

# Alessandro Prada

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

758  
citations

516215

16  
h-index

525886

27  
g-index

31  
all docs

31  
docs citations

31  
times ranked

840  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objectives optimization of Energy Efficiency Measures in existing buildings. <i>Energy and Buildings</i> , 2015, 95, 57-69.	3.1	161
2	Dynamic life cycle assessment modelling of a NZEB building. <i>Energy</i> , 2020, 191, 116489.	4.5	58
3	Passive performance of glazed components in heating and cooling of an open-space office under controlled indoor thermal comfort. <i>Building and Environment</i> , 2014, 72, 131-144.	3.0	49
4	On the performance of meta-models in building design optimization. <i>Applied Energy</i> , 2018, 225, 814-826.	5.1	47
5	Multi-year and reference year weather data for building energy labelling in north Italy climates. <i>Energy and Buildings</i> , 2014, 72, 62-72.	3.1	41
6	On the effect of material uncertainties in envelope heat transfer simulations. <i>Energy and Buildings</i> , 2014, 71, 53-60.	3.1	40
7	Efficiency and operational behaviour of small-scale pellet boilers installed in residential buildings. <i>Applied Energy</i> , 2015, 155, 854-865.	5.1	32
8	Air-source heat pump and photovoltaic systems for residential heating and cooling: Potential of self-consumption in different European climates. <i>Building Simulation</i> , 2019, 12, 453-463.	3.0	31
9	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. <i>Solar Energy</i> , 2021, 213, 300-311.	2.9	26
10	Analysis and improvement of the representativeness of EN ISO 15927-4 reference years for building energy simulation. <i>Journal of Building Performance Simulation</i> , 2014, 7, 391-410.	1.0	24
11	Rule-Based Control Strategy to Increase Photovoltaic Self-Consumption of a Modulating Heat Pump Using Water Storages and Building Mass Activation. <i>Energies</i> , 2020, 13, 6282.	1.6	22
12	Experimental validation of a thermodynamic boiler model under steady state and dynamic conditions. <i>Applied Energy</i> , 2015, 138, 505-516.	5.1	20
13	Implementation of a multi-criteria and performance-based procurement procedure for energy retrofitting of facades during early design. <i>Sustainable Cities and Society</i> , 2018, 36, 363-377.	5.1	20
14	On-site monitoring and dynamic simulation of a low energy house heated by a pellet boiler. <i>Energy and Buildings</i> , 2016, 116, 296-306.	3.1	19
15	Enhancing PV Self-Consumption through Energy Communities in Heating-Dominated Climates. <i>Energies</i> , 2021, 14, 4165.	1.6	19
16	Integrated and dynamic energy modelling of a regional system: A cost-optimized approach in the deep decarbonisation of the Province of Trento (Italy). <i>Energy</i> , 2020, 209, 118378.	4.5	18
17	Uncertainty propagation of material properties in energy simulation of existing residential buildings: The role of buildings features. <i>Building Simulation</i> , 2018, 11, 449-464.	3.0	16
18	Demand-Side Management of Air-Source Heat Pump and Photovoltaic Systems for Heating Applications in the Italian Context. <i>Environments - MDPI</i> , 2018, 5, 132.	1.5	16

#	ARTICLE	IF	CITATIONS
19	Multi-objective optimization for existing buildings retrofitting under government subsidization. Science and Technology for the Built Environment, 2015, 21, 847-861.	0.8	15
20	Impact of Reference Years on the Outcome of Multi-Objective Optimization for Building Energy Refurbishment. Energies, 2017, 10, 1925.	1.6	15
21	Extreme reference years for building energy performance simulation. Journal of Building Performance Simulation, 2020, 13, 152-166.	1.0	14
22	Characterization of the Dynamic Thermal Properties of the Opaque Elements Through Experimental and Numerical Tests. Energy Procedia, 2015, 78, 3234-3239.	1.8	12
23	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
24	Timber Based Integrated Techniques to Improve Energy Efficiency and Seismic Behaviour of Existing Masonry Buildings. Sustainability, 2021, 13, 10379.	1.6	9
25	Experimental determination of the building envelope's dynamic thermal characteristics in consideration of hygrothermal modelling " Assessment of methods and sources of uncertainty. Energy and Buildings, 2021, 236, 110798.	3.1	8
26	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
27	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
28	A Comparison of Three Evolutionary Algorithms for the Optimization of Building Design. Applied Mechanics and Materials, 0, 887, 140-147.	0.2	3
29	Development of Extreme Reference Years for Building Energy Simulation Scenarios. Applied Mechanics and Materials, 2019, 887, 129-139.	0.2	2
30	Development of algorithms for building retrofit. , 2016, , 349-373.		1
31	Building Energy Simulation for Nearly Zero Energy Retrofit Design: The Model Calibration. , 2018, ,		1