

# Francesco Fiorito

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,095  
citations

236833

25  
h-index

233338

45  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2046  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.9	248
2	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.	3.1	136
3	Smart Electrochromic Windows to Enhance Building Energy Efficiency and Visual Comfort. <i>Energies</i> , 2020, 13, 1449.	1.6	130
4	Shape morphing solar shadings: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 863-884.	8.2	123
5	Forthcoming perspectives of photoelectrochromic devices: a critical review. <i>Energy and Environmental Science</i> , 2016, 9, 2682-2719.	15.6	122
6	Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements. <i>Sustainability</i> , 2017, 9, 712.	1.6	87
7	Daylight Design of Office Buildings: Optimisation of External Solar Shadings by Using Combined Simulation Methods. <i>Buildings</i> , 2015, 5, 560-580.	1.4	82
8	Building integration of semitransparent perovskite-based solar cells: Energy performance and visual comfort assessment. <i>Applied Energy</i> , 2017, 194, 94-107.	5.1	76
9	Multifunctional bioinspired sol-gel coatings for architectural glasses. <i>Building and Environment</i> , 2010, 45, 1233-1243.	3.0	75
10	Performance assessment of BIPV/T double-skin facade for various climate zones in Australia: Effects on energy consumption. <i>Solar Energy</i> , 2020, 199, 377-399.	2.9	74
11	Optimal control and performance of photovoltachromic switchable glazing for building integration in temperate climates. <i>Applied Energy</i> , 2016, 178, 943-961.	5.1	70
12	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.	1.8	52
13	Kinetic Solar Skin: A Responsive Folding Technique. <i>Energy Procedia</i> , 2015, 70, 661-672.	1.8	51
14	Development of a holistic urban heat island evaluation methodology. <i>Scientific Reports</i> , 2020, 10, 17913.	1.6	47
15	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.	3.9	46
16	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.	3.0	45
17	Visual comfort assessment of smart photovoltachromic windows. <i>Energy and Buildings</i> , 2013, 65, 137-145.	3.1	44
18	Exploration of Adaptive Origami Shading Concepts through Integrated Dynamic Simulations. <i>Journal of Architectural Engineering</i> , 2018, 24, .	0.8	41

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19	Smart windows for carbon neutral buildings: A life cycle approach. <i>Energy and Buildings</i> , 2018, 165, 160-171.	3.1	38
20	Biomimetic adaptive building skins: Energy and environmental regulation in buildings. <i>Energy and Buildings</i> , 2019, 205, 109544.	3.1	36
21	Shaping an Origami Shading Device through Visual and Thermal Simulations. <i>Energy Procedia</i> , 2015, 78, 346-351.	1.8	31
22	On the impact of modified urban albedo on ambient temperature and heat related mortality. <i>Solar Energy</i> , 2021, 216, 493-507.	2.9	31
23	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.	3.1	30
24	Optimization of an External Perforated Screen for Improved Daylighting and Thermal Performance of an Office Space. <i>Procedia Engineering</i> , 2017, 180, 571-581.	1.2	29
25	On the Impact of Climate Change on Building Energy Consumptions: A Meta-Analysis. <i>Energies</i> , 2022, 15, 354.	1.6	28
26	The Challenge for Building Integration of Highly Transparent Photovoltaics and Photoelectrochromic Devices. <i>Energies</i> , 2020, 13, 1929.	1.6	26
27	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.	3.1	25
28	District Geometry Simulation: A Study for the Optimization of Solar Façades in Urban Canopy Layers. <i>Energy Procedia</i> , 2012, 30, 1163-1172.	1.8	22
29	Urban Heat Island in Mediterranean Coastal Cities: The Case of Bari (Italy). <i>Climate</i> , 2020, 8, 79.	1.2	22
30	Energy and daylighting performance of building integrated spirooxazine photochromic films. <i>Solar Energy</i> , 2022, 242, 424-434.	2.9	22
31	Building Envelope Prefabricated with 3D Printing Technology. <i>Sustainability</i> , 2021, 13, 8923.	1.6	21
32	A Framework to Achieve Multifunctionality in Biomimetic Adaptive Building Skins. <i>Buildings</i> , 2020, 10, 114.	1.4	18
33	Development, testing and evaluation of energy savings potentials of photovoltachromic windows in office buildings. A perspective study for Australian climates. <i>Solar Energy</i> , 2020, 205, 358-371.	2.9	18
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.	1.8	15
35	On the localised climate change mitigation potential of building facades. <i>Energy and Buildings</i> , 2020, 224, 110284.	3.1	15
36	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.	1.6	15

