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Building energy-consumption status worldwide and the state-of-the-art technologies for zero-energy buildings during the past decade

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693	Investigation of the moisture induced degradation of the thermal properties of aerogel blankets: Measurements, calculations, simulations. <i>Energy and Buildings</i> , <b>2017</b> , 139, 506-516	7	52
692	Demand Side Management in Microgrids for Load Control in Nearly Zero Energy Buildings. <b>2017</b> , 53, 1769-1779		48
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689	Life-cycle cost analyses of heat pump concepts for Finnish new nearly zero energy residential buildings. <i>Energy and Buildings</i> , <b>2017</b> , 150, 396-402	7	28
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# (2020-2020)

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# (2021-2021)

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311	Sustainable hydrogen roadmap: A holistic review and decision-making methodology for production, utilisation and exportation using Qatar as a case study. <b>2021</b> ,		16
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304	Parametric investigation of alkhilled water district cooling unit using mono and hybrid nanofluids. <b>2021</b> , 11, 19227		2
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84	Thermal Study of Clay Bricks Reinforced by Dry-Grass Fibers. <b>2023</b> , 149,	0
83	3-E feasibility analysis on photovoltaic/thermal application for residential buildings: a case study of Sub-Saharan Africa. <b>2022</b> , 44, 9901-9919	O

82	What It Takes to Go Net Zero: Why Arene We There Yet?. 2023, 195-212	О
81	Sol-gel-based porous Ti-doped tungsten oxide films for high-performance dual-band electrochromic smart windows. <b>2022</b> ,	1
80	Sensor network driven novel hybrid model based on feature selection and SVR to predict indoor temperature for energy consumption optimisation in smart buildings.	0
79	Experimental test on the performance of a B0 LC cascade refrigeration unit using refrigerants R290-R170 for COVID-19 vaccines storage. <b>2022</b> , 105537	O
78	Color-tunable transparent photovoltaics for onsite power production under sunlight and indoor light. <b>2022</b> , 101203	0
77	Review and outlook of global energy use under the impact of COVID -19.	O
76	Adjustable Robust Scheduling of Commercial HVAC under Weather Uncertainty. 2022,	0
75	Control and monitoring of household load electricity consumption based on ANTARES platforms. <b>2022</b> ,	O
74	Effectiveness assessment of different kinds/configurations of phase-change materials (PCM) for improving the thermal performance of lightweight building walls in summer and winter. <b>2023</b> , 202, 721-735	1
73	Dynamic optimization for minimal HVAC demand with latent heat storage, heat recovery, natural ventilation, and solar shadings. <b>2023</b> , 276, 116573	0
72	Energy management of the grid-connected residential photovoltaic-battery system using model predictive control coupled with dynamic programming. <b>2023</b> , 279, 112712	0
71	Estimation of outdoor design dataset based on interdependency of multiple meteorological elements by using vine copulas. <b>2023</b> , 280, 112724	O
70	The viability of double-skin fallde systems in the 21st century: A systematic review and meta-analysis of the nexus of factors affecting ventilation and thermal performance, and building integration. <b>2023</b> , 228, 109870	0
69	Passive energy-saving buildings realized by the combination of transparent heat-shielding glass and energy storage cement. <b>2023</b> , 365, 130023	O
68	Room Occupancy Prediction Leveraging LSTM: An Approach for Cognitive and Self-Adapting Buildings. <b>2023</b> , 197-219	0
67	Net-Zero Energy and Low Carbon Footprint in Residential Buildings in Tropical Regions. <b>2023</b> , 61-70	O
66	Systematic Review on Deep Reinforcement Learning-Based Energy Management for Different Building Types. <b>2022</b> , 15, 8663	0
65	Luminescent light diffuser for diffuse lighting applications.	Ο

