

Francesco Fiorito

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.

60
papers

1,335
citations

19
h-index

36
g-index

67
ext. papers

1,675
ext. citations

5.5
avg, IF

5.29
L-index

#	Paper	IF	Citations
60	Passive and active cooling for the outdoor built environment [Analysis and assessment of the cooling potential of mitigation technologies using performance data from 220 large scale projects. <i>Solar Energy</i> , 2017 , 154, 14-33	6.8	167
59	Forthcoming perspectives of photoelectrochromic devices: a critical review. <i>Energy and Environmental Science</i> , 2016 , 9, 2682-2719	35.4	103
58	On the energy impact of urban heat island in Sydney: Climate and energy potential of mitigation technologies. <i>Energy and Buildings</i> , 2018 , 166, 154-164	7	86
57	Shape morphing solar shadings: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 55, 863-884	16.2	71
56	Multifunctional bioinspired sol-gel coatings for architectural glasses. <i>Building and Environment</i> , 2010 , 45, 1233-1243	6.5	66
55	Smart Electrochromic Windows to Enhance Building Energy Efficiency and Visual Comfort. <i>Energies</i> , 2020 , 13, 1449	3.1	65
54	Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements. <i>Sustainability</i> , 2017 , 9, 712	3.6	61
53	Daylight Design of Office Buildings: Optimisation of External Solar Shadings by Using Combined Simulation Methods. <i>Buildings</i> , 2015 , 5, 560-580	3.2	61
52	Building integration of semitransparent perovskite-based solar cells: Energy performance and visual comfort assessment. <i>Applied Energy</i> , 2017 , 194, 94-107	10.7	59
51	Optimal control and performance of photovoltachromic switchable glazing for building integration in temperate climates. <i>Applied Energy</i> , 2016 , 178, 943-961	10.7	56
50	Visual comfort assessment of smart photovoltachromic windows. <i>Energy and Buildings</i> , 2013 , 65, 137-145		40
49	Trombe Walls for Lightweight Buildings in Temperate and Hot Climates. Exploring the Use of Phase-change Materials for Performances Improvement. <i>Energy Procedia</i> , 2012 , 30, 1110-1119	2.3	40
48	Kinetic Solar Skin: A Responsive Folding Technique. <i>Energy Procedia</i> , 2015 , 70, 661-672	2.3	37
47	Time series analysis of ambient air-temperature during the period 1970-2016 over Sydney, Australia. <i>Science of the Total Environment</i> , 2019 , 648, 1627-1638	10.2	37
46	Smart windows for carbon neutral buildings: A life cycle approach. <i>Energy and Buildings</i> , 2018 , 165, 160-171		28
45	Performance assessment of BIPV/T double-skin façade for various climate zones in Australia: Effects on energy consumption. <i>Solar Energy</i> , 2020 , 199, 377-399	6.8	26
44	A numerical study on the thermal performance of night ventilated hollow core slabs cast with micro-encapsulated PCM concrete. <i>Energy and Buildings</i> , 2016 , 127, 892-906	7	24

43	Exploration of Adaptive Origami Shading Concepts through Integrated Dynamic Simulations. <i>Journal of Architectural Engineering</i> , 2018 , 24, 04018022	1.5	21
42	Shaping an Origami Shading Device through Visual and Thermal Simulations. <i>Energy Procedia</i> , 2015 , 78, 346-351	2.3	20
41	Development of a holistic urban heat island evaluation methodology. <i>Scientific Reports</i> , 2020 , 10, 17913	4.9	19
40	Numerical simulation study of BIPV/T double-skin facade for various climate zones in Australia: Effects on indoor thermal comfort. <i>Building Simulation</i> , 2019 , 12, 51-67	3.9	19
39	The Challenge for Building Integration of Highly Transparent Photovoltaics and Photoelectrochromic Devices. <i>Energies</i> , 2020 , 13, 1929	3.1	18
38	Nano-encapsulation of phase change materials: From design to thermal performance, simulations and toxicological assessment. <i>Energy and Buildings</i> , 2019 , 188-189, 1-11	7	18
37	Optimization of an External Perforated Screen for Improved Daylighting and Thermal Performance of an Office Space. <i>Procedia Engineering</i> , 2017 , 180, 571-581		17
36	Biomimetic adaptive building skins: Energy and environmental regulation in buildings. <i>Energy and Buildings</i> , 2019 , 205, 109544	7	17
35	District Geometry Simulation: A Study for the Optimization of Solar Façades in Urban Canopy Layers. <i>Energy Procedia</i> , 2012 , 30, 1163-1172	2.3	16
34	Phase-change Materials for Indoor Comfort Improvement in Lightweight Buildings. A Parametric Analysis for Australian Climates. <i>Energy Procedia</i> , 2014 , 57, 2014-2022	2.3	14
33	On the impact of modified urban albedo on ambient temperature and heat related mortality. <i>Solar Energy</i> , 2021 , 216, 493-507	6.8	14
32	Development, testing and evaluation of energy savings potentials of photoelectrochromic windows in office buildings. A perspective study for Australian climates. <i>Solar Energy</i> , 2020 , 205, 358-371	6.8	12
31	A sensitivity analysis of design parameters of BIPV/T-DSF in relation to building energy and thermal comfort performances. <i>Journal of Building Engineering</i> , 2021 , 41, 102426	5.2	12
30	On the localised climate change mitigation potential of building facades. <i>Energy and Buildings</i> , 2020 , 224, 110284	7	10
29	Urban Heat Island in Mediterranean Coastal Cities: The Case of Bari (Italy). <i>Climate</i> , 2020 , 8, 79	3.1	9
28	An Evolutionary Approach to Single-sided Ventilated Façade Design. <i>Procedia Engineering</i> , 2017 , 180, 582-590		9
27	A Framework to Achieve Multifunctionality in Biomimetic Adaptive Building Skins. <i>Buildings</i> , 2020 , 10, 114	3.2	9
26	Investigating thermal inertia in lightweight buildings for demand response 2014 ,		8

