Gianpiero Evola

List of Publications by Citations

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	Computational analysis of wind driven natural ventilation in buildings. *Energy and Buildings*, **2006**, 38, 491-501	7	198
49	A methodology for investigating the effectiveness of PCM wallboards for summer thermal comfort in buildings. *Building and Environment*, **2013**, 59, 517-527	6.5	158
48	Energy savings in buildings or UHI mitigation? Comparison between green roofs and cool roofs. *Energy and Buildings*, **2016**, 114, 247-255	7	92
47	A multi-criteria methodology for comparing the energy and environmental behavior of cool, green and traditional roofs. *Building and Environment*, **2015**, 90, 71-81	6.5	87
46	Exergy and thermoeconomic optimization of a water-cooled glazed hybrid photovoltaic/thermal (PVT) collector. *Solar Energy*, **2014**, 107, 12-25	6.8	79
45	Simulation of a ventilated cavity to enhance the effectiveness of PCM wallboards for summer thermal comfort in buildings. *Energy and Buildings*, **2014**, 70, 480-489	7	60
44	Proposal and validation of a model for the dynamic simulation of a solar-assisted single-stage LiBr/water absorption chiller. *International Journal of Refrigeration*, **2013**, 36, 1015-1028	3.8	60
43	Dynamic thermal and hygrometric simulation of historical buildings: Critical factors and possible solutions. *Renewable and Sustainable Energy Reviews*, **2020**, 118, 109509	16.2	59
42	Energy and cost evaluation of thermal bridge correction in Mediterranean climate. *Energy and Buildings*, **2011**, 43, 2385-2393	7	54
41	A statistical approach for the evaluation of thermal and visual comfort in free-running buildings. *Energy and Buildings*, **2012**, 47, 402-410	7	47
40	Renovation of apartment blocks with BIPV: Energy and economic evaluation in temperate climate. *Energy and Buildings*, **2016**, 130, 794-810	7	34
39	UHI effects and strategies to improve outdoor thermal comfort in dense and old neighbourhoods. *Energy Procedia*, **2017**, 134, 692-701	2.3	33
38	Cost-effective design solutions for low-rise residential Net ZEBs in Mediterranean climate. *Energy and Buildings*, **2014**, 68, 7-18	7	31
37	Thermal and visual performance of real and theoretical thermochromic glazing solutions for office buildings. *Solar Energy Materials and Solar Cells*, **2016**, 149, 110-120	6.4	30
36	Synergic effects of thermal mass and natural ventilation on the thermal behaviour of traditional massive buildings. *International Journal of Sustainable Energy*, **2016**, 35, 411-428	2.7	29
35	Cool roofs for passive cooling: performance in different climates and for different insulation levels in Italy. *Advances in Building Energy Research*, **2013**, 7, 155-169	1.8	28
34	A novel comprehensive workflow for modelling outdoor thermal comfort and energy demand in urban canyons: Results and critical issues. *Energy and Buildings*, **2020**, 216, 109946	7	26