# (2023-2022)

64	Exploring the link between the EU emissions trading system and net-zero emission neighbourhoods. <b>2022</b> , 112731	0
63	Energy Balance Data-Based Optimization of Louver Installation Angles for Different Regions in Korea. <b>2022</b> , 15, 9214	O
62	Case Study: TIFAIN Facade. <b>2023</b> , 177-213	0
61	Computational Optimization of 3D-Printed Concrete Walls for Improved Building Thermal Performance. <b>2022</b> , 12, 2267	1
60	Exergoeconomic Analysis of a Variable Area Solar Ejector Refrigeration System under Hot Climatic Conditions. <b>2022</b> , 15, 9540	O
59	Understanding EmployeesEnergy Saving in the Workplace: DR and the PhilippinesRealities. <b>2023</b> , 16, 49	O
58	Thermal Performance of Starch/Beet-pulp Composite Bricks for Building Insulation at a Wall Scale. <b>2023</b> , e01851	O
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56	Influence of Roller Blinds Shading Strategy on West and South Facing Buildings. 2023, 16, 711	O
55	Artificial Intelligence and Machine Learning for Energy Consumption and Production in Emerging Markets: A Review. <b>2023</b> , 16, 745	O
54	The Development of an Energy Efficient Temperature Controller for Residential Use and Its Generalization Based on LSTM. <b>2023</b> , 23, 453	O
53	A comprehensive review of the synthesis strategies, properties, and applications of transparent wood as a renewable and sustainable resource. <b>2023</b> , 864, 161067	2
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51	An investigation of optimal power system designs for a net zero energy house: A case study of Kahramanmaras.	O
50	Adopting passive design strategies: A brief review. <b>2023</b> ,	O
49	Study of Energy Saving Using Silica Aerogel Insulation in a Residential Building. <b>2023</b> , 9, 86	O
48	A numerical study on the relationship between particle dispersion, accumulation, and indoor airflow in different ventilated rooms. <b>2023</b> , 6,	О
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46	Field studies on the energy consumption and thermal comfort of a nZEB using radiant ceiling panel and open-loop groundwater heat pump system in a cold region. <b>2023</b> , 67, 105999	2
45	Comparative analysis and optimization of the annual performance for a novel internet data center cooling system. <b>2023</b> , 67, 106064	O
44	A thermochromic poplar-based tetradecyl ester/methyl composite encapsulated with PEG400BiO2 (PS-R-PTC) for improving thermal energy storage. <b>2023</b> , 13, 11728-11732	О
43	Multi-objective optimization of shading devices using ensemble machine learning and orthogonal design of experiments. <b>2023</b> , 283, 112840	O
42	A theoretical model of natural ventilation enhanced by solar thermal energy in double-skin fallde. <b>2023</b> , 127534	О
41	Autogenous self-healing of low embodied energy cementitious materials: Effect of multi-component binder and crack geometry. <b>2023</b> , 376, 130994	O
40	Short- and long-term forecasting for building energy consumption considering IPMVP recommendations, WEO and COP27 scenarios. <b>2023</b> , 339, 120980	О
39	Performance assessment of Trombe wall and south fallde as applications of building integrated photovoltaic systems. <b>2023</b> , 57, 103141	0
38	Experimental investigation on electrical power and thermal energy storage performance of a solar hybrid PV/T-PCM energy conversion system. <b>2023</b> , 69, 106271	О
37	Multistimuli-responsive smart windows based on paraffin-polymer composites. <b>2023</b> , 463, 142390	O
36	Evaluation of the thermo-physical, mechanical, and fire resistance performances of limestone calcined clay cement (LC3)-based lightweight rendering mortars. <b>2023</b> , 71, 106495	О
35	Numerical analysis of low-cost optimization measures for improving energy efficiency in residential buildings. <b>2023</b> , 273, 127257	O
34	Predicting the response of heating and cooling demands of residential buildings with various thermal performances in China to climate change. <b>2023</b> , 269, 126789	О
33	Phase change temperature adjustment of CH3COONaBH2O to fabricate composite phase change material for radiant floor heating. <b>2023</b> , 42, 102773	O
32	High-transmittance pNIPAm gel smart windows with lower response temperature and stronger solar regulation. <b>2023</b> , 460, 141572	О
31	Energy-Saving Design Strategies of Zero-Energy Solar Buildings A Case Study of the Third Solar Decathlon China. <b>2023</b> , 13, 405	О
30	Appraisal of indoor environment quality (IEQ) in nearly Zero energy Building (nZEB): A literature review. <b>2023</b> , 29, 251-267	О
29	Hot Topics and Trends in Zero-Energy Building Research Bibliometrical Analysis Based on CiteSpace. <b>2023</b> , 13, 479	O

#### (2023-2023)

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27	Numerical study on the thermal and electrical performance of a novel MCHP PV-Trombe wall system. <b>2023</b> , 269, 126941	Ο
26	Thermal energy storage using phase change materials in building applications: A review of the recent development. <b>2023</b> , 285, 112908	0
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21	Passive building design for improving indoor thermal comfort in tropical climates: A bibliometric analysis using CiteSpace. 1420326X2311585	O
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19	Simulation of Integrated Ground Source Heat Pump and Solar Photovoltaic-Thermal System and Feasibility Study in Europe. <b>2022</b> ,	O
18	Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources. <b>2023</b> , 13, 796	O
17	Preparation of lightweight ceramsite from remediated soil, waste glass and ceramics. 2023, 18, 348-353	О
16	An open-source framework for simulation-based testing of buildings control strategies. 1-13	0
15	Study on the performance of an ultra-low energy building in the Qinghai-Tibet Plateau of China. <b>2023</b> , 70, 106345	O
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9	Holistic yield modeling, top-down loss analysis, and efficiency potential study of thin-film solar modules. <b>2023</b> , 6,	O
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2	Impact of green retrofits on heating energy consumption of apartment buildings based on nationwide energy database in South Korea. <b>2023</b> , 292, 113142	0
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