BUILDINGS BY INCORPORATING LONGITUDINAL UNCERTAINTIES. <b>2014</b> , 19, S161-S171		10
414	Environmental assessment of green concrete containing natural zeolite on the global warming index in marine environments. <i>Journal of Cleaner Production</i> , <b>2014</b> , 65, 418-423	.3	80
413	Cities for Smart Environmental and Energy Futures. <b>2014</b> ,		7
412	Sustainable plants in urban parks: A life cycle analysis of traditional and alternative lawns in Georgia, USA. <b>2014</b> , 122, 140-151		22
411	Comparing the environmental impact of reinforced concrete and wooden structures. <b>2014</b> , 407-433		1
410	Life Cycle Impact Assessment of masonry system as inner walls: A case study in Brazil. <b>2014</b> , 70, 141-147		30
409	Carbon footprinting of electronic products. <b>2014</b> , 136, 636-648		19
408	Exergetic life cycle assessment of a grid-connected, polycrystalline silicon photovoltaic system. <b>2014</b> , 19, 1716-1732		9
407	Life Cycle Inventory analysis of a precast reinforced concrete shed for goods storage. <i>Journal of Cleaner Production</i> , <b>2014</b> , 79, 152-167	.3	15
406	Thermodynamic analysis and life cycle assessment of the heating strategies in historical buildings: a case study. <b>2014</b> , 14, 60		1
405	A 6D CAD Model for the Automatic Assessment of Building Sustainability. <b>2014</b> , 11, 131		19
404	Recurrent embodied energy and its relationship with service life and life cycle energy. <b>2014</b> , 32, 160-181		15
403	Life cycle environmental performance of material specification: a BIM-enhanced comparative assessment. <b>2015</b> , 6, 14-24		87

402	Ontology to Support Multi-Objective Integrated Analyses for Sustainable Construction: A Conceptual Framework. <b>2015</b> , 73-95	3
401	Life Cycle Analysis (LCA) of Electrochromic Smart Windows. <b>2015</b> , 545-570	
400	The role of life cycle assessment in preparing built environment students for a career in industry. <b>2015</b> , 9, 327	
399	An Inquiry into the Life Cycle of Systems of Inner Walls: Comparison of Masonry and Drywall.  Sustainability, <b>2015</b> , 7, 7904-7925  3.6	9
398	Costs and Benefits in the Recovery of Historic Buildings: The Application of an Economic Model. <i>Sustainability</i> , <b>2015</b> , 7, 14661-14676	25
397	A program-level management system for the life cycle environmental and economic assessment of complex building projects. <b>2015</b> , 54, 9-21	26
396	Acoustic characterization of natural fibers for sound absorption applications. <b>2015</b> , 94, 840-852	302
395	Embodied energy of conventional load-bearing walls versus natural stabilized earth blocks. <b>2015</b> , 97, 146-154	20
394	A review of life cycle assessment method for building industry. <b>2015</b> , 45, 244-248	175
393	Embodied energy of construction materials: integrating human and capital energy into an IO-based hybrid model. <b>2015</b> , 49, 1936-45	43
392	Life cycle assessment as a comparative analysis tool for sustainable brownfield redevelopment projects. <b>2015</b> , 323-365	1
391	Enhancement of Eco-Efficiency Through Life Cycle Assessment in Crumb Rubber Processing. <b>2015</b> , 195, 2475-2484	3
390	Morphology and coupling of environmental boundaries in an iron and steel industrial system for modelling metabolic behaviours of mass and energy. <i>Journal of Cleaner Production</i> , <b>2015</b> , 100, 247-261	27
389	Sustainable Construction Enhanced through Building Information Modeling. 2015,	
388	Ontology in the AEC Industry. <b>2015</b> ,	4
387	Enhancing environmental sustainability over building life cycles through green BIM: A review. <b>2015</b> , 57, 156-165	272
386	A comparative review of environmental concern prioritization: LEED vs other major certification systems. <b>2015</b> , 154, 266-83	72
385	LEED Embedded Building Information Modeling System. 2015,	2

384	Data-driven solutions for building environmental impact assessment. 2015,		1
383	Comparison of sustainable community rating tools in Australia. <i>Journal of Cleaner Production</i> , <b>2015</b> , 109, 84-91	10.3	30
382	Visualization of energy and water consumption and GHG emissions: A case study of a Canadian University Campus. <b>2015</b> , 109, 334-352		22
381	Sustainable target value design: integrating life cycle assessment and target value design to improve building energy and environmental performance. <i>Journal of Cleaner Production</i> , <b>2015</b> , 88, 43-5	1 <sup>10.3</sup>	80
380	Engineering and sustainability performance of self-compacting palm oil mill incinerated waste concrete. <i>Journal of Cleaner Production</i> , <b>2015</b> , 89, 78-86	10.3	78
379	Review and perspectives on Life Cycle Analysis of solar technologies with emphasis on building-integrated solar thermal systems. <b>2015</b> , 75, 833-846		40
378	Environmental analysis of two building material alternatives in structures with the aim of sustainable construction. <b>2015</b> , 17, 75-83		17
377	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> , <b>2016</b> , 8, 287	3.6	20
376	Case Study: LCA Methodology Applied to Materials Management in a Brazilian Residential Construction Site. <b>2016</b> , 2016, 1-9		12
375	Environmental Impact Assessment of a School Building in Iceland Using LCA-Including the Effect of Long Distance Transport of Materials. <i>Buildings</i> , <b>2016</b> , 6, 46	3.2	12
374	Life Cycle Assessment and Life Cycle Cost Analysis of Magnesia Spinel Brick Production. <i>Sustainability</i> , <b>2016</b> , 8, 662	3.6	25
373	Life-Cycle Assessment of Seismic Retrofit Strategies Applied to Existing Building Structures. <i>Sustainability</i> , <b>2016</b> , 8, 1275	3.6	10
372	Quantification of Improvement in Environmental Quality for Old Residential Buildings Using Life Cycle Assessment. <i>Sustainability</i> , <b>2016</b> , 8, 1303	3.6	7
371	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. <b>2016</b> , 21, 1667-1690		19
370	Mechanical Properties of High Strength Concrete Containing Coal Bottom Ash and Oil-Palm Boiler Clinker as Fine Aggregates. <b>2016</b> , 66, 00034		6
369	Construction waste estimation depending on urban planning options in the design stage of residential buildings. <b>2016</b> , 113, 561-570		13
368	Contribution of the solar systems to the nZEB and ZEB design concept in Portugal Energy, economics and environmental life cycle analysis. <b>2016</b> , 156, 59-74		25
367	Technique for quantification of embodied carbon footprint of construction projects using probabilistic emission factor estimators. <i>Journal of Cleaner Production</i> , <b>2016</b> , 119, 135-151	10.3	18