25	On the Impact of Climate Change on Building Energy Consumptions: A Meta-Analysis. <i>Energies</i> , 2022 , 15, 354	3.1	8
24	A Numerical Study of Turbulent Mixed Convection in a Smooth Horizontal Pipe. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	5
23	Nanomaterials and Smart Nanodevices for Modular Dry Constructions: The Project Easy House. <i>Procedia Engineering</i> , 2017 , 180, 704-714		5
22	Exploring thermal comfort in the context of historical conservation. A study of the vernacular architecture of Pompeii. <i>Architectural Science Review</i> , 2018 , 61, 4-14	2.6	4
21	Building Envelope Prefabricated with 3D Printing Technology. <i>Sustainability</i> , 2021 , 13, 8923	3.6	4
20	Energy and daylighting performance of building integrated spiropyrone photochromic films. <i>Solar Energy</i> , 2021 ,	6.8	3
19	Phase Change Material Integration in Building Envelopes in Different Building Types and Climates: Modeling the Benefits of Active and Passive Strategies. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4680	2.6	3
18	Performance Assessment of Earth Constructions under the Chilean Energy Rating System Software. <i>Procedia Engineering</i> , 2017 , 180, 502-509		2
17	Electrochromic window integration in adaptive building envelopes in different climates: a genetic optimization of switchable glazing parameters to reduce energy consumptions in office buildings. <i>Journal of Physics: Conference Series</i> , 2021 , 2069, 012131	0.3	2
16	Model analysis of a residential building for demand response 2015 ,		1
15	Building in Post-war Environments. <i>Procedia Engineering</i> , 2017 , 180, 1093-1102		1
14	On the combined use of laser-cut panel light redirecting systems and horizontal blinds for daylighting and solar heat control, a focus on visual comfort objectives. <i>Solar Energy</i> , 2021 , 230, 186-194	6.8	1
13	Evaluation of Absolute Maximum Urban Heat Island Intensity Based on a Simplified Remote Sensing Approach. <i>Environmental Engineering Science</i> ,	2	1
12	Performance prediction of biomimetic adaptive building skins: Integrating multifunctionality through a novel simulation framework. <i>Solar Energy</i> , 2021 , 224, 253-270	6.8	1
11	Towards the scale-up of solid-state, low-emissive electrochromic films, fabricated on a single substrate with novel electrolyte formulations. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 241, 111760	6.4	0
10	Urban overheating mitigation through facades: the role of new and innovative cool coatings 2022 , 61-87		
9	Biomimetic adaptive building skins: design and performance 2022 , 181-200		
8	Thermal enhancement of windows performance by means of innovative technologies. <i>E3S Web of Conferences</i> , 2021 , 312, 02015	0.5	

- 7 How to Set a User Reporting Supported Decision Making in Architectural Engineering and Building Production **2022**, 61-81
- 6 The Analytic Hierarchy Process in the Building Sector **2022**, 19-43
- 5 Augmented Reality to Support the Analytic Hierarchy Process **2022**, 45-59
- 4 User Reporting and Condition Ratings to Support Building Maintenance and Diagnostics **2022**, 121-140
- 3 AR-AHP to Support the Building Retrofitting: Selection of the Best Precast Concrete Panel Cladding **2022**, 83-101
- 2 User Reporting and AHP to Investigate the Perception and Social Acceptance of Wind Energy **2022**, 103-120
- 1 Climate Change Impact on Energy Poverty and Energy Efficiency in the Public Housing Building Stock of Bari, Italy. *Climate*, **2022**, 10, 55 3.1