Francesco Fiorito

List of Publications by Year in Descending Order

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	Urban overheating mitigation through facades: the role of new and innovative cool coatings **2022**, 61-87		
59	On the Impact of Climate Change on Building Energy Consumptions: A Meta-Analysis. *Energies*, **2022**, 15, 354	3.1	8
58	Biomimetic adaptive building skins: design and performance **2022**, 181-200		
57	How to Set a User Reporting Supported Decision Making in Architectural Engineering and Building Production **2022**, 61-81		
56	The Analytic Hierarchy Process in the Building Sector **2022**, 19-43		
55	Augmented Reality to Support the Analytic Hierarchy Process **2022**, 45-59		
54	User Reporting and Condition Ratings to Support Building Maintenance and Diagnostics **2022**, 121-140		
53	AR-AHP to Support the Building Retrofitting: Selection of the Best Precast Concrete Panel Cladding **2022**, 83-101		
52	User Reporting and AHP to Investigate the Perception and Social Acceptance of Wind Energy **2022**, 103-120		
51	Climate Change Impact on Energy Poverty and Energy Efficiency in the Public Housing Building Stock of Bari, Italy. *Climate*, **2022**, 10, 55	3.1	
50	Towards the scale-up of solid-state, low-emissive electrochromic films, fabricated on a single substrate with novel electrolyte formulations. *Solar Energy Materials and Solar Cells*, **2022**, 241, 111760	6.4	0
49	Electrochromic window integration in adaptive building envelopes in different climates: a genetic optimization of switchable glazing parameters to reduce energy consumptions in office buildings. *Journal of Physics: Conference Series*, **2021**, 2069, 012131	0.3	2
48	Thermal enhancement of windows performance by means of innovative technologies. *E3S Web of Conferences*, **2021**, 312, 02015	0.5	
47	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. *Solar Energy*, **2021**, 230, 186-194	6.8	1
46	Energy and daylighting performance of building integrated spirooxazine photochromic films. *Solar Energy*, **2021**,	6.8	3
45	On the impact of modified urban albedo on ambient temperature and heat related mortality. *Solar Energy*, **2021**, 216, 493-507	6.8	14
44	Phase Change Material Integration in Building Envelopes in Different Building Types and Climates: Modeling the Benefits of Active and Passive Strategies. *Applied Sciences (Switzerland)*, **2021**, 11, 4680	2.6	3

43	Building Envelope Prefabricated with 3D Printing Technology. *Sustainability*, **2021**, 13, 8923	3.6	4
42	Performance prediction of biomimetic adaptive building skins: Integrating multifunctionality through a novel simulation framework. *Solar Energy*, **2021**, 224, 253-270	6.8	1
41	A sensitivity analysis of design parameters of BIPV/T-DSF in relation to building energy and thermal comfort performances. *Journal of Building Engineering*, **2021**, 41, 102426	5.2	12
40	Development, testing and evaluation of energy savings potentials of photovoltachromic windows in office buildings. A perspective study for Australian climates. *Solar Energy*, **2020**, 205, 358-371	6.8	12
39	Urban Heat Island in Mediterranean Coastal Cities: The Case of Bari (Italy). *Climate*, **2020**, 8, 79	3.1	9
38	On the localised climate change mitigation potential of building facades. *Energy and Buildings*, **2020**, 224, 110284	7	10
37	Performance assessment of BIPV/T double-skin façade for various climate zones in Australia: Effects on energy consumption. *Solar Energy*, **2020**, 199, 377-399	6.8	26
36	The Challenge for Building Integration of Highly Transparent Photovoltaics and Photoelectrochromic Devices. *Energies*, **2020**, 13, 1929	3.1	18
35	Development of a holistic urban heat island evaluation methodology. *Scientific Reports*, **2020**, 10, 17913	4.9	19
34	A Framework to Achieve Multifunctionality in Biomimetic Adaptive Building Skins. *Buildings*, **2020**, 10, 114	3.2	9
33	Smart Electrochromic Windows to Enhance Building Energy Efficiency and Visual Comfort. *Energies*, **2020**, 13, 1449	3.1	65
32	Biomimetic adaptive building skins: Energy and environmental regulation in buildings. *Energy and Buildings*, **2019**, 205, 109544	7	17
31	Nano-encapsulation of phase change materials: From design to thermal performance, simulations and toxicological assessment. *Energy and Buildings*, **2019**, 188-189, 1-11	7	18
30	Time series analysis of ambient air-temperature during the period 1970-2016 over Sydney, Australia. *Science of the Total Environment*, **2019**, 648, 1627-1638	10.2	37
29	Numerical simulation study of BIPV/T double-skin facade for various climate zones in Australia: Effects on indoor thermal comfort. *Building Simulation*, **2019**, 12, 51-67	3.9	19
28	Exploring thermal comfort in the context of historical conservation. A study of the vernacular architecture of Pompeii. *Architectural Science Review*, **2018**, 61, 4-14	2.6	4
27	On the energy impact of urban heat island in Sydney: Climate and energy potential of mitigation technologies. *Energy and Buildings*, **2018**, 166, 154-164	7	86
26	Smart windows for carbon neutral buildings: A life cycle approach. *Energy and Buildings*, **2018**, 165, 160-171	7	28