## (2016-2016)

366	Life-Cycle Environmental Impact Assessment of Reinforced Concrete Buildings Subjected to Natural Hazards. <b>2016</b> , 22,	24
365	Achieving environmentally friendly building envelope for Western Australia housing sector: A life cycle assessment approach. <b>2016</b> , 5, 210-224	22
364	Passive house designAn efficient solution for residential buildings in Romania. <b>2016</b> , 32, 99-109	34
363	Life cycle assessment (LCA) applied to the manufacturing of common and ecological concrete: A review. <b>2016</b> , 124, 656-666	100
362	Embodied carbon mitigation and reduction in the built environment - What does the evidence say?. <b>2016</b> , 181, 687-700	144
361	Full-field measurement with a digital image correlation analysis of a shake table test on a timber-framed structure filled with stones and earth. <b>2016</b> , 123, 451-472	17
360	Assessing Information Technology Systems in the Environmental Arena of China. 2016,	
359	Comparative life-cycle energy analysis of a new and an existing house: The significance of occupant habits, building systems and embodied energy. <b>2016</b> , 26, 507-518	45
358	Are sustainable buildings healthy? An investigation of lifecycle relationship between building sustainability and its environmental health impacts. <b>2016</b> , 13, 190-204	3
357	Assessing the energy intensity of peri-urbanisation: A master plan approach. <b>2016</b> , 128, 540-552	5
356	Integrating climate change and energy mix scenarios in LCA of buildings and districts. <b>2016</b> , 184, 619-629	62
355	Life cycle assessment of low-rise office building with different structure nvelope configurations. <b>2016</b> , 43, 193-200	11
354	Using shearing layer concept to evaluate green rating systems. <b>2016</b> , 59, 114-125	11
353	Developments in life cycle assessment applied to evaluate the environmental performance of construction and demolition wastes. <b>2016</b> , 50, 151-72	110
352	The Use of Life Cycle Techniques in the Assessment of Sustainability. <b>2016</b> , 216, 916-922	30
351	Lifecycle Environmental Performance of Natural-Hazard Mitigation for Buildings. <b>2016</b> , 30, 04015042	23
350	Environmental feasibility of heritage buildings rehabilitation. <b>2016</b> , 58, 235-249	44
349	Life cycle sustainability assessment of ground source heat pump in Shanghai, China. <i>Journal of Cleaner Production</i> , <b>2016</b> , 119, 207-214	62

348	Life cycle sustainability assessment of RC buildings in seismic regions. <b>2016</b> , 110, 347-362	63
347	Contractor Energy Information System: Energy-Savings Tool for Building Construction. <b>2016</b> , 32, 04015048	6
346	Building Simulation and Models: Closing the Performance Gap. <b>2016</b> , 209-226	1
345	Pre-use phase LCA of a multi-story residential building: Can greenhouse gas emissions be used as a more general environmental performance indicator?. <b>2016</b> , 95, 116-125	53
344	Evaluation of the steel slag incorporation as coarse aggregate for road construction: technical requirements and environmental impact assessment. <i>Journal of Cleaner Production</i> , <b>2016</b> , 130, 175-186	92
343	Life cycle assessment of medium-density fiberboard manufacturing process in Islamic Republic of Iran. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 351-358	29
342	Embodied energy and cost of building materials: correlation analysis. <b>2017</b> , 45, 508-523	16
341	Sustainability evaluation framework for building cooling systems: a comparative study of snow storage and conventional chiller systems. <b>2017</b> , 19, 137-155	15
340	Uncertainty analysis focusing on the variance of energy intensity of vehicle materials. <i>Journal of Cleaner Production</i> , <b>2017</b> , 143, 1165-1182	2
339	Ecodesign tools in the construction sector: Analyzing usage inadequacies with designers' needs.  Journal of Cleaner Production, <b>2017</b> , 148, 60-72	29
338	Comparison of environmental benchmarks of masonry and concrete structure based on a building model. <b>2017</b> , 141, 36-43	8
337	Embodied energy analysis of building materials: An improved IO-based hybrid method using sectoral disaggregation. <b>2017</b> , 124, 46-58	44
336	InputButput and process LCAs in the building sector: are the results compatible with each other?. <b>2017</b> , 8, 155-166	24
335	Can life-cycle assessment produce reliable policy guidelines in the building sector?. <b>2017</b> , 12, 013001	72
334	A mathematical model for predicting the carbon sequestration potential of ordinary portland cement (OPC) concrete. <b>2017</b> , 147, 417-427	24
333	Retrospective analysis of the energy consumption of single-family dwellings in central Argentina. Retrofitting and adaptation to the climate change. <b>2017</b> , 101, 1226-1241	18
332	Influence of envelope insulation materials on building energy consumption. 2017, 11, 575-581	6
331	Life cycle embodied energy analysis of residential buildings: A review of literature to investigate embodied energy parameters. <b>2017</b> , 79, 390-413	133

330	Green maintenance for heritage buildings: paint repair appraisal. 2017, 35, 63-89		7
329	Building Information Modelling, Building Performance, Design and Smart Construction. 2017,		6
328	Comparative life cycle assessment and life cycle costing of lodging in the Himalaya. <b>2017</b> , 22, 1851-186.	3	10
327	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> , <b>2017</b> , 14, 115-126	5.2	110
326	Environmental performance of social housing in emerging economies: life cycle assessment of conventional and alternative construction methods in the Philippines. <b>2017</b> , 22, 1785-1801		11
325	A Parametric Tool for the Assessment of Operational Energy Use, Embodied Energy and Embodied Material Emissions in Building. <b>2017</b> , 111, 21-30		24
324	Analyzing Embodied Energy, Global Warming and Acidification Potentials of Materials in Residential Buildings. <b>2017</b> , 180, 1675-1683		13
323	Decent housing in the developing world: Reducing life-cycle energy requirements. <b>2017</b> , 152, 629-642		17
322	Accounting for the Carbon Sequestration Potential of Reinforced Concrete in a Whole-Building Life-Cycle Assessment. <b>2017</b> ,		
321	Measuring the impact of dynamic life cycle performance feedback on conceptual building design. Journal of Cleaner Production, <b>2017</b> , 164, 726-735	10.3	15
320	Life cycle energy efficiency in building structures: A review of current developments and future outlooks based on BIM capabilities. <b>2017</b> , 67, 811-825		130
319	Recent developments, future challenges and new research directions in LCA of buildings: A critical review. <b>2017</b> , 67, 408-416		251
318	Hierarchical Model Predictive Control for Sustainable Building Automation. Sustainability, 2017, 9, 264	3.6	11
317	Ecological Worldview among Urban Design Professionals. Sustainability, 2017, 9, 498	3.6	5
316	Multiple Criteria Decision Making (MCDM) Based Economic Analysis of Solar PV System with Respect to Performance Investigation for Indian Market. <i>Sustainability</i> , <b>2017</b> , 9, 820	3.6	26
315	Measuring the Vulnerability of an Energy Intensive Sector to the EU ETS under a Life Cycle Approach: The Case of the Chlor-Alkali Industry. <i>Sustainability</i> , <b>2017</b> , 9, 837	3.6	4
314	Benchmarking Sustainability Practices Use throughout Industrial Construction Project Delivery. <i>Sustainability</i> , <b>2017</b> , 9, 1007	3.6	11
313	Economic and Environmental Optimization of an Airport Terminal Building Wall and Roof Insulation. Sustainability, 2017, 9, 1849	3.6	17

