

# Anna Laura Pisello

## List of Publications by Year in descending order

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198  
papers

6,984  
citations

44042

48  
h-index

88593

70  
g-index

198  
all docs

198  
docs citations

198  
times ranked

4830  
citing authors

#	ARTICLE	IF	CITATIONS
1	LOCAL CLIMATE CHANGE AND URBAN HEAT ISLAND MITIGATION TECHNIQUES “ THE STATE OF THE ART. Journal of Civil Engineering and Management, 2015, 22, 1-16.	1.9	326
2	State of the art on the development of cool coatings for buildings and cities. Solar Energy, 2017, 144, 660-680.	2.9	170
3	Analysis of retro-reflective surfaces for urban heat island mitigation: A new analytical model. Applied Energy, 2014, 114, 621-631.	5.1	162
4	Environmental effects on natural frequencies of the San Pietro bell tower in Perugia, Italy, and their removal for structural performance assessment. Mechanical Systems and Signal Processing, 2017, 82, 307-322.	4.4	147
5	Inter-building effect: Simulating the impact of a network of buildings on the accuracy of building energy performance predictions. Building and Environment, 2012, 58, 37-45.	3.0	128
6	The thermal effect of an innovative cool roof on residential buildings in Italy: Results from two years of continuous monitoring. Energy and Buildings, 2014, 69, 154-164.	3.1	128
7	Review of multi-domain approaches to indoor environmental perception and behaviour. Building and Environment, 2020, 176, 106804.	3.0	127
8	PROGRESS IN URBAN GREENERY MITIGATION SCIENCE “ ASSESSMENT METHODOLOGIES ADVANCED TECHNOLOGIES AND IMPACT ON CITIES. Journal of Civil Engineering and Management, 2018, 24, 638-671.	1.9	109
9	Multifunctional smart concretes with novel phase change materials: Mechanical and thermo-energy investigation. Applied Energy, 2018, 212, 1448-1461.	5.1	107
10	On an innovative integrated technique for energy refurbishment of historical buildings: Thermal-energy, economic and environmental analysis of a case study. Applied Energy, 2016, 162, 1313-1322.	5.1	101
11	A method for assessing buildings’ energy efficiency by dynamic simulation and experimental activity. Applied Energy, 2012, 97, 419-429.	5.1	97
12	Albedo control as an effective strategy to tackle Global Warming: A case study. Applied Energy, 2014, 130, 641-647.	5.1	95
13	Multipurpose characterization of glazing systems with silica aerogel: In-field experimental analysis of thermal-energy, lighting and acoustic performance. Building and Environment, 2014, 81, 92-102.	3.0	94
14	Human-based energy retrofits in residential buildings: A cost-effective alternative to traditional physical strategies. Applied Energy, 2014, 133, 224-235.	5.1	91
15	Toward mitigating urban heat island effects: Investigating the thermal-energy impact of bio-inspired retro-reflective building envelopes in dense urban settings. Energy and Buildings, 2015, 102, 380-389.	3.1	85
16	Integration of renewable technologies in historical and heritage buildings: A review. Energy and Buildings, 2018, 177, 96-111.	3.1	85
17	On the thermal and visual pedestrians' perception about cool natural stones for urban paving: A field survey in summer conditions. Building and Environment, 2016, 107, 198-214.	3.0	84
18	Exploring mutual shading and mutual reflection inter-building effects on building energy performance. Applied Energy, 2017, 185, 1556-1564.	5.1	84

