

Mohamed Hamdy

List of Publications by Citations

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

39
papers

1,661
citations

16
h-index

39
g-index

39
ext. papers

1,955
ext. citations

5.5
avg, IF

5.38
L-index

#	Paper	IF	Citations
39	A multi-stage optimization method for cost-optimal and nearly-zero-energy building solutions in line with the EPBD-recast 2010. <i>Energy and Buildings</i> , 2013 , 56, 189-203	7	289
38	Assessing gaps and needs for integrating building performance optimization tools in net zero energy buildings design. <i>Energy and Buildings</i> , 2013 , 60, 110-124	7	253
37	A performance comparison of multi-objective optimization algorithms for solving nearly-zero-energy-building design problems. <i>Energy and Buildings</i> , 2016 , 121, 57-71	7	185
36	Applying a multi-objective optimization approach for Design of low-emission cost-effective dwellings. <i>Building and Environment</i> , 2011 , 46, 109-123	6.5	161
35	A new methodology for investigating the cost-optimality of energy retrofitting a building category. <i>Energy and Buildings</i> , 2015 , 107, 456-478	7	130
34	Comparison of the energy saving potential of adaptive and controllable smart windows: A state-of-the-art review and simulation studies of thermochromic, photochromic and electrochromic technologies. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109828	6.4	91
33	The impact of climate change on the overheating risk in dwellings – A Dutch case study. <i>Building and Environment</i> , 2017 , 122, 307-323	6.5	74
32	Researching social acceptability of renewable energy technologies in Finland. <i>International Journal of Sustainable Built Environment</i> , 2013 , 2, 89-98		68
31	Social acceptance of renewable energy technologies for buildings in the Helsinki Metropolitan Area of Finland. <i>Renewable Energy</i> , 2016 , 99, 813-824	8.1	47
30	Impact of adaptive thermal comfort criteria on building energy use and cooling equipment size using a multi-objective optimization scheme. <i>Energy and Buildings</i> , 2011 , 43, 2055-2067	7	46
29	Impact of financial assumptions on the cost optimality towards nearly zero energy buildings – A case study. <i>Energy and Buildings</i> , 2017 , 153, 421-438	7	36
28	The performance of small scale multi-generation technologies in achieving cost-optimal and zero-energy office building solutions. <i>Applied Energy</i> , 2015 , 152, 94-108	10.7	36
27	A performance comparison of multi-objective optimization-based approaches for calibrating white-box building energy models. <i>Energy and Buildings</i> , 2020 , 216, 109942	7	34
26	Multi-objective optimisation of an interactive buildings-vehicles energy sharing network with high energy flexibility using the Pareto archive NSGA-II algorithm. <i>Energy Conversion and Management</i> , 2020 , 218, 113017	10.6	25
25	A multi-aid optimization scheme for large-scale investigation of cost-optimality and energy performance of buildings. <i>Journal of Building Performance Simulation</i> , 2016 , 9, 411-430	2.8	20
24	A robustness-based decision making approach for multi-target high performance buildings under uncertain scenarios. <i>Applied Energy</i> , 2020 , 267, 114868	10.7	17
23	Multi-Objective Optimization of Building Energy Design to Reconcile Collective and Private Perspectives: CO2-eq vs. Discounted Payback Time. <i>Energies</i> , 2017 , 10, 1016	3.1	16

22	Resilient cooling of buildings to protect against heat waves and power outages: Key concepts and definition. <i>Energy and Buildings</i> , 2021 , 239, 110869	7	16
21	The Impact of Insulation and HVAC Degradation on Overall Building Energy Performance: A Case Study. <i>Buildings</i> , 2018 , 8, 23	3.2	13
20	Twenty-year tracking of lighting savings and power density in the residential sector. <i>Energy and Buildings</i> , 2017 , 154, 113-126	7	13
19	Impact of building envelope and mechanical component degradation on the whole building performance: a review paper. <i>Energy Procedia</i> , 2017 , 132, 321-326	2.3	13
18	Optimum design of a house and its HVAC systems using simulation-based optimisation. <i>International Journal of Low-Carbon Technologies</i> , 2010 , 5, 120-124	2.8	13
17	Methodology to assess business models of dynamic pricing tariffs in all-electric houses. <i>Energy and Buildings</i> , 2020 , 207, 109586	7	13
16	An inverse modeling approach for the thermal response modeling of green façades. <i>Applied Energy</i> , 2019 , 235, 1447-1456	10.7	9
15	Methodology for design decision support of cost-optimal zero-energy lightweight construction. <i>Energy and Buildings</i> , 2020 , 223, 110170	7	8
14	Building performance optimization of net zero-energy buildings 2015 , 175-206		7
13	Upgrading the Smartness of Retrofitting Packages towards Energy-Efficient Residential Buildings in Cold Climate Countries: Two Case Studies. <i>Buildings</i> , 2020 , 10, 200	3.2	6
12	Optimizing Hybrid Ventilation Control Strategies Toward Zero-Cooling Energy Building. <i>Frontiers in Built Environment</i> , 2019 , 5,	2.2	6
11	The impact of building automation control systems as retrofitting measures on the energy efficiency of a typical Norwegian single-family house. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 410, 012054	0.3	4
10	Quantification of Energy Flexibility and Survivability of All-Electric Buildings with Cost-Effective Battery Size: Methodology and Indexes. <i>Energies</i> , 2021 , 14, 2787	3.1	3
9	Thermal resilient buildings: How to be quantified? A novel benchmarking framework and labelling metric. <i>Building and Environment</i> , 2021 , 201, 108022	6.5	3
8	Influence of chemical damp proof cream on the capillary action and microstructure of mortars. <i>Energy Procedia</i> , 2017 , 132, 670-675	2.3	2
7	A Generic Pipeline for Machine Learning Users in Energy and Buildings Domain. <i>Energies</i> , 2021 , 14, 5410	3.1	2
6	Simulation-Based Optimization for Energy and Buildings 2015 , 503-513		1
5	Wood burning habits and its effect on the electrical energy demand of a retrofitted Norwegian detached house. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 352, 012022	0.3	1

- 4 Predicting annual illuminance and operative temperature in residential buildings using artificial neural networks. *Building and Environment*, **2022**, 109031 6.5 0
- 3 Net Zero Energy Buildings (NZEBS) Potential in MENA Region: Critical Review on Egypt Case. *Advances in Science, Technology and Innovation*, **2019**, 117-131 0.3
- 2 Challenges in the Modeling and Simulation of Green Buildings **2018**, 3-34
- 1 Challenges in the Modeling and Simulation of Green Buildings **2018**, 1-33