312	Combining Life Cycle Environmental and Economic Assessments in Building Energy Renovation Projects. <i>Energies</i> , <b>2017</b> , 10, 1851	3.1	15
311	Environmental Impact Analysis on Residential Building in Malaysia Using Life Cycle Assessment. <i>Sustainability</i> , <b>2017</b> , 9, 329	3.6	30
310	Adoption of environmental practices on construction sites. <b>2017</b> , 17, 9-24		13
309	Fired-Clay Bricks Incorporating Biosolids: Comparative Life-Cycle Assessment. <b>2018</b> , 30, 04018125		16
308	Quantifying potential anthropogenic resources of buildings through hot spot analysis. <b>2018</b> , 133, 10-20		40
307	Life cycle analysis of a new modular greening system. <b>2018</b> , 627, 1146-1153		30
306	Embodied Carbon in Buildings. <b>2018</b> ,		13
305	How green building rating systems affect designing green. <b>2018</b> , 133, 19-31		58
304	Requirements for applying LCA-based environmental impact assessment tools in the early stages of building design. <b>2018</b> , 133, 228-236		90
303	Embodied energy analysis of higher education buildings using an input-output-based hybrid method. <b>2018</b> , 161, 41-54		22
302	Normalising and assessing carbon emissions in the building sector: A review on the embodied CO 2 emissions of residential buildings. <b>2018</b> , 130, 212-226		84
301	Comparative analysis between a complete LCA study and results from a BIM-LCA plug-in. <b>2018</b> , 90, 188-2	00	52
300	An integrated method of life-cycle assessment and system dynamics for waste mobile phone management and recycling in China. <i>Journal of Cleaner Production</i> , <b>2018</b> , 187, 852-862	10.3	39
299	Accuracy and reliability: A computational tool to minimise steel mass and carbon emissions at early-stage structural design. <b>2018</b> , 168, 236-250		15
298	Comparing greenhouse gas emissions of precast in-situ and conventional construction methods. <i>Journal of Cleaner Production</i> , <b>2018</b> , 173, 124-134	10.3	43
297	Recurrent carbon footprint assessment and forecasting for conventional housing in tropical regions: A Malaysian case study. <b>2018</b> , 37, 839-849		1
296	LCA of Buildings and the Built Environment. <b>2018</b> , 695-722		4
295	Sustainability assessment of brick work for low-cost housing: A comparison between waste based bricks and burnt clay bricks. <b>2018</b> , 37, 396-406		35

294	Circular Economy in the building sector: Three cases and a collaboration tool. <i>Journal of Cleaner Production</i> , <b>2018</b> , 176, 976-989	10.3	167
293	Probabilistic Assessment of the Life-Cycle Environmental Performance and Functional Life of Buildings due to Seismic Events. <b>2018</b> , 24, 04017035		20
292	Comparison of the Applied Measures on the Simulated Scenarios for the Sustainable Building Construction through Carbon Footprint Emissions Lase Study of Building Construction in Serbia. <i>Sustainability</i> , <b>2018</b> , 10, 4688	3.6	2
291	Comparing construction technologies of single family housing with regard of minimizing embodied energy and embodied carbon. <b>2018</b> , 49, 00126		4
290	Sustainability Tool to Optimise Material Quantities of Steel in the Construction Industry. <b>2018</b> , 69, 184-	188	1
289	Data Driven Quantification of the Temporal Scope of Building LCAs. <b>2018</b> , 69, 224-229		10
288	Building Material Use and Associated Environmental Impacts in China 2000-2015. <b>2018</b> , 52, 14006-1401	4	32
287	The embodied CO2e of sustainable energy technologies used in buildings: A review article. <b>2018</b> , 181, 50-61		24
286	Recent Developments in Life Cycle Assessment and Service Life Prediction: A Review. 2018,		2
0			
285	Urbanization Challenges in Emerging Economies. <b>2018</b> ,		
285	Urbanization Challenges in Emerging Economies. 2018,  Life cycle assessment (LCA) and cost (LCC) studies of lightweight composite flooring systems.  Journal of Building Engineering, 2018, 20, 624-633	5.2	38
	Life cycle assessment (LCA) and cost (LCC) studies of lightweight composite flooring systems.	5.2 3.2	38 16
284	Life cycle assessment (LCA) and cost (LCC) studies of lightweight composite flooring systems.  Journal of Building Engineering, 2018, 20, 624-633  A Database Tool for Systematic Analysis of Embodied Emissions in Buildings and Neighborhoods.		
284	Life cycle assessment (LCA) and cost (LCC) studies of lightweight composite flooring systems.  Journal of Building Engineering, 2018, 20, 624-633  A Database Tool for Systematic Analysis of Embodied Emissions in Buildings and Neighborhoods.  Buildings, 2018, 8, 106  Is e-marketing a source of sustainable business performance? Predicting the role of top management support with various interaction factors. 2018, 5, 1516487		16
284 283 282	Life cycle assessment (LCA) and cost (LCC) studies of lightweight composite flooring systems.  Journal of Building Engineering, 2018, 20, 624-633  A Database Tool for Systematic Analysis of Embodied Emissions in Buildings and Neighborhoods.  Buildings, 2018, 8, 106  Is e-marketing a source of sustainable business performance? Predicting the role of top management support with various interaction factors. 2018, 5, 1516487  Investigating the Relationship between Construction Supply Chain Integration and Sustainable Use	3.2	16
284 283 282	Life cycle assessment (LCA) and cost (LCC) studies of lightweight composite flooring systems.  Journal of Building Engineering, 2018, 20, 624-633  A Database Tool for Systematic Analysis of Embodied Emissions in Buildings and Neighborhoods.  Buildings, 2018, 8, 106  Is e-marketing a source of sustainable business performance? Predicting the role of top management support with various interaction factors. 2018, 5, 1516487  Investigating the Relationship between Construction Supply Chain Integration and Sustainable Use of Material: Evidence from China. Sustainability, 2018, 10, 3581	3.2	16 8 11
284 283 282 281	Life cycle assessment (LCA) and cost (LCC) studies of lightweight composite flooring systems.  Journal of Building Engineering, 2018, 20, 624-633  A Database Tool for Systematic Analysis of Embodied Emissions in Buildings and Neighborhoods.  Buildings, 2018, 8, 106  Is e-marketing a source of sustainable business performance? Predicting the role of top management support with various interaction factors. 2018, 5, 1516487  Investigating the Relationship between Construction Supply Chain Integration and Sustainable Use of Material: Evidence from China. Sustainability, 2018, 10, 3581  Building information modelling for an automated building sustainability assessment. 2018, 35, 99-116  The comparison of a revised Leopold matrix and fuzzy methods in environmental impact assessment, a case study: The construction of Al-A'amiriya residential complex, Baghdad, Iraq. 2018	3.2	16 8 11

