Alessandro Prada

List of Publications by Year
in descending order

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Version: 2024-02-01

31	758	516215 16	525886 27
papers	citations	h-index	g-index

31	31	31	840
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of the Influence of Control Strategy and Heating Loads on the Performance of Hybrid Heat Pump Systems for Residential Buildings. Energies, 2022, 15, 732.	1.6	6
2	Water-to-water heat pump integration in a solar seasonal storage system for space heating and domestic hot water production of a single-family house in a cold climate. Solar Energy, 2021, 213, 300-311.	2.9	26
3	Experimental determination of the building envelopeâ€™s dynamic thermal characteristics in consideration of hygrothermal modelling â€“ Assessment of methods and sources of uncertainty. Energy and Buildings, 2021, 236, 110798.	3.1	8
4	Enhancing PV Self-Consumption through Energy Communities in Heating-Dominated Climates. Energies, 2021, 14, 4165.	1.6	19
5	Timber Based Integrated Techniques to Improve Energy Efficiency and Seismic Behaviour of Existing Masonry Buildings. Sustainability, 2021, 13, 10379.	1.6	9
6	Extreme reference years for building energy performance simulation. Journal of Building Performance Simulation, 2020, 13, 152-166.	1.0	14
7	Dynamic life cycle assessment modelling of a NZEB building. Energy, 2020, 191, 116489.	4.5	58
8	Integrated and dynamic energy modelling of a regional system: A cost-optimized approach in the deep decarbonisation of the Province of Trento (Italy). Energy, 2020, 209, 118378.	4.5	18
9	Rule-Based Control Strategy to Increase Photovoltaic Self-Consumption of a Modulating Heat Pump Using Water Storages and Building Mass Activation. Energies, 2020, 13, 6282.	1.6	22
10	Development of Extreme Reference Years for Building Energy Simulation Scenarios. Applied Mechanics and Materials, 2019, 887, 129-139.	0.2	2
11	Air-source heat pump and photovoltaic systems for residential heating and cooling: Potential of self-consumption in different European climates. Building Simulation, 2019, 12, 453-463.	3.0	31
12	Implementation of a multi-criteria and performance-based procurement procedure for energy retrofitting of facades during early design. Sustainable Cities and Society, 2018, 36, 363-377.	5.1	20
13	Uncertainty propagation of material properties in energy simulation of existing residential buildings: The role of buildings features. Building Simulation, 2018, 11, 449-464.	3.0	16
14	Building Energy Simulation for Nearly Zero Energy Retrofit Design: The Model Calibration. , 2018, , .		1
15	Demand-Side Management of Air-Source Heat Pump and Photovoltaic Systems for Heating Applications in the Italian Context. Environments - MDPI, 2018, 5, 132.	1.5	16
16	On the performance of meta-models in building design optimization. Applied Energy, 2018, 225, 814-826.	5.1	47
17	On the optimal mix between lead-acid battery and thermal storage tank for PV and heat pump systems in high performance buildings. Energy Procedia, 2017, 140, 423-433.	1.8	3
18	Impact of Reference Years on the Outcome of Multi-Objective Optimization for Building Energy Refurbishment. Energies, 2017, 10, 1925.	1.6	15

#	Article	IF	Citations
19	Development of algorithms forÂbuilding retrofit. , 2016, , 349-373.		1
20	On-site monitoring and dynamic simulation of a low energy house heated by a pellet boiler. Energy and Buildings, 2016, 116, 296-306.	3.1	19
21	Characterization of the Dynamic Thermal Properties of the Opaque Elements Through Experimental and Numerical Tests. Energy Procedia, 2015, 78, 3234-3239.	1.8	12
22	Analysis of the energy and economic impact of cost-optimal buildings refurbishment on district heating systems. Science and Technology for the Built Environment, 2015, 21, 876-891.	0.8	10
23	Efficiency and operational behaviour of small-scale pellet boilers installed in residential buildings. Applied Energy, 2015, 155, 854-865.	5.1	32
24	Multi-objective optimization for existing buildings retrofitting under government subsidization. Science and Technology for the Built Environment, 2015, 21, 847-861.	0.8	15
25	Experimental validation of a thermodynamic boiler model under steady state and dynamic conditions. Applied Energy, 2015, 138, 505-516.	5.1	20
26	Multi-objectives optimization of Energy Efficiency Measures in existing buildings. Energy and Buildings, 2015, 95, 57-69.	3.1	161
27	Analysis and improvement of the representativeness of EN ISO 15927-4 reference years for building energy simulation. Journal of Building Performance Simulation, 2014, 7, 391-410.	1.0	24
28	On the effect of material uncertainties in envelope heat transfer simulations. Energy and Buildings, 2014, 71, 53-60.	3.1	40
29	Passive performance of glazed components in heating and cooling of an open-space office under controlled indoor thermal comfort. Building and Environment, 2014, 72, 131-144.	3.0	49
30	Multi-year and reference year weather data for building energy labelling in north Italy climates. Energy and Buildings, 2014, 72, 62-72.	3.1	41
31	A Comparison of Three Evolutionary Algorithms for the Optimization of Building Design. Applied Mechanics and Materials, 0, 887, 140-147.	0.2	3