List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Design of environmentally conscious absorption cooling systems via multi-objective optimization and life cycle assessment. Applied Energy, 2009, 86, 1712-1722.	5.1	180
2	Integrated gasification combined cycle (IGCC) process simulation and optimization. Computers and Chemical Engineering, 2010, 34, 331-338.	2.0	172
3	Exergy analysis of multi-effect water–LiBr absorption systems: From half to triple effect. Renewable Energy, 2010, 35, 1773-1782.	4.3	139
4	Comparative life cycle assessment of thermal energy storage systems for solar power plants. Renewable Energy, 2012, 44, 166-173.	4.3	134
5	Life Cycle Assessment of the inclusion of phase change materials (PCM) in experimental buildings. Energy and Buildings, 2010, 42, 1517-1523.	3.1	128
6	Circular economy in the building and construction sector: A scientific evolution analysis. Journal of Building Engineering, 2021, 44, 102704.	1.6	122
7	Optimized demand side management (DSM) of peak electricity demand by coupling low temperature thermal energy storage (TES) and solar PV. Applied Energy, 2018, 211, 604-616.	5.1	113
8	Multi-objective optimization of solar Rankine cycles coupled with reverse osmosis desalination considering economic and life cycle environmental concerns. Desalination, 2012, 286, 358-371.	4.0	106
9	Multi-objective optimization coupled with life cycle assessment for retrofitting buildings. Energy and Buildings, 2014, 82, 92-99.	3.1	83
10	Enhanced thermal energy supply via central solar heating plants with seasonal storage: A multi-objective optimization approach. Applied Energy, 2016, 181, 549-561.	5.1	78
11	Environmental performance of recycled rubber as drainage layer in extensive green roofs. A comparative Life Cycle Assessment. Building and Environment, 2014, 74, 22-30.	3.0	72
12	Evaluation of the environmental impact of experimental buildings with different constructive systems using Material Flow Analysis and Life Cycle Assessment. Applied Energy, 2013, 109, 544-552.	5.1	67
13	Life Cycle Assessment of alveolar brick construction system incorporating phase change materials (PCMs). Applied Energy, 2013, 101, 600-608.	5.1	65
14	Material flow analysis of the residential building stock at the city of Rio de Janeiro. Journal of Cleaner Production, 2017, 149, 1249-1267.	4.6	64
15	A systematic tool for the minimization of the life cycle impact of solar assisted absorption cooling systems. Energy, 2010, 35, 3849-3862.	4.5	63
16	Evaluation of the environmental impact of experimental cubicles using Life Cycle Assessment: A highlight on the manufacturing phase. Applied Energy, 2012, 92, 534-544.	5.1	62
17	Multi-objective optimisation of bio-based thermal insulation materials in building envelopes considering condensation risk. Applied Energy, 2018, 224, 602-614.	5.1	60
18	Life Cycle Assessment of experimental cubicles including PCM manufactured from natural resources (esters): A theoretical study. Renewable Energy, 2013, 51, 398-403.	4.3	57

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19	Multi-objective design of reverse osmosis plants integrated with solar Rankine cycles and thermal energy storage. Applied Energy, 2013, 102, 1137-1147.	5.1	56
20	Embodied energy in thermal energy storage (TES) systems for high temperature applications. Applied Energy, 2015, 137, 793-799.	5.1	56
21	Multi-objective optimization of thermal modelled cubicles considering the total cost and life cycle environmental impact. Energy and Buildings, 2015, 88, 335-346.	3.1	56
22	Performance of double effect absorption compression cycles for air-conditioning using methanol–TEGDME and TFE–TEGDME systems as working pairs. International Journal of Refrigeration, 1998, 21, 542-555.	1.8	47
23	Life cycle assessment of a ventilated facade with PCM in its air chamber. Solar Energy, 2014, 104, 115-123.	2.9	47
24	Optimization of three new compositions of stabilized rammed earth incorporating PCM: Thermal properties characterization and LCA. Construction and Building Materials, 2013, 47, 872-878.	3.2	45