276	Sustainability evaluation of retrofitting solutions for rural buildings through life cycle approach and multi-criteria analysis. <b>2018</b> , 173, 281-290		34
275	Life Cycle Energy and Carbon Analysis of Single Family Residential Buildings: Atlanta Case Study. <b>2018</b> ,		1
274	Life Cycle Assessment (LCA) of Different Kinds of Concrete Containing Waste for Sustainable Construction. <i>Buildings</i> , <b>2018</b> , 8, 70	3.2	76
273	Life Cycle Assessment of an Academic Building. <b>2018</b> , 295-315		2
272	A Study on the Analysis of CO2 Emissions of Apartment Housing in the Construction Process. <i>Sustainability</i> , <b>2018</b> , 10, 365	3.6	17
271	Ten Years of Sustainability (2009 to 2018): A Bibliometric Overview. Sustainability, 2018, 10, 1655	3.6	63
270	Assessing the Climate Change Impacts of Biogenic Carbon in Buildings: A Critical Review of Two Main Dynamic Approaches. <i>Sustainability</i> , <b>2018</b> , 10, 2020	3.6	45
269	The Era of Sustainability: Promises, Pitfalls and Prospects for Sustainable Buildings and the Built Environment. <i>Sustainability</i> , <b>2018</b> , 10, 2092	3.6	7
268	Life cycle assessment of grocery, perishable, and general merchandise multi-facility distribution center networks. <b>2018</b> , 174, 388-401		7
267	Review of approaches for integrating loss estimation and life cycle assessment to assess impacts of seismic building damage and repair. <b>2018</b> , 175, 123-137		22
266	How can life cycle thinking support sustainability of buildings? Investigating life cycle assessment applications for energy efficiency and environmental performance. <i>Journal of Cleaner Production</i> , <b>2018</b> , 201, 556-569	10.3	100
265	Life cycle carbon dioxide emissions for fill dams. <i>Journal of Cleaner Production</i> , <b>2018</b> , 201, 820-829	10.3	5
264	Optimisation of heating, cooling and lighting energy performance of modular buildings in respect to location climatic specifics. <b>2018</b> , 129, 527-539		20
263	Indicators for quantifying environmental building performance: A systematic literature review. <i>Journal of Building Engineering</i> , <b>2018</b> , 19, 552-560	5.2	41
262	A framework for performing comparative LCA between repairing flooded houses and construction of dikes in non-stationary climate with changing risk of flooding. <b>2018</b> , 642, 473-484		9
261	Regionalized inventory data in LCA of public housing: A comparison between two conventional typologies in southern Brazil. <i>Journal of Cleaner Production</i> , <b>2019</b> , 238, 117869	10.3	19
<b>2</b> 60	A review of life cycle assessment of buildings using a systematic approach. <b>2019</b> , 162, 106290		84
259	Assessing sustainability performance in the educational sector. A high school case study. <b>2019</b> , 692, 465	-478	5

258	Environmental comparison of indoor floor coverings. <b>2019</b> , 693, 133519	9
257	Life cycle assessment of a typical European single-family residence and its flood related repairs.  Journal of Cleaner Production, <b>2019</b> , 228, 1334-1344	2
256	Comparison of regression models for estimation of carbon emissions during building's lifecycle using designing factors: a case study of residential buildings in Tianjin, China. <b>2019</b> , 204, 109519	11
255	Integrating Earthen Building Materials and Methods into Mainstream Construction Using Environmental Performance Assessment and Building Policy. <b>2019</b> , 323, 012139	1
254	Environmental impact assessment of tall building structural design with precast and conventional building system on embodied energy and carbon emission. <b>2019</b> ,	
253	Metro Stations Classification Based on Clustering Analysis Case Study of Beijing Metro. 2019,	
252	A hybrid material flow analysis for quantifying multilevel anthropogenic resources. <b>2019</b> , 23, 1456-1469	4
251	Energy Efficiency and Economic Viability as Decision Factors in the Rehabilitation of Historic Buildings. <i>Sustainability</i> , <b>2019</b> , 11, 4946	8
250	Whole-Buildings Life Cycle Assessment Sensitivity to Scenario Choices. <b>2019</b> , 290, 012045	O
249	Building impact assessment combined life cycle assessment and multi-criteria decision analysis framework. <b>2019</b> , 150, 104410	22
248	Review on Project Manager Leadership Skills in the Pre-Construction Phase of Sustainable Construction Projects. <b>2019</b> , 266, 01011	3
247	Life Cycle Assessment of Building Materials for a Single-family House in Sweden. <b>2019</b> , 158, 3547-3552	23
246	Predicting compressive strength and electrical resistivity of eco-friendly concrete containing natural zeolite via GEP algorithm. <b>2019</b> , 229, 116883	47
245	Acacia Wood Bio-composites. <b>2019</b> ,	
244	Development of a benchmarking model for BIM implementation in developing countries. <b>2019</b> , 26, 1210-123	2 26
243	Multidisciplinary Optimization of Life-Cycle Energy and Cost Using a BIM-Based Master Model.  Sustainability, <b>2019</b> , 11, 286  3.6	26
242	Analysis of the scientific evolution of sustainable building assessment methods. <b>2019</b> , 49, 101610	20
241	Alternative Imaterials in the green building and construction sector. <b>2019</b> , 8, 270-291	11

240	Integrated optimization with building information modeling and life cycle assessment for generating energy efficient buildings. <b>2019</b> , 250, 1366-1382		60
239	Life cycle assessment of a wooden single-family house in Sweden. <b>2019</b> , 251, 113253		30
238	Review and Mapping of Parameters for the Early Stage Design of Adaptive Building Technologies through Life Cycle Assessment Tools. <i>Energies</i> , <b>2019</b> , 12, 1729	3.1	10
237	Cradle to site Life Cycle Assessment (LCA) of natural vs conventional building materials: A case study on cob earthen material. <b>2019</b> , 160, 106150		32
236	Quality Recovery or Low-End Recovery? Profitability and Environmental Impact of Durable Product Recovery. <i>Sustainability</i> , <b>2019</b> , 11, 1726	3.6	1
235	Soil biotreatment effectiveness for reducing global warming potential from main polluting tillage operations in life cycle assessment phase. <b>2019</b> , 671, 805-817		5
234	Value Creation in Circular Business Models: The case of a US small medium enterprise in the building sector. <b>2019</b> , 146, 291-307		52
233	Changing significance of embodied energy: A comparative study of material specifications and building energy sources. <i>Journal of Building Engineering</i> , <b>2019</b> , 23, 324-333	5.2	21
232	Integrating building information modeling and life cycle assessment in the early and detailed building design stages. <b>2019</b> , 153, 158-167		72
231	A Life Cycle Assessment of Two Residential Buildings Using Two Different LCA Database-Software Combinations: Recognizing Uniformities and Inconsistencies. <i>Buildings</i> , <b>2019</b> , 9, 20	3.2	43
230	Impacts of aluminum production: A cradle to gate investigation using life-cycle assessment. <b>2019</b> , 663, 958-970		31
229	Measures to improve the adoption of life cycle assessment in the South African construction industry. <b>2019</b> , 18, 480-494		4
228	A house of sustainability-based approach for green product design. <b>2019</b> , 31, 819-846		2
227	Life cycle assessment and possible impacts of CFRPs for space applications. <b>2019</b> , 304, 07006		2
226	Environmental and Economic Life Cycle Analysis of Primary Construction Materials Sourcing Under Geopolitical Uncertainties: A Case Study of Qatar. <i>Sustainability</i> , <b>2019</b> , 11, 6000	3.6	15
225	A Technical Review on Methods and Tools for Evaluation of Energy Footprints, Impact on Buildings and Environment. <b>2019</b> , 47-81		2
224	LCA modelling for Zero Emission Neighbourhoods in early stage planning. <b>2019</b> , 149, 379-389		34
223	Materials Design and Applications II. <b>2019</b> ,		