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37	Performance prediction of biomimetic adaptive building skins: Integrating multifunctionality through a novel simulation framework. <i>Solar Energy</i> , 2021, 224, 253-270.	2.9	12
38	An Evolutionary Approach to Single-sided Ventilated Façade Design. <i>Procedia Engineering</i> , 2017, 180, 582-590.	1.2	10
39	Investigating thermal inertia in lightweight buildings for demand response. , 2014, , .		9
40	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.	1.1	9
41	Nanomaterials and Smart Nanodevices for Modular Dry Constructions: The Project "Easy House". <i>Procedia Engineering</i> , 2017, 180, 704-714.	1.2	8
42	Evaluation of Absolute Maximum Urban Heat Island Intensity Based on a Simplified Remote Sensing Approach. <i>Environmental Engineering Science</i> , 2022, 39, 296-307.	0.8	8
43	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.	1.3	7
44	A Numerical Study of Turbulent Mixed Convection in a Smooth Horizontal Pipe. <i>Journal of Heat Transfer</i> , 2016, 138, .	1.2	6
45	Building in Post-war Environments. <i>Procedia Engineering</i> , 2017, 180, 1093-1102.	1.2	6
46	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.	2.9	5
47	Studies on Optimal Application of Building-Integrated Photovoltaic/Thermal Facade for Commercial Buildings in Australia. , 2017, , .		4
48	Climate Change Impact on Energy Poverty and Energy Efficiency in the Public Housing Building Stock of Bari, Italy. <i>Climate</i> , 2022, 10, 55.	1.2	4
49	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.	3.0	3
50	Performance Assessment of Earth Constructions under the Chilean Energy Rating System Software. <i>Procedia Engineering</i> , 2017, 180, 502-509.	1.2	2
51	Novel Technologies to Enhance Energy Performance and Indoor Environmental Quality of Buildings. <i>Buildings</i> , 2021, 11, 303.	1.4	2
52	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
53	Adaptation of Users to Future Climate Conditions in Naturally Ventilated Historic Buildings: Effects on Indoor Comfort. <i>Energies</i> , 2022, 15, 4984.	1.6	2
54	Model analysis of a residential building for demand response. , 2015, , .		1

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55	The Analytic Hierarchy Process in the Building Sector. , 2022, , 19-43.		1
56	Optimization of windowsâ€™ design in residential buildings Use of overall Life Cycle Energy (LCE) indicator. , 2016, , .		1
57	Urban overheating mitigation through facades: the role of new and innovative cool coatings. , 2022, , 61-87.		1
58	How to Set a User Reporting Supported Decision Making in Architectural Engineering and Building Production. , 2022, , 61-81.		0
59	Augmented Reality to Support the Analytic Hierarchy Process. , 2022, , 45-59.		0
60	User Reporting and Condition Ratings to Support Building Maintenance and Diagnostics. , 2022, , 121-140.		0
61	AR-AHP to Support the Building Retrofitting: Selection of the Best Precast Concrete Panel Cladding. , 2022, , 83-101.		0
62	User Reporting and AHP to Investigate the Perception and Social Acceptance of Wind Energy. , 2022, , 103-120.		0
63	New Approaches for Multi-Criteria Analysis in Building Constructions. , 2022, , .		0
64	Thermal enhancement of windows performance by means of innovative technologies. E3S Web of Conferences, 2021, 312, 02015.	0.2	0
65	Biomimetic adaptive building skins: design and performance. , 2022, , 181-200.		0