25	A bibliometric analysis of trends in solar cooling technology. Solar Energy, 2020, 199, 100-114.	2.9	44
26	Life cycle costing as a bottom line for the life cycle sustainability assessment in the solar energy sector: A review. Solar Energy, 2019, 192, 238-262.	2.9	42
27	Life Cycle Impact Assessment of masonry system as inner walls: A case study in Brazil. Construction and Building Materials, 2014, 70, 141-147.	3.2	39
28	Flexible heat pump integration to improve sustainable transition toward 4th generation district heating. Energy Conversion and Management, 2020, 225, 113379.	4.4	39
29	On the use of filters to facilitate the post-optimal analysis of the Pareto solutions in multi-objective optimization. Computers and Chemical Engineering, 2015, 74, 48-58.	2.0	38
30	Systematic approach for the life cycle multi-objective optimization of buildings combining objective reduction and surrogate modeling. Energy and Buildings, 2016, 130, 506-518.	3.1	38
31	Solar assisted absorption cooling cycles for reduction of global warming: A multi-objective optimization approach. Solar Energy, 2012, 86, 2083-2094.	2.9	37
32	Economic performance optimization of an absorption cooling system under uncertainty. Applied Thermal Engineering, 2009, 29, 3491-3500.	3.0	34
33	Minimization of the LCA impact of thermodynamic cycles using a combined simulation-optimization approach. Applied Thermal Engineering, 2012, 48, 367-377.	3.0	34
34	Economic and environmental potential for solar assisted central heating plants in the EU residential sector: Contribution to the 2030 climate and energy EU agenda. Applied Energy, 2019, 236, 318-339.	5.1	33
35	Densities, viscosities, and enthalpies of mixing of the binary system methanol + polyethylene glycol 250 dimethyl ether at 303.15 K. Journal of Chemical & Engineering Data, 1994, 39, 767-769.	1.0	32
36	Uncertainty propagation and sensitivity analysis of thermo-physical properties of phase change materials (PCM) in the energy demand calculations of a test cell with passive latent thermal storage. Applied Thermal Engineering, 2015, 90, 596-608.	3.0	30

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37	Uncovering relationships between environmental metrics in the multi-objective optimization of energy systems: A case study of a thermal solar Rankine reverse osmosis desalination plant. Energy, 2013, 51, 50-60.	4.5	29
38	Stabilized rammed earth incorporating PCM: Optimization and improvement of thermal properties and Life Cycle Assessment. Energy Procedia, 2012, 30, 461-470.	1.8	28
39	Industrial heat recovery by absorption/compression heat pump using TFE–H2O–TEGDME working mixture. Applied Thermal Engineering, 2000, 20, 355-369.	3.0	26
40	Optimum heat exchanger area estimation using coefficients of structural bonds: Application to an absorption chiller. International Journal of Refrigeration, 2010, 33, 529-537.	1.8	26
41	Life cycle assessment (LCA) of a pneumatic municipal waste collection system compared to traditional truck collection. Sensitivity study of the influence of the energy source. Journal of Cleaner Production, 2019, 231, 1122-1135.	4.6	25
42	A framework for the optimal integration of solar assisted district heating in different urban sized communities: A robust machine learning approach incorporating global sensitivity analysis. Applied Energy, 2020, 267, 114903.	5.1	25
43	Solar-driven absorption cycle for space heating and cooling. Applied Thermal Engineering, 2020, 168, 114836.	3.0	21
44	Approach for the analysis of TES technologies aiming towards a circular economy: Case study of building-like cubicles. Renewable Energy, 2020, 150, 589-597.	4.3	21
45	Reducing the cost, environmental impact and energy consumption of biofuel processes through heat integration. Chemical Engineering Research and Design, 2015, 93, 203-212.	2.7	20
46	Combined simulation–optimization methodology for the design of environmental conscious absorption systems. Computers and Chemical Engineering, 2012, 46, 205-216.	2.0	19
47	Eco-costs evaluation for the optimal design of buildings with lower environmental impact. Energy and Buildings, 2016, 119, 189-199.	3.1	18