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19	Optimal control of natural ventilation as passive cooling strategy for improving the energy performance of building envelope with PCM integration. <i>Renewable Energy</i> , 2020, 162, 171-181.	4.3	84
20	On the impact of innovative materials on outdoor thermal comfort of pedestrians in historical urban canyons. <i>Renewable Energy</i> , 2018, 118, 825-839.	4.3	81
21	A review of select human-building interfaces and their relationship to human behavior, energy use and occupant comfort. <i>Building and Environment</i> , 2020, 178, 106920.	3.0	79
22	On the effect of summer heatwaves and urban overheating on building thermal-energy performance in central Italy. <i>Sustainable Cities and Society</i> , 2017, 28, 187-200.	5.1	76
23	Multipurpose experimental characterization of smart nanocomposite cement-based materials for thermal-energy efficiency and strain-sensing capability. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 77-88.	3.0	75
24	Outdoor comfort conditions in urban areas: On citizens' perspective about microclimate mitigation of urban transit areas. <i>Sustainable Cities and Society</i> , 2018, 39, 16-36.	5.1	73
25	What drives our behaviors in buildings? A review on occupant interactions with building systems from the lens of behavioral theories. <i>Building and Environment</i> , 2020, 179, 106928.	3.0	73
26	Experimental in-lab and in-field analysis of waterproof membranes for cool roof application and urban heat island mitigation. <i>Energy and Buildings</i> , 2016, 114, 180-190.	3.1	67
27	Adaptive measures for mitigating urban heat islands: The potential of thermochromic materials to control roofing energy balance. <i>Applied Energy</i> , 2019, 247, 155-170.	5.1	65
28	Active cool roof effect: impact of cool roofs on cooling system efficiency. <i>Advances in Building Energy Research</i> , 2013, 7, 209-221.	1.1	64
29	Experimental Analysis of Natural Gravel Covering as Cool Roofing and Cool Pavement. <i>Sustainability</i> , 2014, 6, 4706-4722.	1.6	64
30	The impact of place-based affiliation networks on energy conservation: An holistic model that integrates the influence of buildings, residents and the neighborhood context. <i>Energy and Buildings</i> , 2012, 55, 637-646.	3.1	63
31	How outdoor microclimate mitigation affects building thermal-energy performance: A new design-stage method for energy saving in residential near-zero energy settlements in Italy. <i>Renewable Energy</i> , 2018, 127, 920-935.	4.3	63
32	Infrared Thermography Assessment of Thermal Bridges in Building Envelope: Experimental Validation in a Test Room Setup. <i>Sustainability</i> , 2014, 6, 7107-7120.	1.6	62
33	Experimental and numerical characterization of innovative cardboard based panels: Thermal and acoustic performance analysis and life cycle assessment. <i>Building and Environment</i> , 2016, 95, 145-159.	3.0	61
34	Thermal-physics and energy performance of an innovative green roof system: The Cool-Green Roof. <i>Solar Energy</i> , 2015, 116, 337-356.	2.9	60
35	Summer and Winter Effect of Innovative Cool Roof Tiles on the Dynamic Thermal Behavior of Buildings. <i>Energies</i> , 2014, 7, 2343-2361.	1.6	58
36	Effect of dynamic characteristics of building envelope on thermal-energy performance in winter conditions: In field experiment. <i>Energy and Buildings</i> , 2014, 80, 218-230.	3.1	57

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37	Thermal stress reduction in cool roof membranes using phase change materials (PCM). Energy and Buildings, 2018, 158, 1097-1105.	3.1	57
38	How subjective and non-physical parameters affect occupants' environmental comfort perception. Energy and Buildings, 2018, 178, 107-129.	3.1	57
39	Behaviour of a concrete wall containing micro-encapsulated PCM after a decade of its construction. Solar Energy, 2020, 200, 108-113.	2.9	57
40	Assessing occupants' personal attributes in relation to human perception of environmental comfort: Measurement procedure and data analysis. Building and Environment, 2020, 177, 106901.	3.0	57
41	A Building Energy Efficiency Optimization Method by Evaluating the Effective Thermal Zones Occupancy. Energies, 2012, 5, 5257-5278.	1.6	56
42	Palm oil-based bio-PCM for energy efficient building applications: Multipurpose thermal investigation and life cycle assessment. Journal of Energy Storage, 2020, 28, 101129.	3.9	56
43	Expanding Inter-Building Effect modeling to examine primary energy for lighting. Energy and Buildings, 2014, 76, 513-523.	3.1	55
44	Influence of human behavior on cool roof effect for summer cooling. Building and Environment, 2015, 88, 116-128.	3.0	55
45	Environmental Impact of Industrial Prefabricated Buildings: Carbon and Energy Footprint Analysis Based on an LCA Approach. Energy Procedia, 2014, 61, 2841-2844.	1.8	52
46	Hierarchical environmental risk mapping of material degradation in historic masonry buildings: An integrated approach considering climate change and structural damage. Construction and Building Materials, 2019, 215, 998-1014.	3.2	52
47	Occupant behavior long-term continuous monitoring integrated to prediction models: Impact on office building energy performance. Energy, 2019, 176, 667-681.	4.5	51
48	Thermal-energy analysis of natural 'cool' stone aggregates as passive cooling and global warming mitigation technique. Urban Climate, 2015, 14, 301-314.	2.4	50
49	Development of Clay Tile Coatings for Steep-Sloped Cool Roofs. Energies, 2013, 6, 3637-3653.	1.6	49
50	PCM for improving polyurethane-based cool roof membranes durability. Solar Energy Materials and Solar Cells, 2017, 160, 34-42.	3.0	48
51	Sustainable adobe bricks with seagrass fibres. Mechanical and thermal properties characterization. Construction and Building Materials, 2020, 239, 117669.	3.2	48
52	Modelling urban-scale occupant behaviour, mobility, and energy in buildings: A survey. Building and Environment, 2020, 183, 106964.	3.0	48
53	An energy-balanced analytic model for urban heat canyons: comparison with experimental data. Advances in Building Energy Research, 2013, 7, 222-234.	1.1	47
54	Thermal and lighting effects of an external venetian blind: Experimental analysis in a full scale test room. Building and Environment, 2016, 106, 45-56.	3.0	47