## (2020-2019)

222	Refurbishment of office buildings in New Zealand: identifying priorities for reducing environmental impacts. <b>2019</b> , 24, 1480-1495		8
221	Life Cycle Cost Assessment and the Optimum Design of Timber Roofs for Sustainable Construction. <b>2019</b> , 183-201		1
220	Building rehabilitation life cycle assessment methodology®tate of the art. <b>2019</b> , 103, 408-422		40
219	High performance fibre reinforced cementitious composites: Six memos for the XXI century societal and economical challenges of civil engineering. <b>2019</b> , 10, e00219		5
218	Dynamic relationship between embodied and operational impacts of buildings. 2019, 16, 70-81		3
217	Life cycle input indicators of material resource use for enhancing sustainability assessment schemes of buildings. <i>Journal of Building Engineering</i> , <b>2019</b> , 21, 230-242	5.2	24
216	Energy Footprints of the Bio-refinery, Hotel, and Building Sectors. 2019,		1
215	Structured Under-Specification of Life Cycle Impact Assessment Data for Building Assemblies. <b>2019</b> , 23, 319-334		11
214	Sustainable Construction Achieved Through Life Cycle Assessment: Methodology, Limitations and the Way Forward. <b>2020</b> , 576-583		5
213	Improved environmental impact in the architecture industry: LCA analysis of an alternative masonry element. <b>2020</b> , 147, 1718-1727		5
212	Steering acidogenesis towards selective propionic acid production using co-factors and evaluating environmental sustainability. <b>2020</b> , 379, 122135		20
211	Recycled fibers in reinforced concrete: A systematic literature review. <i>Journal of Cleaner Production</i> , <b>2020</b> , 248, 119207	10.3	70
210	An environmental Life Cycle Assessment of Living Wall Systems. <b>2020</b> , 254, 109743		22
209	Sustainability benchmarking tool (SBT): theoretical and conceptual model proposition of a composite framework. <b>2020</b> , 22, 6755-6797		12
208	Life cycle assessment of seismic retrofit alternatives for reinforced concrete frame buildings. <i>Journal of Building Engineering</i> , <b>2020</b> , 28, 101064	5.2	9
207	Application of Life Cycle Energy Assessment in Residential Buildings: A Critical Review of Recent Trends. <i>Sustainability</i> , <b>2020</b> , 12, 351	3.6	12
206	Life cycle thinking for sustainable development in the building industry. <b>2020</b> , 125-138		5
205	Resource-efficient nondomestic buildings: Intertwining behaviour and technology. <b>2020</b> , 109-127		

204	Life-cycle environmental assessment of energy-retrofit strategies on a campus scale. <b>2020</b> , 48, 659-680		10
203	Life cycle modeling for environmental management: a review of trends and linkages. <b>2019</b> , 192, 51		4
202	Mechanical properties of bamboo after exposure to low temperatures. <b>2020</b> , 1-8		0
201	BIM-DLCA: An integrated dynamic environmental impact assessment model for buildings. <b>2020</b> , 183, 107218		9
200	Neighbourhood sustainability: State of the art, critical review and space-temporal analysis. <b>2020</b> , 63, 102477		15
199	Assessing recycling potential of carbon fiber reinforced plastic waste in production of eco-efficient cement-based materials. <i>Journal of Cleaner Production</i> , <b>2020</b> , 274, 123001	10.3	34
198	Emergy parameters for ensuring sustainable use of building materials. <i>Journal of Cleaner Production</i> , <b>2020</b> , 276, 122382	10.3	7
197	LCA-Based Investigation of Environmental Impacts for Novel Double-Beam Floor System Subjected to High Gravity Loads. <i>Sustainability</i> , <b>2020</b> , 12, 9193	3.6	2
196	Sustainable construction. <b>2020</b> , 20, 191-207		5
195	Preliminary Study on the GWP Benchmark of Office Buildings in Poland Using the LCA Approach. <i>Energies</i> , <b>2020</b> , 13, 3298	3.1	2
194	Circular Economy and Green Public Procurement in the European Union. 2020,		
193	An evaluation of different climate matrices used in biomass energy research. <b>2020</b> , 179-204		
192	Improving Prediction Accuracy of Socio-Human Relationships in a Small-Scale Desalination Plant. <i>Sustainability</i> , <b>2020</b> , 12, 6949	3.6	4
191	The potential of organic agriculture, soil structure and farmers income for inclusive agriculture sustainability: a review. <b>2020</b> , 575, 012099		O
190	Product Resource and Climate Footprint Analysis during Architectural Design in BIM. <b>2020</b> , 588, 052022		2
189	The Improvement of Production Process Impact in Furniture Industry Toward Circular Economy. <b>2020</b> , 202, 07052		
188	Sustainability Potential Evaluation of Concrete with Steel Slag Aggregates by the LCA Method. <i>Sustainability</i> , <b>2020</b> , 12, 9873	3.6	4
187	Modeling Regulation of Economic Sustainability in Energy Systems with Diversified Resources. <b>2020</b> , 2, 11		1

#### (2020-2020)

186	Research Challenges and Advancements in the field of Sustainable Energy Technologies in the Built Environment. <i>Sustainability</i> , <b>2020</b> , 12, 8417	3.6	18
185	Review on Energy and Fire Performance of Water Wall Systems as a Green Building Fallde. <i>Sustainability</i> , <b>2020</b> , 12, 8713	3.6	3
184	Exploring environmental benefits of reuse and recycle practices: A circular economy case study of a modular building. <b>2020</b> , 160, 104855		44
183	Identifying the Key Barriers to Promote Sustainable Construction in the United States: A Principal Component Analysis. <i>Sustainability</i> , <b>2020</b> , 12, 5088	3.6	11
182	Evaluating the use of polymers in residential buildings: Case study of a single storey detached house in New Zealand. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101517	5.2	5
181	Exploring the effects that a non-stationary climate and dynamic electricity grid mix has on whole building life cycle assessment: A multi-city comparison. <b>2020</b> , 61, 102294		6
180	Effect of Decarbonisation Policies and Climate Change on Environmental Impacts due to Heating and Cooling in a Single-Family House. <i>Sustainability</i> , <b>2020</b> , 12, 3529	3.6	2
179	Environmental and Economic Prioritization of Building Energy Refurbishment Strategies with Life-Cycle Approach. <i>Sustainability</i> , <b>2020</b> , 12, 3914	3.6	4
178	Life-cycle assessment environmental sustainability in bridge design and maintenance. 2020, 173, 365-	375	2
177	A Stochastic Approach to LCA of Internal Insulation Solutions for Historic Buildings. <i>Sustainability</i> , <b>2020</b> , 12, 1535	3.6	10
176	Compressive strength prediction of eco-efficient GGBS-based geopolymer concrete using GEP method. <i>Journal of Building Engineering</i> , <b>2020</b> , 31, 101326	5.2	61
175	Improving the thermal, termite resistance and anti-wetting properties of tropical timber using a polymethyl acrylate/halloysite coating. <b>2020</b> , 257-273		1
174	A BIM-LCA Approach for Estimating the Greenhouse Gas Emissions of Large-Scale Public Buildings: A Case Study. <i>Sustainability</i> , <b>2020</b> , 12, 685	3.6	32
173	Life cycle assessment of the building industry: An overview of two decades of research (1995 <b>2</b> 018). <b>2020</b> , 219, 109917		52
172	Towards Sustainable Neighborhoods in Europe: Mitigating 12 Environmental Impacts by Successively Applying 8 Scenarios. <b>2020</b> , 11, 603		3
171	Green Development in the Construction of Family Houses in Urban and Rural Settlements in Slovakia. <i>Sustainability</i> , <b>2020</b> , 12, 4432	3.6	2
170	Assessment of energy and emission performance of a green scientific research building in Beijing, China. <b>2020</b> , 224, 110248		6
169	Applicability of life cycle assessment methodology to conservation works in historical building: The		