48	A real-time diagnostic tool for evaluating the thermal performance of nearly zero energy buildings. Applied Energy, 2021, 281, 116091.	5.1	14
49	Self-consumption possibilities by rooftop PV and building retrofit requirements for a regional building stock: The case of Catalonia. Solar Energy, 2022, 238, 150-161.	2.9	14
50	An Inquiry into the Life Cycle of Systems of Inner Walls: Comparison of Masonry and Drywall. Sustainability, 2015, 7, 7904-7925.	1.6	13
51	Systematic combination of insulation biomaterials to enhance energy and environmental efficiency in buildings. Construction and Building Materials, 2021, 267, 120973.	3.2	13
52	A framework for sustainable evaluation of thermal energy storage in circular economy. Renewable Energy, 2021, 175, 686-701.	4.3	13
53	Techno-economic analysis of control strategies for heat pumps integrated into solar district heating systems. Journal of Energy Storage, 2021, 42, 103011.	3.9	12
54	Sustainability insights on emerging solar district heating technologies to boost the nearly zero energy building concept. Renewable Energy, 2021, 180, 893-913.	4.3	12

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55	Absorption of organic fluid mixtures in plate heat exchangers. International Journal of Thermal Sciences, 2003, 42, 85-94.	2.6	9
56	Life Cycle Assessment: A Comparison of Ceramic Brick Inventories to Subsidize the Development of Databases in Brazil. Applied Mechanics and Materials, 0, 431, 370-377.	0.2	7
57	Economic Optimization of the Energy Supply for a Logistics Center Considering Variable-Rate Energy Tariffs and Integration of Photovoltaics. Applied Sciences (Switzerland), 2019, 9, 4711.	1.3	6
58	Life Cicle Inventory for Lead Azide Manufacture. Journal of Aerospace Technology and Management, 2014, 6, 53-60.	0.3	5
59	Framework for a Systematic Parametric Analysis to Maximize Energy Output of PV Modules Using an Experimental Design. Sustainability, 2019, 11, 2992.	1.6	5
60	Reducing the Life Cycle Environmental Impact of Buildings Following a Simulation-Optimization Approach. , 2017, , 823-839.		4
61	Multi-objective optimization of solar assisted absorption cooling system. Computer Aided Chemical Engineering, 2010, , 1033-1038.	0.3	3
62	Design of environmentally friendly absorption cooling systems via multi-objective optimization and life cycle assessment. Computer Aided Chemical Engineering, 2009, 26, 1099-1103.	0.3	2
63	Quality Indicators for Life Cycle Inventory: Real Cases Exploratory Application. Applied Mechanics and Materials, 0, 431, 350-355.	0.2	2
64	What, if Anything, is a Chemical Engineer?. Computer Aided Chemical Engineering, 2009, , 2121-2126.	0.3	1
65	Modelling and optimization framework for the multi-objective design of buildings. Computer Aided Chemical Engineering, 2016, , 883-888.	0.3	1
66	Cost-Effective Processes of Solar District Heating System Based on Optimal Artificial Neural Network. Computer Aided Chemical Engineering, 2020, 48, 403-408.	0.3	1
67	Sustainability Aspects of Thermal Energy Storage Systems. , 2020, , .		1
68	Targeting Energy Efficiency through Air Conditioning Operational Modes for Residential Buildings in Tropical Climates, Assisted by Solar Energy and Thermal Energy Storage. Case Study Brazil. Sustainability, 2021, 13, 12831.	1.6	1
69	Integrating process simulation and MINLP methods for the optimal design of absorption cooling systems. Computer Aided Chemical Engineering, 2011, , 301-305.	0.3	0
70	Systematic generation of insulation materials via DEA and Building modelling. Computer Aided Chemical Engineering, 2018, 43, 457-462.	0.3	0
71	Optimization of Time-Of-Use Tariffs Demand Side Management Coupled with Cold Thermal Energy Storage (TES) and Solar PV to Reduce On-Peak Demand. , 2016, , .		0
72	Price-Based Demand Side Management (DSM) Coupled with Cold Thermal Energy Storage (TES) and Solar PV for Peak-Load Reduction. , 2017, , .		0

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73	A Multicriteria Approach to Evaluate Solar Assisted District Heating in the German Market. , 2020, , .		0