25	Exploration of Adaptive Origami Shading Concepts through Integrated Dynamic Simulations. *Journal of Architectural Engineering*, **2018**, 24, 04018022	1.5	21
24	Building integration of semitransparent perovskite-based solar cells: Energy performance and visual comfort assessment. *Applied Energy*, **2017**, 194, 94-107	10.7	59
23	Optimization of an External Perforated Screen for Improved Daylighting and Thermal Performance of an Office Space. *Procedia Engineering*, **2017**, 180, 571-581		17
22	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. *Solar Energy*, **2017**, 154, 14-33	6.8	167
21	Performance Assessment of Earth Constructions under the Chilean Energy Rating System Software. *Procedia Engineering*, **2017**, 180, 502-509		2
20	Nanomaterials and Smart Nanodevices for Modular Dry Constructions: The Project Easy House *Procedia Engineering*, **2017**, 180, 704-714		5
19	Building in Post-war Environments. *Procedia Engineering*, **2017**, 180, 1093-1102		1
18	An Evolutionary Approach to Single-sided Ventilated Façade Design. *Procedia Engineering*, **2017**, 180, 582-590		9
17	Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements. *Sustainability*, **2017**, 9, 712	3.6	61
16	A numerical study on the thermal performance of night ventilated hollow core slabs cast with micro-encapsulated PCM concrete. *Energy and Buildings*, **2016**, 127, 892-906	7	24
15	Forthcoming perspectives of photoelectrochromic devices: a critical review. *Energy and Environmental Science*, **2016**, 9, 2682-2719	35.4	103
14	A Numerical Study of Turbulent Mixed Convection in a Smooth Horizontal Pipe. *Journal of Heat Transfer*, **2016**, 138,	1.8	5
13	Shape morphing solar shadings: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 55, 863-884	16.2	71
12	Optimal control and performance of photovoltachromic switchable glazing for building integration in temperate climates. *Applied Energy*, **2016**, 178, 943-961	10.7	56
11	Kinetic Solar Skin: A Responsive Folding Technique. *Energy Procedia*, **2015**, 70, 661-672	2.3	37
10	Model analysis of a residential building for demand response **2015**,		1
9	Shaping an Origami Shading Device through Visual and Thermal Simulations. *Energy Procedia*, **2015**, 78, 346-351	2.3	20
8	Daylight Design of Office Buildings: Optimisation of External Solar Shadings by Using Combined Simulation Methods. *Buildings*, **2015**, 5, 560-580	3.2	61

List of Publications

7	Phase-change Materials for Indoor Comfort Improvement in Lightweight Buildings. A Parametric Analysis for Australian Climates. *Energy Procedia*, **2014**, 57, 2014-2022	2.3	14
6	Investigating thermal inertia in lightweight buildings for demand response **2014**,		8
5	Visual comfort assessment of smart photovoltachromic windows. *Energy and Buildings*, **2013**, 65, 137-145	3	40
4	Trombe Walls for Lightweight Buildings in Temperate and Hot Climates. Exploring the Use of Phase-change Materials for Performances Improvement. *Energy Procedia*, **2012**, 30, 1110-1119	2.3	40
3	District Geometry Simulation: A Study for the Optimization of Solar Façades in Urban Canopy Layers. *Energy Procedia*, **2012**, 30, 1163-1172	2.3	16
2	Multifunctional bioinspired sol-gel coatings for architectural glasses. *Building and Environment*, **2010**, 45, 1233-1243	6.5	66
1	Evaluation of Absolute Maximum Urban Heat Island Intensity Based on a Simplified Remote Sensing Approach. *Environmental Engineering Science*,	2	1