168	Environmental impact of water-use in buildings: Latest developments from a life-cycle assessment perspective. <b>2020</b> , 261, 110198	21
167	Developing a sustainability index for public health supply chains. <b>2020</b> , 2, 100019	4
166	. 2020,	2
165	Wood consumption and fixations of carbon dioxide and carbon from timber housing techniques: A Brazilian panorama. <b>2020</b> , 216, 109960	5
164	An analysis on energy performance indicator and GWP at Airports; a case study. <b>2021</b> , 43, 2402-2418	3
163	Life cycle environmental impact assessment to manage and optimize construction waste using Building Information Modeling (BIM). <b>2021</b> , 21, 784-801	28
162	Artificial neural network model to predict the compressive strength of eco-friendly geopolymer concrete incorporating silica fume and natural zeolite. <i>Journal of Cleaner Production</i> , <b>2021</b> , 279, 123697 10.3	74
161	A comprehensive review of warm mix asphalt mixtures-laboratory to field. <b>2021</b> , 274, 121781	21
160	Material-versus energy-related impacts: Analysing environmental trade-offs in building retrofit scenarios in the Netherlands. <b>2021</b> , 231, 110650	5
159	Life cycle assessment, mechanical properties, and durability of roller compacted concrete pavement containing recycled waste materials. <b>2021</b> , 14, 595-606	13
158	Resource efficiency in industrialized housing construction IA systematic review of current performance and future opportunities. <i>Journal of Cleaner Production</i> , <b>2021</b> , 286, 125443	19
157	An Index of Completeness (IoC) of life cycle assessment: Implementation in the building sector. <i>Journal of Cleaner Production</i> , <b>2021</b> , 283, 124672	3
156	Life cycle assessment of eco-friendly concrete mixtures incorporating natural zeolite in sulfate-aggressive environment. <b>2021</b> , 268, 121136	27
155	Assessment of energy demand and greenhouse gas emissions in low rise building systems: Case study of five building systems built after the Gorkha Earthquake in Nepal. <i>Journal of Building</i> 5.2 <i>Engineering</i> , <b>2021</b> , 34, 101831	6
154	Carbon Footprint Estimation for Academic Building in India. <b>2021</b> , 55-70	1
153	Reshaping of AEC Firm Management to Face Environmental Sustainability. <b>2021</b> , 1-10	
152	Comparative Analysis of Methods for Identifying Opportunities for Reusing Solid Waste. <b>2021</b> , 42-56	
151	Life Cycle Assessment and Environmental AuditEmerging Tools of Environmental Management in Businesses. <b>2021</b> , 285-302	

150	Application of Life Cycle Assessment (LCA) On Green Tea Product (Case Study in the X Company). <b>2021</b> , 1041, 012025		О
149	Life cycle environmental impact of a high-speed rail system in the Houston-Dallas I-45 corridor. 1		1
148	A novel artificial intelligent approach: comparison of machine learning tools and algorithms based on optimization DEA Malmquist productivity index for eco-efficiency evaluation. <b>2021</b> , 15, 523-550		14
<sup>1</sup> 47	Evaluation of Life-Cycle Assessment Analysis: Application to Restoration Projects and New Construction in Alpine Climate, Japan. <i>Sustainability</i> , <b>2021</b> , 13, 3608	3.6	1
146	Modeling Regulation of Economic Sustainability in Energy Systems with Diversified Resources. <b>2021</b> , 3, 15		5
145	Innovation Management in Polish Real Estate Developers in the Renewable Energy Sources Context. <i>Energies</i> , <b>2021</b> , 14, 1702	3.1	3
144	Exploring the current challenges and emerging approaches in whole building life cycle assessment.		2
143	Microalgae for biofuels, wastewater treatment and environmental monitoring. <b>2021</b> , 19, 2891-2904		39
142	Improving the effectiveness and interaction between building information modeling and life cycle assessment. 1-17		O
141	The Management of Environmental Resources in the Construction Sector: An Empirical Model. <i>Energies</i> , <b>2021</b> , 14, 2489	3.1	8
140	The Sustainability Assessment of Plantation Agriculture - A Systematic Review of Sustainability Indicators. <b>2021</b> , 26, 892-910		9
139	A Comprehensive Framework for Standardising System Boundary Definition in Life Cycle Energy Assessments. <i>Buildings</i> , <b>2021</b> , 11, 230	3.2	3
138	Analyses of the Life Cycles and Social Costs of CO2 Emissions of Single-Family Residential Buildings: A Case Study in Poland. <i>Sustainability</i> , <b>2021</b> , 13, 6164	3.6	5
137	A Comprehensive Review on the Utilization of Recycled Waste Fibers in Cement-Based Composites. <b>2021</b> , 14,		4
136	Analyzing Utilization of Biomass in Combined Heat and Power and Combined Cooling, Heating, and Power Systems. <b>2021</b> , 9, 1002		O
135	Life cycle assessment of earthen materials for low-cost housing a comparison between rammed earth and fired clay bricks. <b>2021</b> , ahead-of-print,		O
134	Using ANN to Predict the Impact of Communication Factors on the Rework Cost in Construction Projects. <i>Energies</i> , <b>2021</b> , 14, 4376	3.1	8
133	Life cycle assessment (LCA) and life cycle costing (LCC) of road drainage systems for sustainability evaluation: Quantifying the contribution of different life cycle phases. <b>2021</b> , 776, 145937		10

