

# Paolo Maria Congedo

## List of Publications by Year in Descending Order

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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.

80  
papers

2,112  
citations

26  
h-index

44  
g-index

81  
ext. papers

2,507  
ext. citations

4.6  
avg, IF

5.76  
L-index

#	Paper	IF	Citations
80	Definition of a Protocol for the Experimental Monitoring of Rising Damp in Three Different Masonry Models with Tuff, Carparo, and Lecce Stone. <i>Energies</i> , <b>2022</b> , 15, 892	3.1	1
79	Long-term predictive energy analysis of a high-performance building in a mediterranean climate under climate change. <i>Energy</i> , <b>2022</b> , 238, 121641	7.9	6
78	Solar greenhouses: Climates, glass selection, and plant well-being. <i>Solar Energy</i> , <b>2021</b> , 230, 222-241	6.8	6
77	A literature review and statistical analysis of photovoltaic-wind hybrid renewable system research by considering the most relevant 550 articles: An upgradable matrix literature database. <i>Journal of Cleaner Production</i> , <b>2021</b> , 295, 126070	10.3	45
76	Technical-Economic Evaluation of the Effectiveness of Measures Applied to the Artificial Lighting System of a School. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6664	2.6	2
75	Implementation hypothesis of the Apulia ITACA Protocol at district level (part I: The model. <i>Sustainable Cities and Society</i> , <b>2021</b> , 70, 102931	10.1	10
74	Analysis of Thermodynamic Cycles of Heat Pumps and Magnetic Refrigerators Using Mathematical Models. <i>Energies</i> , <b>2021</b> , 14, 909	3.1	1
73	A New Device Hypothesis for Water Extraction from Air and Basic Air Condition System in Developing Countries. <i>Energies</i> , <b>2021</b> , 14, 4507	3.1	1
72	Implementation hypothesis of the Apulia ITACA Protocol at district level (part II: The case study. <i>Sustainable Cities and Society</i> , <b>2021</b> , 70, 102927	10.1	5
71	Rising damp in building stones: Numerical and experimental comparison in lecce stone and carparo under controlled microclimatic conditions. <i>Construction and Building Materials</i> , <b>2021</b> , 296, 123713	6.7	4
70	Worldwide dynamic predictive analysis of building performance under long-term climate change conditions. <i>Journal of Building Engineering</i> , <b>2021</b> , 42, 103057	5.2	16
69	Hypothesis of thermal and mechanical energy storage with unconventional methods. <i>Energy Conversion and Management</i> , <b>2020</b> , 218, 113014	10.6	8
68	Application of an unconventional thermal and mechanical energy storage coupled with the air conditioning and domestic hot water systems of a residential building. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110234	7	5
67	Complete greenhouse dynamic simulation tool to assess the crop thermal well-being and energy needs. <i>Applied Thermal Engineering</i> , <b>2020</b> , 179, 115698	5.8	20
66	Numerical and experimental analysis of the energy performance of an air-source heat pump (ASHP) coupled with a horizontal earth-to-air heat exchanger (EAHX) in different climates. <i>Geothermics</i> , <b>2020</b> , 87, 101845	4.3	31
65	Walls comparative evaluation for the thermal performance improvement of low-rise residential buildings in warm Mediterranean climate. <i>Journal of Building Engineering</i> , <b>2020</b> , 28, 101059	5.2	24
64	Energy and economic dataset of the worldwide optimal photovoltaic-wind hybrid renewable energy systems. <i>Data in Brief</i> , <b>2020</b> , 33, 106476	1.2	2

