

# Gianpiero Evola

## 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.

50  
papers

1,491  
citations

21  
h-index

38  
g-index

57  
ext. papers

1,741  
ext. citations

4.3  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
50	Preliminary investigation on the transient hygrothermal analysis of a CLT-based retrofit solution for exterior walls. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2042, 012142	0.3	
49	Hygrothermal and Acoustic Performance of Two Innovative Envelope Renovation Solutions Developed in the e-SAFE Project. <i>Energies</i> , <b>2021</b> , 14, 4006	3.1	0
48	Greenery Systems for the Mitigation of the Urban Heat Island: A Simulation Experience for Southern Italy. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 427-438	0.3	1
47	Typical-year and multi-year building energy simulation approaches: A critical comparison. <i>Energy</i> , <b>2021</b> , 219, 119591	7.9	6
46	Energy, Seismic, and Architectural Renovation of RC Framed Buildings with Prefabricated Timber Panels. <i>Sustainability</i> , <b>2020</b> , 12, 4845	3.6	22
45	A novel comprehensive workflow for modelling outdoor thermal comfort and energy demand in urban canyons: Results and critical issues. <i>Energy and Buildings</i> , <b>2020</b> , 216, 109946	7	26
44	Mitigation of environmental noise in urban streets through lightweight transparent screens. <i>Noise Mapping</i> , <b>2020</b> , 7, 57-73	4.8	1
43	Energy Savings and Summer Thermal Comfort for Retrofitted Buildings: A Complex Balance. <i>Smart Innovation, Systems and Technologies</i> , <b>2020</b> , 281-293	0.5	
42	Dynamic thermal and hygrometric simulation of historical buildings: Critical factors and possible solutions. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 118, 109509	16.2	59
41	Updated Typical Weather Years for the Energy Simulation of Buildings in Mediterranean Climate. A Case Study for Sicily. <i>Energies</i> , <b>2020</b> , 13, 4115	3.1	7
40	Decision Support System for the Sustainable Seismic and Energy Renovation of Buildings: Methodological Layout. <i>Sustainability</i> , <b>2020</b> , 12, 10273	3.6	1
39	Seismic and Energy Retrofit of Apartment Buildings through Autoclaved Aerated Concrete (AAC) Blocks Infill Walls. <i>Sustainability</i> , <b>2019</b> , 11, 3939	3.6	16
38	Laboratory and In-Situ Measurements for Thermal and Acoustic Performance of Straw Bales. <i>Sustainability</i> , <b>2019</b> , 11, 5592	3.6	11
37	The effectiveness of phase change materials in relation to summer thermal comfort in air-conditioned office buildings. <i>Building Simulation</i> , <b>2018</b> , 11, 1145-1161	3.9	26
36	Weather data morphing to improve building energy modeling in an urban context. <i>Mathematical Modelling of Engineering Problems</i> , <b>2018</b> , 5, 211-216	3.5	5
35	Exergy Analysis of Energy Systems in Buildings. <i>Buildings</i> , <b>2018</b> , 8, 180	3.2	13
34	Application of Climate Based Daylight Modelling to the Refurbishment of a School Building in Sicily. <i>Sustainability</i> , <b>2018</b> , 10, 2653	3.6	21

