Mohamed Hamdy

List of Publications by Year in Descending Order

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	Predicting annual illuminance and operative temperature in residential buildings using artificial neural networks. *Building and Environment*, **2022**, 109031	6.5	0
38	Quantification of Energy Flexibility and Survivability of All-Electric Buildings with Cost-Effective Battery Size: Methodology and Indexes. *Energies*, **2021**, 14, 2787	3.1	3
37	Resilient cooling of buildings to protect against heat waves and power outages: Key concepts and definition. *Energy and Buildings*, **2021**, 239, 110869	7	16
36	A Generic Pipeline for Machine Learning Users in Energy and Buildings Domain. *Energies*, **2021**, 14, 5410	3.1	2
35	Thermal resilient buildings: How to be quantified? A novel benchmarking framework and labelling metric. *Building and Environment*, **2021**, 201, 108022	6.5	3
34	Multi-objective optimisation of an interactive buildings-vehicles energy sharing network with high energy flexibility using the Pareto archive NSGA-II algorithm. *Energy Conversion and Management*, **2020**, 218, 113017	10.6	25
33	Methodology for design decision support of cost-optimal zero-energy lightweight construction. *Energy and Buildings*, **2020**, 223, 110170	7	8
32	The impact of building automation control systems as retrofitting measures on the energy efficiency of a typical Norwegian single-family house. *IOP Conference Series: Earth and Environmental Science*, **2020**, 410, 012054	0.3	4
31	A robustness-based decision making approach for multi-target high performance buildings under uncertain scenarios. *Applied Energy*, **2020**, 267, 114868	10.7	17
30	Methodology to assess business models of dynamic pricing tariffs in all-electric houses. *Energy and Buildings*, **2020**, 207, 109586	7	13
29	Upgrading the Smartness of Retrofitting Packages towards Energy-Efficient Residential Buildings in Cold Climate Countries: Two Case Studies. *Buildings*, **2020**, 10, 200	3.2	6
28	A performance comparison of multi-objective optimization-based approaches for calibrating white-box building energy models. *Energy and Buildings*, **2020**, 216, 109942	7	34
27	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	
26	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. *Solar Energy Materials and Solar Cells*, **2019**, 200, 109828	6.4	91
25	Wood burning habits and its effect on the electrical energy demand of a retrofitted Norwegian detached house. *IOP Conference Series: Earth and Environmental Science*, **2019**, 352, 012022	0.3	1
24	Optimizing Hybrid Ventilation Control Strategies Toward Zero-Cooling Energy Building. *Frontiers in Built Environment*, **2019**, 5,	2.2	6
23	An inverse modeling approach for the thermal response modeling of green fa□des. *Applied Energy*, **2019**, 235, 1447-1456	10.7	9

22	The Impact of Insulation and HVAC Degradation on Overall Building Energy Performance: A Case Study. *Buildings*, **2018**, 8, 23	3.2	13
21	Challenges in the Modeling and Simulation of Green Buildings **2018**, 3-34		
20	Challenges in the Modeling and Simulation of Green Buildings **2018**, 1-33		
19	Twenty-year tracking of lighting savings and power density in the residential sector. *Energy and Buildings*, **2017**, 154, 113-126	7	13
18	The impact of climate change on the overheating risk in dwellings—A Dutch case study. *Building and Environment*, **2017**, 122, 307-323	6.5	74
17	Impact of building envelope and mechanical component degradation on the whole building performance: a review paper. *Energy Procedia*, **2017**, 132, 321-326	2.3	13
16	Influence of chemical damp proof cream on the capillary action and microstructure of mortars. *Energy Procedia*, **2017**, 132, 670-675	2.3	2
15	Impact of financial assumptions on the cost optimality towards nearly zero energy buildings – A case study. *Energy and Buildings*, **2017**, 153, 421-438	7	36
14	Multi-Objective Optimization of Building Energy Design to Reconcile Collective and Private Perspectives: CO2-eq vs. Discounted Payback Time. *Energies*, **2017**, 10, 1016	3.1	16
13	A multi-aid optimization scheme for large-scale investigation of cost-optimality and energy performance of buildings. *Journal of Building Performance Simulation*, **2016**, 9, 411-430	2.8	20
12	A performance comparison of multi-objective optimization algorithms for solving nearly-zero-energy-building design problems. *Energy and Buildings*, **2016**, 121, 57-71	7	185
11	Social acceptance of renewable energy technologies for buildings in the Helsinki Metropolitan Area of Finland. *Renewable Energy*, **2016**, 99, 813-824	8.1	47
10	A new methodology for investigating the cost-optimality of energy retrofitting a building category. *Energy and Buildings*, **2015**, 107, 456-478	7	130
9	Building performance optimization of net zero-energy buildings **2015**, 175-206		7
8	The performance of small scale multi-generation technologies in achieving cost-optimal and zero-energy office building solutions. *Applied Energy*, **2015**, 152, 94-108	10.7	36
7	Simulation-Based Optimization for Energy and Buildings **2015**, 503-513		1
6	Researching social acceptability of renewable energy technologies in Finland. *International Journal of Sustainable Built Environment*, **2013**, 2, 89-98		68
5	A multi-stage optimization method for cost-optimal and nearly-zero-energy building solutions in line with the EPBD-recast 2010. *Energy and Buildings*, **2013**, 56, 189-203	7	289

4	Assessing gaps and needs for integrating building performance optimization tools in net zero energy buildings design. *Energy and Buildings*, **2013**, 60, 110-124	7	253
3	Applying a multi-objective optimization approach for Design of low-emission cost-effective dwellings. *Building and Environment*, **2011**, 46, 109-123	6.5	161
2	Impact of adaptive thermal comfort criteria on building energy use and cooling equipment size using a multi-objective optimization scheme. *Energy and Buildings*, **2011**, 43, 2055-2067	7	46
1	Optimum design of a house and its HVAC systems using simulation-based optimisation. *International Journal of Low-Carbon Technologies*, **2010**, 5, 120-124	2.8	13