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An integrated multi-objective optimization model for determining the optimal solution in the solar thermal energy system

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#	Paper	IF	Citations
21	Establishment of an optimal occupant behavior considering the energy consumption and indoor environmental quality by region. <i>Applied Energy</i> , <b>2017</b> , 204, 1431-1443	10.7	31
20	Genetic algorithm for optimization of energy systems: Solution uniqueness, accuracy, Pareto convergence and dimension reduction. <i>Energy</i> , <b>2017</b> , 119, 167-177	7.9	25
19	An integrated psychological response score of the occupants based on their activities and the indoor environmental quality condition changes. <i>Building and Environment</i> , <b>2017</b> , 123, 66-77	6.5	26
18	Advanced Strategies for Net-Zero Energy Building: Focused on the Early Phase and Usage Phase of a Building's Life Cycle. <i>Sustainability</i> , <b>2017</b> , 9, 2272	3.6	19
17	Composite metric for simultaneous technical and economic analysis and optimization of energy conversion processes. <i>Journal of Cleaner Production</i> , <b>2018</b> , 179, 266-277	10.3	4
16	Integrated task performance score for the building occupants based on the CO2 concentration and indoor climate factors changes. <i>Applied Energy</i> , <b>2018</b> , 228, 1707-1713	10.7	18
15	Building integration of solar thermal systems-example of a refurbishment of a church rectory. <i>Renewable Energy</i> , <b>2019</b> , 137, 67-81	8.1	6
14	An optimal implementation strategy of the multi-function window considering the nonlinearity of its technical-environmental-economic performance by window ventilation system size. <i>Building and Environment</i> , <b>2019</b> , 161, 106234	6.5	2
13	Development of a multi-objective optimization model for determining the optimal CO2 emissions reduction strategies for a multi-family housing complex. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 110, 118-131	16.2	15
12	Analyzing the real-time indoor environmental quality factors considering the influence of the building occupants' behaviors and the ventilation. <i>Building and Environment</i> , <b>2019</b> , 156, 99-109	6.5	16
11	Techno-economic performance analysis of the smart solar photovoltaic blinds considering the photovoltaic panel type and the solar tracking method. <i>Energy and Buildings</i> , <b>2019</b> , 193, 1-14	7	19
10	A multi-objective optimization model for determining the building design and occupant behaviors based on energy, economic, and environmental performance. <i>Energy</i> , <b>2019</b> , 174, 823-834	7.9	34
9	Multi-criteria decision support system of the photovoltaic and solar thermal energy systems using the multi-objective optimization algorithm. <i>Science of the Total Environment</i> , <b>2019</b> , 659, 1100-1114	10.2	9
8	A new approach for developing a hybrid sun-tracking method of the intelligent photovoltaic blinds considering the weather condition using data mining technique. <i>Energy and Buildings</i> , <b>2020</b> , 209, 109708	7	5
7	Intelligent planning unit for the artificial intelligent based built environment focusing on human-building interaction. <i>Journal of Asian Architecture and Building Engineering</i> , <b>2020</b> , 1-18	1	2
6	The calculation of solar energy used by hot water systems in permafrost region: An experimental case study for Yakutia. <i>Energy</i> , <b>2020</b> , 210, 118577	7.9	5
5	An integrated psychological score for occupants based on their perception and emotional response according to the windows' outdoor view size. <i>Building and Environment</i> , <b>2020</b> , 180, 107019	6.5	7

4	Determining the optimal set-point temperature considering both labor productivity and energy saving in an office building. <i>Applied Energy</i> , <b>2020</b> , 276, 115429	10.7	7
3	Optimal technical and economic strategy for retrofitting residential buildings in Romania. <i>Proceedings of the International Conference on Business Excellence</i> , <b>2017</b> , 11, 146-156	0.3	
2	Exergetic optimization of simple and finned solar air collectors for humid subtropical regions.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	0
1	Life-cycle economic assessment for establishing the optimal government solar subsidy program in South Korea. <b>2022</b> , 272, 112342		0