63	Worldwide geographical mapping and optimization of stand-alone and grid-connected hybrid renewable system techno-economic performance across Köppen-Geiger climates. <i>Applied Energy</i> , <b>2020</b> , 276, 115507	10.7	44
62	Dynamic Analysis of the Natural and Mechanical Ventilation of a Solar Greenhouse by Coupling Controlled Mechanical Ventilation (CMV) with an Earth-to-Air Heat Exchanger (EAHX). <i>Energies</i> , <b>2020</b> , 13, 3676	3.1	8
61	Data from a dynamic simulation in a free-floating and continuous regime of a solar greenhouse modelled in TRNSYS 17 considering simultaneously different thermal phenomena. <i>Data in Brief</i> , <b>2020</b> , 33, 106339	1.2	3
60	A novel energy-economic-environmental multi-criteria decision-making in the optimization of a hybrid renewable system. <i>Sustainable Cities and Society</i> , <b>2020</b> , 52, 101780	10.1	51
59	Experimental validation of horizontal air-ground heat exchangers (HAGHE) for ventilation systems. <i>Geothermics</i> , <b>2019</b> , 80, 78-85	4.3	27
58	Optimization of high efficiency slab-on-ground floor by multi-objective analysis for zero energy buildings in mediterranean climate. <i>Journal of Building Engineering</i> , <b>2019</b> , 24, 100733	5.2	15
57	Modeling of Light Pipes for the Optimal Disposition in Buildings. <i>Energies</i> , <b>2019</b> , 12, 4323	3.1	3
56	Numerical method for wind energy analysis in WTG siting. <i>Renewable Energy</i> , <b>2019</b> , 136, 202-210	8.1	3
55	Operative air temperature data for different measures applied on a building envelope in warm climate. <i>Data in Brief</i> , <b>2018</b> , 17, 1184-1187	1.2	
54	Energy reliability-constrained method for the multi-objective optimization of a photovoltaic-wind hybrid system with battery storage. <i>Energy</i> , <b>2018</b> , 156, 688-708	7.9	50
53	Multi-Objective Analysis for the Optimization of a High Performance Slab-on- Ground Floor in a Warm Climate. <i>Energies</i> , <b>2018</b> , 11, 2988	3.1	1
52	Design of a Ventilation System Coupled with a Horizontal Air-Ground Heat Exchanger (HAGHE) for a Residential Building in a Warm Climate. <i>Energies</i> , <b>2018</b> , 11, 2122	3.1	31
51	Performance Analysis of Air Cooled Heat Pump Coupled with Horizontal Air Ground Heat Exchanger in the Mediterranean Climate. <i>Energies</i> , <b>2018</b> , 11, 2704	3.1	17
50	Technical data of a grid-connected photovoltaic/wind hybrid system with and without storage battery for residential buildings located in a warm area. <i>Data in Brief</i> , <b>2018</b> , 20, 587-590	1.2	4
49	Numerical dataset of slab-on-ground floor for buildings in warm climate from a multi-criteria analysis. <i>Data in Brief</i> , <b>2018</b> , 20, 269-276	1.2	5
48	Long term performance, losses and efficiency analysis of a 960 kW P photovoltaic system in the Mediterranean climate. <i>Energy Conversion and Management</i> , <b>2017</b> , 145, 169-181	10.6	80
47	Sizing analysis of interior lighting using tubular daylighting devices. <i>Energy Procedia</i> , <b>2017</b> , 126, 179-186	2.3	2
46	An innovative solution to increase the performances of an Air-Cooled Heat Pump by Horizontal Air-Ground Heat-Exchangers. <i>Energy Procedia</i> , <b>2017</b> , 126, 187-194	2.3	5

