Massimiliano Manfren

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.

49 papers	1,461 citations	21 h-index	37 g-index
54 ext. papers	1,737 ext. citations	6 avg, IF	5.42 L-index

#	Paper	IF	Citations
49	Paradigm shift in urban energy systems through distributed generation: Methods and models. *Applied Energy*, **2011**, 88, 1032-1048	10.7	285
48	Calibration and uncertainty analysis for computer models – A meta-model based approach for integrated building energy simulation. *Applied Energy*, **2013**, 103, 627-641	10.7	154
47	Energy efficiency, demand side management and energy storage technologies – A critical analysis of possible paths of integration in the built environment. *Renewable and Sustainable Energy Reviews*, **2018**, 95, 341-353	16.2	101
46	Building Automation and Control Systems and performance optimization: A framework for analysis. *Renewable and Sustainable Energy Reviews*, **2017**, 75, 313-330	16.2	82
45	Thermal inertia and energy efficiency – Parametric simulation assessment on a calibrated case study. *Applied Energy*, **2015**, 145, 111-123	10.7	66
44	Performance monitoring and modeling of an uncovered photovoltaic-thermal (PVT) water collector. *Solar Energy*, **2016**, 135, 551-568	6.8	64
43	On the Effects of Variation of Thermal Conductivity in Buildings in the Italian Construction Sector. *Energies*, **2018**, 11, 872	3.1	47
42	Cost optimal analysis of heat pump technology adoption in residential reference buildings. *Renewable Energy*, **2013**, 60, 615-624	8.1	46
41	Probabilistic behavioural modeling in building performance simulation – The Brescia eLUX lab. *Energy and Buildings*, **2016**, 128, 119-131	7	44
40	Probabilistic behavioral modeling in building performance simulation: A Monte Carlo approach. *Energy and Buildings*, **2017**, 148, 128-141	7	41
39	Optimization of building energy performance by means of multi-scale analysis – Lessons learned from case studies. *Sustainable Cities and Society*, **2016**, 27, 296-306	10.1	41
38	Sustainability Assessment through Green BIM for Environmental, Social and Economic Efficiency. *Procedia Engineering*, **2017**, 180, 520-530		37
37	A simplified model for the estimation of energy production of PV systems. *Energy*, **2013**, 59, 503-512	7.9	35
36	Open data and energy analytics - An analysis of essential information for energy system planning, design and operation. *Energy*, **2020**, 213, 118803	7.9	33
35	Linking design and operation performance analysis through model calibration: Parametric assessment on a Passive House building. *Energy*, **2018**, 165, 26-40	7.9	33
34	Energy Savings through Variable Speed Compressor Heat Pump Systems. *Energy Procedia*, **2012**, 14, 1337-1342	2.3	27
33	Energy analytics for supporting built environment decarbonisation. *Energy Procedia*, **2019**, 157, 1486-1493	2.3	26

32	Sustainable church heating: The Basilica di Collemaggio case-study. *Energy and Buildings*, **2016**, 116, 218-231	7	25
31	Tracking Users Behaviors through Real-time Information in BIMs: Workflow for Interconnection in the Brescia Smart Campus Demonstrator. *Procedia Engineering*, **2017**, 180, 1484-1494		23
30	Net Zero Energy Buildings: Expense or Investment?. *Energy Procedia*, **2012**, 14, 1331-1336	2.3	23
29	Local energy efficiency programs: A monitoring methodology for heating systems. *Sustainable Cities and Society*, **2014**, 13, 69-77	10.1	22
28	Multi-commodity network flow models for dynamic energy management Smart Grid applications. *Energy Procedia*, **2012**, 14, 1374-1379	2.3	21
27	Multi-commodity network flow models for dynamic energy management Mathematical formulation. *Energy Procedia*, **2012**, 14, 1380-1385	2.3	20
26	Parametric Performance Analysis and Energy Model Calibration Workflow Integration A Scalable Approach for Buildings. *Energies*, **2020**, 13, 621	3.1	17
25	A Case Study of Solar Technologies Adoption: Criteria for BIPV Integration in Sensitive Built Environment. *Energy Procedia*, **2012**, 30, 1006-1015	2.3	14
24	Optimization concepts in district energy design and management A case study. *Energy Procedia*, **2012**, 14, 1386-1391	2.3	13
23	Energy Modelling and Analytics in the Built Environment A Review of Their Role for Energy Transitions in the Construction Sector. *Energies*, **2021**, 14, 679	3.1	12
22	Techno-economic analysis and energy modelling as a key enablers for smart energy services and technologies in buildings. *Renewable and Sustainable Energy Reviews*, **2021**, 150, 111490	16.2	11
21	On the link between energy performance of building and thermal comfort: An example **2019**,		10
20	Linking Design and Operation Phase Energy Performance Analysis Through Regression-Based Approaches. *Frontiers in Energy Research*, **2020**, 8,	3.8	10
19	Techno-economic assessment of reversible Solid Oxide Cell integration to renewable energy systems at building and district scale. *Energy Conversion and Management*, **2021**, 235, 113993	10.6	9
18	On the acoustics of the Teatro 1763 in Bologna. *Applied Acoustics*, **2021**, 172, 107598	3.1	9
17	Energy Efficiency Assessment Based on Realistic Occupancy Patterns Obtained Through Stochastic Simulation **2015**, 469-478		7
16	Sound Characterization through Intensity of Acoustic Radiation Measurement: A Study of Persian Musical Instruments. *Applied Sciences (Switzerland)*, **2020**, 10, 633	2.6	6
15	Occupancy Profile Variation Analyzed through Generative Modelling to Control Building Energy Behavior. *Procedia Engineering*, **2017**, 180, 1495-1505		6

14	The sound diffusion in Italian Opera Houses: Some examples. *Building Acoustics*, **2020**, 27, 333-355	1	5
13	The Carabattola Vibroacoustical Analysis and Intensity of Acoustic Radiation (IAR). *Applied Sciences (Switzerland)*, **2020**, 10, 641	2.6	5
12	From in-situ measurement to regression and time series models: An overview of trends and prospects for building performance modelling **2019**,		4
11	Multi-scale Analysis and Optimization of Building Energy Performance Lessons Learned from Case Studies. *Procedia Engineering*, **2015**, 118, 563-572		4
10	Parametric energy performance analysis and monitoring of buildings HEART project platform case study. *Sustainable Cities and Society*, **2020**, 61, 102296	10.1	4
9	Validation and application of three-dimensional auralisation during concert hall renovation. *Building Acoustics*, **2020**, 27, 311-331	1	3
8	Long-Term Techno-Economic Performance Monitoring to Promote Built Environment Decarbonisation and Digital Transformation A Case Study. *Sustainability*, **2022**, 14, 644	3.6	3
7	Social housing retrofit towards energy efficiency thresholds extensible on public housing in Italy **2013**,		2
6	Envisioning Building-as-Energy-Service in the European context. From a literature review to a conceptual framework. *Architectural Engineering and Design Management*,1-26	1.2	2
5	Multi-Scale Computing for a Sustainable Built Environment **2017**, 53-97		1
4	On the hygrothermal behavior of coconuts fiber insulators on green roofs **2020**,		1
3	Building performance monitoring: from in-situ measurement to regression-based approaches. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 072043	0.4	1
2	Open Data and Models for Energy and Environment. *Energies*, **2021**, 14, 4413	3.1	1
1	Static and dynamic thermal properties of construction components: A comparison in idealized and experimental conditions using lumped parameter models. *IOP Conference Series: Materials Science and Engineering*,609, 072042	0.4	