33	The effectiveness of phase change materials in relation to summer thermal comfort in air-conditioned office buildings. *Building Simulation*, **2018**, 11, 1145-1161	3.9	26
32	The Effectiveness of PCM Wallboards for the Energy Refurbishment of Lightweight Buildings. *Energy Procedia*, **2014**, 62, 13-21	2.3	26
31	Proper evaluation of the external convective heat transfer for the thermal analysis of cool roofs. *Energy and Buildings*, **2014**, 77, 467-477	7	24
30	Energy, Seismic, and Architectural Renovation of RC Framed Buildings with Prefabricated Timber Panels. *Sustainability*, **2020**, 12, 4845	3.6	22
29	Application of Climate Based Daylight Modelling to the Refurbishment of a School Building in Sicily. *Sustainability*, **2018**, 10, 2653	3.6	21
28	A dynamic parameter to describe the thermal response of buildings to radiant heat gains. *Energy and Buildings*, **2013**, 65, 448-457	7	20
27	A Review of Daylighting Strategies in Schools: State of the Art and Expected Future Trends. *Buildings*, **2017**, 7, 41	3.2	19
26	Thermal inertia of heavyweight traditional buildings: experimental measurements and simulated scenarios. *Energy Procedia*, **2017**, 133, 42-52	2.3	18
25	The role of shading devices to improve thermal and visual comfort in existing glazed buildings. *Energy Procedia*, **2017**, 134, 346-355	2.3	18
24	Different Strategies for Improving Summer Thermal Comfort in Heavyweight Traditional Buildings. *Energy Procedia*, **2015**, 78, 3228-3233	2.3	17
23	Seismic and Energy Retrofit of Apartment Buildings through Autoclaved Aerated Concrete (AAC) Blocks Infill Walls. *Sustainability*, **2019**, 11, 3939	3.6	16
22	Study on the Application of Cool Paintings for the Passive Cooling of Existing Buildings in Mediterranean Climates. *Advances in Mechanical Engineering*, **2013**, 5, 413675	1.2	16
21	Performance comparison of six solar-powered air-conditioners operated in five places. *Energy*, **2012** , 46, 471-483	7.9	15
20	Refurbishing an Existing Apartment Block in Mediterranean Climate: Towards the Passivhaus Standard. *Energy Procedia*, **2017**, 111, 397-406	2.3	14
19	Thermal and Economic Analysis of Renovation Strategies for a Historic Building in Mediterranean Area. *Buildings*, **2017**, 7, 60	3.2	14
18	Application of a Mapping tool to Plan Energy Saving at a Neighborhood Scale. *Energy Procedia*, **2016**, 101, 137-144	2.3	14
17	Exergy Analysis of Energy Systems in Buildings. *Buildings*, **2018**, 8, 180	3.2	13
16	Laboratory and In-Situ Measurements for Thermal and Acoustic Performance of Straw Bales. *Sustainability*, **2019**, 11, 5592	3.6	11

15	Controlled mechanical ventilation systems in residential buildings: Primary energy balances and financial issues. *Journal of Building Engineering*, **2017**, 11, 96-107	5.2	10
14	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. *Energy and Buildings*, **2015**, 87, 57-65	7	10
13	The Solar Response Factor to calculate the cooling load induced by solar gains. *Applied Energy*, **2015**, 160, 431-441	10.7	7
12	Updated Typical Weather Years for the Energy Simulation of Buildings in Mediterranean Climate. A Case Study for Sicily. *Energies*, **2020**, 13, 4115	3.1	7
11	Typical-year and multi-year building energy simulation approaches: A critical comparison. *Energy*, **2021**, 219, 119591	7.9	6
10	Acoustic Quality of a Tensile Membrane Structure Used as a Lecture Hall, and Proposals for its Improvement. *Building Acoustics*, **2014**, 21, 287-304	1	5
9	Weather data morphing to improve building energy modeling in an urban context. *Mathematical Modelling of Engineering Problems*, **2018**, 5, 211-216	3.5	5
8	SIMULATION OF A LOW CAPACITY ABSORPTION COOLING SYSTEM FOR INDOOR AIR-CONDITIONING. *International Journal of Heat and Technology*, **2015**, 33, 203-210	2.2	3
7	Description and Validation of a Dynamic Tool for the Modelling of a Solar Assisted Absorption Cooling Machine **2010**,		2
6	Mitigation of environmental noise in urban streets through lightweight transparent screens. *Noise Mapping*, **2020**, 7, 57-73	4.8	1
5	Decision Support System for the Sustainable Seismic and Energy Renovation of Buildings: Methodological Layout. *Sustainability*, **2020**, 12, 10273	3.6	1
4	Greenery Systems for the Mitigation of the Urban Heat Island: A Simulation Experience for Southern Italy. *Lecture Notes in Civil Engineering*, **2021**, 427-438	0.3	1
3	Hygrothermal and Acoustic Performance of Two Innovative Envelope Renovation Solutions Developed in the e-SAFE Project. *Energies*, **2021**, 14, 4006	3.1	0
2	Preliminary investigation on the transient hygrothermal analysis of a CLT-based retrofit solution for exterior walls. *Journal of Physics: Conference Series*, **2021**, 2042, 012142	0.3	
1	Energy Savings and Summer Thermal Comfort for Retrofitted Buildings: A Complex Balance. *Smart Innovation, Systems and Technologies*, **2020**, 281-293	0.5	