45	Study of degradation of a grid connected photovoltaic system. <i>Energy Procedia</i> , <b>2017</b> , 126, 644-650	2.3	9
44	Forecasting of PV Power Generation using weather input data-preprocessing techniques. <i>Energy Procedia</i> , <b>2017</b> , 126, 651-658	2.3	43
43	Cost optimal analysis of lighting retrofit scenarios in educational buildings in Italy. <i>Energy Procedia</i> , <b>2017</b> , 126, 171-178	2.3	27
42	Analysis of energy consumption: a case study of an Italian winery. <i>Energy Procedia</i> , <b>2017</b> , 126, 227-233	2.3	13
41	Thermal and mechanical performance of rigid polyurethane foam added with commercial nanoparticles. <i>Nanomaterials and Nanotechnology</i> , <b>2017</b> , 7, 184798041668411	2.9	17
40	Energy retrofit and environmental sustainability improvement of a historical farmhouse in Southern Italy. <i>Energy Procedia</i> , <b>2017</b> , 133, 367-381	2.3	6
39	Air cooled heat pump coupled with Horizontal Air-Ground Heat Exchanger (HAGHE) for Zero Energy Buildings in the Mediterranean climate. <i>Energy Procedia</i> , <b>2017</b> , 140, 2-12	2.3	7
38	Economic and Thermal Evaluation of Different Uses of an Existing Structure in a Warm Climate. <i>Energies</i> , <b>2017</b> , 10, 658	3.1	19
37	Envelope Design Optimization by Thermal Modelling of a Building in a Warm Climate. <i>Energies</i> , <b>2017</b> , 10, 1808	3.1	30
36	High performance precast external walls for cold climate by a multi-criteria methodology. <i>Energy</i> , <b>2016</b> , 115, 561-576	7.9	26
35	Data of cost-optimal solutions and retrofit design methods for school renovation in a warm climate. <i>Data in Brief</i> , <b>2016</b> , 9, 846-849	1.2	3
34	CFD modeling to evaluate the thermal performances of window frames in accordance with the ISO 10077. <i>Energy</i> , <b>2016</b> , 111, 430-438	7.9	22
33	Horizontal Air-Ground Heat Exchanger Performance and Humidity Simulation by Computational Fluid Dynamic Analysis. <i>Energies</i> , <b>2016</b> , 9, 930	3.1	18
32	Efficient Solutions and Cost-Optimal Analysis for Existing School Buildings. <i>Energies</i> , <b>2016</b> , 9, 851	3.1	35
31	Data on photovoltaic power forecasting models for Mediterranean climate. <i>Data in Brief</i> , <b>2016</b> , 7, 1639-422	4.2	17
30	Comparison of strategies for multi-step ahead photovoltaic power forecasting models based on hybrid group method of data handling networks and least square support vector machine. <i>Energy</i> , <b>2016</b> , 107, 360-373	7.9	77
29	Data resulting from the CFD analysis of ten window frames according to the UNI EN ISO 10077-2. <i>Data in Brief</i> , <b>2016</b> , 8, 963-5	1.2	1
28	Photovoltaic forecast based on hybrid PCA+SSVM using dimensionality reduced data. <i>Neurocomputing</i> , <b>2016</b> , 211, 72-83	5.4	40