132	Interactions between Lean Construction Principles and Circular Economy Practices for the Construction Industry. <b>2021</b> , 147,		4
131	Component-level embodied carbon database for landscape hard works in Taiwan. 1		1
130	Life cycle assessment of a south European house addressing building design options for orientation, window sizing and building shape. <i>Journal of Building Engineering</i> , <b>2021</b> , 39, 102276	5.2	6
129	Estimation of Carbon Footprint of Residential Building in Warm Humid Climate of India through BIM. <i>Energies</i> , <b>2021</b> , 14, 4237	3.1	4
128	Sustainable Techniques for Building Waste Disposal. <b>2022</b> , 489-503		2
127	Comparison of different concrete compositions based on sustainability score. 1-12		1
126	Environmental gains in the collection of packaging waste obtained in Uskudar district by changing the collection type. <b>2021</b> , 1-13		1
125	An integrated optimization and sensitivity analysis approach to support the life cycle energy trade-off in building design. <b>2021</b> , 253, 111529		2
124	Prefabricated versus conventional construction: Comparing life-cycle impacts of alternative structural materials. <i>Journal of Building Engineering</i> , <b>2021</b> , 41, 102705	5.2	5
123	A comprehensive analysis towards benchmarking of life cycle assessment of buildings based on systematic review. <b>2021</b> , 204, 108162		7
122	A life cycle study of insulation in a case study building with a focus on the effect of the national energy profile. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 103178	5.2	2
121	A structural performance-based environmental impact assessment framework for natural hazard loads. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 102908	5.2	Ο
120	Circular economy in the building and construction sector: A scientific evolution analysis. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 102704	5.2	33
119	Life cycle assessment of interior partition walls: Comparison between functionality requirements and best environmental performance. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 102978	5.2	1
118	Integrated environmental, energy and cost life-cycle analysis of windows: Optimal selection of components. <b>2021</b> , 188, 107516		5
117	Integrating Performance Measurement Systems Into the Global Lean and Sustainable Construction Supply Chain Management. <b>2021</b> , 160-177		
116	Predicting Future Overheating in a Passivhaus Dwelling Using Calibrated Dynamic Thermal Simulation Models. <b>2017</b> , 163-183		2
115	Four Perspectives of Applied Sustainability: Research Implications and Possible Integrations. <b>2017</b> , 554-5	563	27

114	A Whole Life Cycle Group Decision-Making Framework for Sustainability Evaluation of Major Infrastructure Projects. <b>2018</b> , 129-140	3
113	Life cycle performance of Cross Laminated Timber mid-rise residential buildings in Australia. <b>2020</b> , 223, 110091	28
112	Evaluating the impact of operating energy reduction measures on embodied energy. <b>2020</b> , 226, 110340	9
111	Energy and architecture [An overview. <b>2013</b> , 54, 02004	1
110	Green Office Buildings: A Qualitative Exploration of Green Office Building Attributes. <b>2014</b> , 6, 211-232	13
109	BUILDING INFORMATION MODELLING AND PROJECT INFORMATION MANAGEMENT FRAMEWORK FOR CONSTRUCTION PROJECTS. <b>2019</b> , 25, 53-75	32
108	Modelo de cuantificacifi del consumo energlico en edificacifi. <b>2012</b> , 62, 567-582	6
107	A REVIEW OF LIFE CYCLE RESEARCH OF THE BUILT ENVIRONMENT AT DIFFERENCE SCALES: A CITATION ANALYSIS USING BIG DATA. <b>2019</b> , 14, 63-80	3
106	CONSIDERATION OF THE USE PHASE IN CERTIFICATION PROGRAMS FOR RESIDENTIAL GREEN BUILDING. <b>2015</b> , 10, 150-168	1
105	APPLICATION OF LIFE CYCLE ASSESSMENT TO VARIOUS BUILDING LIFETIME SHEARING LAYERS: SITE, STRUCTURE, SKIN, SERVICES, SPACE, AND STUFF. <b>2015</b> , 10, 198-214	3
104	USING LIFE CYCLE ASSESSMENT METHODS TO GUIDE ARCHITECTURAL DECISION-MAKING FOR SUSTAINABLE PREFABRICATED MODULAR BUILDINGS. <b>2012</b> , 7, 151-170	39
103	Reduced carbon footprints of buildings: new Finnish standards and assessments. <b>2020</b> , 1, 182-197	15
102	LCA/LCC analysis of starting-lighting-ignition lead-acid battery in China. 2018, 6, e5238	2
101	Evaluating the temporal representativeness of embodied energy data: A case study of higher education buildings. <b>2022</b> , 254, 111596	1
100	Experimental study and Life Cycle Assessment of biomass small-scale trigeneration plant. <i>Journal of Cleaner Production</i> , <b>2021</b> , 326, 129234	2
99	Qualitative Affects of Building Life Cycle: The Formation of Architectural Matter. <b>2014</b> , 101-113	
98	A Framework to Explore Energy Saving Measures During Construction Phase. <b>2014</b> , 987-999	
97	Comparative life cycle assessment of four insulating boards made with natural and recycled materials. <b>2016</b> , 71-88	

96	Definition and Frameworks on a Life-Cycle Negative Growth Rate for Energy and Carbon in an Academic Campus. <b>2017</b> , 325-339		
95	Embodied Carbon of Wood and Reinforced Concrete Structures Under Chronic and Acute Hazards. <b>2018</b> , 77-103		1
94	Embodied Carbon Research and Practice: Different Ends and Means or a Third Way. 2018, 191-215		
93	A Proposition to Extend CityGML and ADE Energy Standards for Exchanging Information for LCA Simulation at Urban Scale. <b>2018</b> , 281-291		
92	Organic Stabilisers in Traditional Mud Homes of India. <b>2019</b> , 175-189		
91	Environmental Impact Analysis of Wood and Natural Fiber Bio-Composites. <b>2019</b> , 153-170		
90	Integrating Performance Measurement Systems Into the Global Lean and Sustainable Construction Supply Chain Management. <b>2019</b> , 259-277		
89	Responsible Consumption and Production. <b>2020</b> , 1-10		
88	Responsible Consumption and Production. <b>2020</b> , 723-732		
87	Life Cycle Assessment in Sustainable Manufacturing: A Review and Further Direction. <b>2021</b> , 191-203		1
86	Experiencing Life Cycle Assessment in Indian Additive Manufacturing Industries: Needs, Challenges and Solutions. <b>2022</b> , 67-77		
85	Life-cycle assessment of non-domestic building stocks: A meta-analysis of current modelling methods. <b>2022</b> , 153, 111743		
84	Design Strategies for Green/Energy-Efficient Building Design: An Apartment Building in the Gaziantep Project. <b>2020</b> , 219-231		
83	Industrial Practices in Sustainability. <b>2020</b> , 313-338		1
82	Residential Construction with a Focus on Evaluation of the Life Cycle of Buildings. <i>Buildings</i> , <b>2021</b> , 11, 524	3.2	5
81	Clusters of key barriers to life cycle assessment adoption in the South African construction industry: perspectives of stakeholders. <b>2021</b> , 19, 888-903		Ο
80	Machine learning modeling integrating experimental analysis for predicting the properties of sugarcane bagasse ash concrete. <b>2022</b> , 314, 125634		2
79	Auditing carbon reduction potential of green concrete using life cycle assessment methodology. <b>2021</b> , 850, 012002		