33	Controlled mechanical ventilation systems in residential buildings: Primary energy balances and financial issues. <i>Journal of Building Engineering</i> , <b>2017</b> , 11, 96-107	5.2	10
32	A Review of Daylighting Strategies in Schools: State of the Art and Expected Future Trends. <i>Buildings</i> , <b>2017</b> , 7, 41	3.2	19
31	Refurbishing an Existing Apartment Block in Mediterranean Climate: Towards the Passivhaus Standard. <i>Energy Procedia</i> , <b>2017</b> , 111, 397-406	2.3	14
30	Thermal inertia of heavyweight traditional buildings: experimental measurements and simulated scenarios. <i>Energy Procedia</i> , <b>2017</b> , 133, 42-52	2.3	18
29	The role of shading devices to improve thermal and visual comfort in existing glazed buildings. <i>Energy Procedia</i> , <b>2017</b> , 134, 346-355	2.3	18
28	UHI effects and strategies to improve outdoor thermal comfort in dense and old neighbourhoods. <i>Energy Procedia</i> , <b>2017</b> , 134, 692-701	2.3	33
27	Thermal and Economic Analysis of Renovation Strategies for a Historic Building in Mediterranean Area. <i>Buildings</i> , <b>2017</b> , 7, 60	3.2	14
26	Synergic effects of thermal mass and natural ventilation on the thermal behaviour of traditional massive buildings. <i>International Journal of Sustainable Energy</i> , <b>2016</b> , 35, 411-428	2.7	29
25	Energy savings in buildings or UHI mitigation? Comparison between green roofs and cool roofs. <i>Energy and Buildings</i> , <b>2016</b> , 114, 247-255	7	92
24	Application of a Mapping tool to Plan Energy Saving at a Neighborhood Scale. <i>Energy Procedia</i> , <b>2016</b> , 101, 137-144	2.3	14
23	Thermal and visual performance of real and theoretical thermochromic glazing solutions for office buildings. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 149, 110-120	6.4	30
22	Renovation of apartment blocks with BIPV: Energy and economic evaluation in temperate climate. <i>Energy and Buildings</i> , <b>2016</b> , 130, 794-810	7	34
21	A multi-criteria methodology for comparing the energy and environmental behavior of cool, green and traditional roofs. <i>Building and Environment</i> , <b>2015</b> , 90, 71-81	6.5	87
20	The Solar Response Factor to calculate the cooling load induced by solar gains. <i>Applied Energy</i> , <b>2015</b> , 160, 431-441	10.7	7
19	Using the dynamic thermal properties to assess the internal temperature swings in free running buildings. A general model and its validation according to ISO 13792. <i>Energy and Buildings</i> , <b>2015</b> , 87, 57-65	7	10
18	Different Strategies for Improving Summer Thermal Comfort in Heavyweight Traditional Buildings. <i>Energy Procedia</i> , <b>2015</b> , 78, 3228-3233	2.3	17
17	SIMULATION OF A LOW CAPACITY ABSORPTION COOLING SYSTEM FOR INDOOR AIR-CONDITIONING. <i>International Journal of Heat and Technology</i> , <b>2015</b> , 33, 203-210	2.2	3
16	Simulation of a ventilated cavity to enhance the effectiveness of PCM wallboards for summer thermal comfort in buildings. <i>Energy and Buildings</i> , <b>2014</b> , 70, 480-489	7	60

15	Cost-effective design solutions for low-rise residential Net ZEBs in Mediterranean climate. <i>Energy and Buildings</i> , <b>2014</b> , 68, 7-18	7	31
14	Exergy and thermoeconomic optimization of a water-cooled glazed hybrid photovoltaic/thermal (PVT) collector. <i>Solar Energy</i> , <b>2014</b> , 107, 12-25	6.8	79
13	Proper evaluation of the external convective heat transfer for the thermal analysis of cool roofs. <i>Energy and Buildings</i> , <b>2014</b> , 77, 467-477	7	24
12	Acoustic Quality of a Tensile Membrane Structure Used as a Lecture Hall, and Proposals for its Improvement. <i>Building Acoustics</i> , <b>2014</b> , 21, 287-304	1	5
11	The Effectiveness of PCM Wallboards for the Energy Refurbishment of Lightweight Buildings. <i>Energy Procedia</i> , <b>2014</b> , 62, 13-21	2.3	26
10	A dynamic parameter to describe the thermal response of buildings to radiant heat gains. <i>Energy and Buildings</i> , <b>2013</b> , 65, 448-457	7	20
9	Proposal and validation of a model for the dynamic simulation of a solar-assisted single-stage LiBr/water absorption chiller. <i>International Journal of Refrigeration</i> , <b>2013</b> , 36, 1015-1028	3.8	60
8	A methodology for investigating the effectiveness of PCM wallboards for summer thermal comfort in buildings. <i>Building and Environment</i> , <b>2013</b> , 59, 517-527	6.5	158
7	Cool roofs for passive cooling: performance in different climates and for different insulation levels in Italy. <i>Advances in Building Energy Research</i> , <b>2013</b> , 7, 155-169	1.8	28
6	Study on the Application of Cool Paintings for the Passive Cooling of Existing Buildings in Mediterranean Climates. <i>Advances in Mechanical Engineering</i> , <b>2013</b> , 5, 413675	1.2	16
5	A statistical approach for the evaluation of thermal and visual comfort in free-running buildings. <i>Energy and Buildings</i> , <b>2012</b> , 47, 402-410	7	47
4	Performance comparison of six solar-powered air-conditioners operated in five places. <i>Energy</i> , <b>2012</b> , 46, 471-483	7.9	15
3	Energy and cost evaluation of thermal bridge correction in Mediterranean climate. <i>Energy and Buildings</i> , <b>2011</b> , 43, 2385-2393	7	54
2	Description and Validation of a Dynamic Tool for the Modelling of a Solar Assisted Absorption Cooling Machine <b>2010</b> ,		2
1	Computational analysis of wind driven natural ventilation in buildings. <i>Energy and Buildings</i> , <b>2006</b> , 38, 491-501	7	198