27	Data on external walls from a multi-objective simulation for cold climates. <i>Data in Brief</i> , <b>2016</b> , 9, 613-615.	1.2	1
26	Improvements in the predictions for the photovoltaic system performance of the Mediterranean regions. <i>Energy Conversion and Management</i> , <b>2016</b> , 128, 191-202	10.6	21
25	Data on Support Vector Machines (SVM) model to forecast photovoltaic power. <i>Data in Brief</i> , <b>2016</b> , 9, 13-6	1.2	25
24	Cost-optimal analysis and technical comparison between standard and high efficient mono-residential buildings in a warm climate. <i>Energy</i> , <b>2015</b> , 83, 560-575	7.9	45
23	Cost-optimal design for nearly zero energy office buildings located in warm climates. <i>Energy</i> , <b>2015</b> , 91, 967-982	7.9	90
22	Design method of high performance precast external walls for warm climate by multi-objective optimization analysis. <i>Energy</i> , <b>2015</b> , 90, 1645-1661	7.9	25
21	Data of cost-optimality and technical solutions for high energy performance buildings in warm climate. <i>Data in Brief</i> , <b>2015</b> , 4, 222-5	1.2	23
20	Data of high performance precast external walls for warm climate. <i>Data in Brief</i> , <b>2015</b> , 4, 447-9	1.2	7
19	High performance solutions and data for nZEBs offices located in warm climates. <i>Data in Brief</i> , <b>2015</b> , 5, 502-5	1.2	18
18	Characterization of Polyurethane Foam Added with Synthesized Acetic and Oleic-Modified TiO <sub>2</sub> Nanocrystals. <i>Nanomaterials and Nanotechnology</i> , <b>2015</b> , 5, 26	2.9	9
17	Interaction between Human Serum Albumin and Different Anatase TiO <sub>2</sub> Nanoparticles: A Nano-bio Interface Study. <i>Nanomaterials and Nanotechnology</i> , <b>2015</b> , 5, 30	2.9	15
16	Properties of Aluminosilicate Refractories with Synthesized Boron-Modified TiO <sub>2</sub> Nanocrystals. <i>Nanomaterials and Nanotechnology</i> , <b>2015</b> , 5, 8	2.9	8
15	Properties of Nanocrystals-Formulated Aluminosilicate Bricks. <i>Nanomaterials and Nanotechnology</i> , <b>2015</b> , 5, 28	2.9	3
14	Error analysis of hybrid photovoltaic power forecasting models: A case study of mediterranean climate. <i>Energy Conversion and Management</i> , <b>2015</b> , 100, 117-130	10.6	72
13	Assessment of cost-optimality and technical solutions in high performance multi-residential buildings in the Mediterranean area. <i>Energy and Buildings</i> , <b>2015</b> , 102, 250-265	7	65
12	Multi-objective optimization analysis for high efficiency external walls of zero energy buildings (ZEB) in the Mediterranean climate. <i>Energy and Buildings</i> , <b>2014</b> , 84, 483-492	7	58
11	Multi-criteria optimization analysis of external walls according to ITACA protocol for zero energy buildings in the mediterranean climate. <i>Building and Environment</i> , <b>2014</b> , 82, 467-480	6.5	42
10	Computational fluid dynamics (CFD) modeling of microclimate for salts crystallization control and artworks conservation. <i>Journal of Cultural Heritage</i> , <b>2014</b> , 15, 448-457	2.9	32

9	CFD modeling and moisture dynamics implications of ventilation scenarios in historical buildings. <i>Building and Environment</i> , <b>2014</b> , 79, 181-193	6.5	55
8	Comparison Between Wind Power Prediction Models Based on Wavelet Decomposition with Least-Squares Support Vector Machine (LS-SVM) and Artificial Neural Network (ANN). <i>Energies</i> , <b>2014</b> , 7, 5251-5272	3.1	95
7	Photovoltaic power forecasting using statistical methods: impact of weather data. <i>IET Science, Measurement and Technology</i> , <b>2014</b> , 8, 90-97	1.5	117
6	Computational Fluid Dynamic Modeling of Horizontal Air-Ground Heat Exchangers (HAGHE) for HVAC Systems. <i>Energies</i> , <b>2014</b> , 7, 8465-8482	3.1	16
5	Performance measurements of monocrystalline silicon PV modules in South-eastern Italy. <i>Energy Conversion and Management</i> , <b>2013</b> , 68, 1-10	10.6	95
4	Ventilation Control using Computational Fluid-dynamics (CFD) Modelling for Cultural Buildings Conservation. <i>Procedia Chemistry</i> , <b>2013</b> , 8, 83-91		16
3	CFD simulations of horizontal ground heat exchangers: A comparison among different configurations. <i>Applied Thermal Engineering</i> , <b>2012</b> , 33-34, 24-32	5.8	201
2	Modeling and Analysis of Natural Convection Heat Transfer in Nanofluids <b>2008</b> ,		6
1	Fluid-Dynamic Analysis and Optimization of the Quenching Process for Hardening of Change-Speed Gears Using DOE/NOVA Method. <i>Journal of Heat Transfer</i> , <b>2004</b> , 126, 365-375	1.8	4