78	Environmental Sustainability Approaches and Positive Energy Districts: A Literature Review. <i>Sustainability</i> , <b>2021</b> , 13, 13063	3.6	4
77	BIM-based ontology for sustainability-oriented building construction. <b>2021</b> ,		
76	LCA & LCC analysis of hybrid glued laminated Timber Concrete composite floor slab system. <i>Journal of Building Engineering</i> , <b>2022</b> , 49, 104005	5.2	О
75	Green Mortgages, EU Taxonomy and Environment Risk Weigthed Assets: A Key Link for the Transition. <i>Sustainability</i> , <b>2022</b> , 14, 1633	3.6	1
74	Rice Husk Ash Incorporation in Calcium Aluminate Cement Concrete: Life Cycle Assessment, Hydration and Strength Development. <i>Sustainability</i> , <b>2022</b> , 14, 1012	3.6	3
73	A Sustainable approach to reduce Embodied and Operational Cooling Energy for an Elevated Metro Rail Station of Ahmedabad, India, using Building Information Modelling (BIM) and Factor Comparison Method. <b>2022</b> , 103, 115		O
72	Whole building life cycle assessment at the design stage: a BIM-based framework using environmental product declaration. <b>2022</b> , ahead-of-print,		2
71	A Comparative Study on the Life Cycle Assessment of New Zealand Residential Buildings. <i>Buildings</i> , <b>2022</b> , 12, 50	3.2	9
70	The evolution of embodied energy in andean residential buildings. Methodology applied to Cuenca-Ecuador. <b>2022</b> , 259, 111858		3
69	A review of comprehensiveness, user-friendliness, and contribution for sustainable design of whole building environmental life cycle assessment software tools. <b>2022</b> , 212, 108784		1
68	Initial or recurring embodied energy: Importance in Indian affordable housing. <i>Journal of Building Engineering</i> , <b>2022</b> , 49, 104072	5.2	О
67	Uncertainties in whole-building life cycle assessment: A systematic review. <i>Journal of Building Engineering</i> , <b>2022</b> , 50, 104191	5.2	2
66	Life Cycle Assessment, Recycling and Re-Use of the Bionanocomposites. 2022, 205-216		О
65	Tiered Quantitative Assessment of Life Cycle Sustainability and Resilience (TQUALICSR): Framework for Design of Engineering Projects. <b>2022</b> , 1-19		
64	Enablers for facilitating life cycle assessment: key stakeholder perspectives of Sri Lankan construction industry. <b>2022</b> , ahead-of-print,		
63	The Evolution of Life Cycle Assessment Approach: A Review of Past and Future Prospects. <b>2022</b> , 992, 012002		
62	A Review of the Environmental Impact of Buildings with an Emphasis on Performance Assessment Tools and Their Incorporation of LCA. <b>2022</b> , 2022, 1-22		О
61	LCA on Construction and Demolition Waste Management Approaches: A review. <i>Materials Today: Proceedings</i> , <b>2022</b> ,	1.4	1

60	Analyzing the Climate Change Potential of Residential Steel Buildings in New Zealand and Their Alignment in Meeting the 2050 Paris Agreement Targets. <i>Buildings</i> , <b>2022</b> , 12, 290	3.2	1
59	Introduction. <b>2022</b> , 359-370		
58	Low-energy buildings in combination with grid decarbonization, life cycle assessment of passive house buildings in Northern Ireland. <b>2022</b> , 261, 111936		2
57	Challenges in implementing data-driven approaches for building life cycle energy assessment: A review. <b>2022</b> , 160, 112327		O
56	Influence of micro Fe2O3 and MgO on the physical and mechanical properties of the zeolite and kaolin based geopolymer mortar. <i>Journal of Building Engineering</i> , <b>2022</b> , 52, 104443	5.2	2
55	Knowledge Management and Experience Transfer in Major Maintenance Activities: A Practitioner Perspective. <i>Sustainability</i> , <b>2022</b> , 14, 52	3.6	O
54	Blockchain Technology in Life Cycle AssessmentNew Research Trends. <i>Energies</i> , <b>2021</b> , 14, 8292	3.1	1
53	The impact of environmental management on firm performance in the U.S. lodging REITs: The moderating role of outside board of directors. <i>Tourism Economics</i> , 135481662110590	3.1	
52	Life cycle assessment of a prefabricated house for seven locations in different climates. <i>Journal of Building Engineering</i> , <b>2022</b> , 104504	5.2	0
51	Is there a need for new kitchen design? Assessing the adaptative capacity of space to enable circularity in multiresidential buildings. <i>Frontiers of Architectural Research</i> , <b>2022</b> ,	2.3	O
50	A review on structural performance of geopolymer beam and geopolymer for strengthening the beam. <i>Materials Today: Proceedings</i> , <b>2022</b> ,	1.4	
49	Comparative life cycle assessment of large-scale 3D printing utilizing kaolinite-based calcium sulfoaluminate cement concrete and conventional construction. <i>Cleaner Environmental Systems</i> , <b>2022</b> , 100078	2	O
48	Major Building Materials in Terms of Environmental Impact Evaluation of School Buildings in South Korea. <i>Buildings</i> , <b>2022</b> , 12, 498	3.2	
47	Waste Management in a Sustainable Circular Economy as a Part of Design of Construction. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4553	2.6	1
46	A multidimensional scorecard of KPIs for retrofit measures of buildings: A systematic literature review. <i>Corporate Social Responsibility and Environmental Management</i> ,	7	
45	A comparative LCA study of passive cooling roof materials for a residential building: An Indian Case study. <i>Materials Today: Proceedings</i> , <b>2022</b> ,	1.4	2
44	Comparative life cycle assessment (LCA) of concrete mixtures: a critical review. <i>European Journal of Environmental and Civil Engineering</i> , 1-19	1.5	
43	Examination of The Usage of Visual Programming Languages (VPL) In Calculat <b>ö</b> n of Environmental Impact in The Architectural Design Process. <i>Kent Akademisi</i> ,	Ο	

42	Life Cycle Assessment of Construction and Demolition Waste Management in Riyadh, Saudi Arabia. <i>International Journal of Environmental Research and Public Health</i> , <b>2022</b> , 19, 7382	4.6	1
41	Algal Life Cycle Analysis and Its Contribution to the Circular Economy. <i>Impact of Meat Consumption on Health and Environmental Sustainability</i> , <b>2022</b> , 256-286	0.3	
40	Economic and environmental aspects of warm mix asphalt mixtures: A comparative analysis. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2022</b> , 109, 103355	6.4	0
39	Environmental full cost accounting of alternative materials used for railroad ties: Treated-wood and concrete case study. <i>Journal of Cleaner Production</i> , <b>2022</b> , 364, 132536	10.3	O
38	Industry and environmental life-cycle assessment: background and perspective. 2022, 275-287		
37	Ecological comparison of hygrothermally safe floor constructions based on renewable raw materials for multi-storey buildings. <i>Journal of Building Engineering</i> , <b>2022</b> , 57, 104899	5.2	2
36	Life cycle assessment of radioactive materials from a residential neighbourhood. <i>Sustainable Materials and Technologies</i> , <b>2022</b> , 33, e00468	5.3	
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22	A worldwide development in the accumulation of waste tires and its utilization in concrete as a sustainable construction material: A review. <b>2022</b> , e01677	0
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20	What we learn is what we earn from sustainable and circular construction. 2023, 382, 135183	0
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