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55	A new wearable monitoring system for investigating pedestrians' environmental conditions: Development of the experimental tool and start-up findings. <i>Science of the Total Environment</i> , 2018, 630, 690-706.	3.9	47
56	The hygrothermal performance of residential buildings at urban and rural sites: Sensible and latent energy loads and indoor environmental conditions. <i>Energy and Buildings</i> , 2017, 152, 792-803.	3.1	45
57	Measuring human physiological indices for thermal comfort assessment through wearable devices: A review. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 183, 109872.	2.5	45
58	Experimental thermo-acoustic characterization of innovative common reed bio-based panels for building envelope. <i>Building and Environment</i> , 2016, 102, 217-229.	3.0	42
59	New cool concrete for building envelopes and urban paving: Optics-energy and thermal assessment in dynamic conditions. <i>Energy and Buildings</i> , 2017, 151, 381-392.	3.1	42
60	The impacts of building characteristics, social psychological and cultural factors on indoor environment quality productivity belief. <i>Building and Environment</i> , 2020, 185, 107189.	3.0	42
61	How peers' personal attitudes affect indoor microclimate and energy need in an institutional building: Results from a continuous monitoring campaign in summer and winter conditions. <i>Energy and Buildings</i> , 2016, 126, 485-497.	3.1	41
62	Phosphorescent-based pavements for counteracting urban overheating – A proof of concept. <i>Solar Energy</i> , 2020, 202, 540-552.	2.9	40
63	Human-building interaction at work: Findings from an interdisciplinary cross-country survey in Italy. <i>Building and Environment</i> , 2018, 132, 147-159.	3.0	39
64	Intra-urban microclimate investigation in urban heat island through a novel mobile monitoring system. <i>Scientific Reports</i> , 2021, 11, 9732.	1.6	39
65	An Integrated HBIM Simulation Approach for Energy Retrofit of Historical Buildings Implemented in a Case Study of a Medieval Fortress in Italy. <i>Energies</i> , 2020, 13, 2601.	1.6	38
66	Network synergy effect: Establishing a synergy between building network and peer network energy conservation effects. <i>Energy and Buildings</i> , 2014, 68, 312-320.	3.1	37
67	Integrated Thermal-Energy Analysis of Innovative Translucent White Marble for Building Envelope Application. <i>Sustainability</i> , 2014, 6, 5439-5462.	1.6	37
68	Sustainable Ethanol Production from Common Reed ( <i>Phragmites australis</i> ) through Simultaneous Saccharification and Fermentation. <i>Sustainability</i> , 2015, 7, 12149-12163.	1.6	36
69	Innovative Cardboard Based Panels with Recycled Materials from the Packaging Industry: Thermal and Acoustic Performance Analysis. <i>Energy Procedia</i> , 2015, 78, 321-326.	1.8	36
70	The role of building occupants' education in their resilience to climate-change related events. <i>Energy and Buildings</i> , 2017, 154, 217-231.	3.1	35
71	Experimental testing of cooling internal loads with a radiant wall. <i>Renewable Energy</i> , 2018, 116, 1-8.	4.3	35
72	Thermochromic materials for indoor thermal comfort improvement: Finite difference modeling and validation in a real case-study building. <i>Applied Energy</i> , 2020, 262, 114147.	5.1	35

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73	Differentiating responses of weather files and local climate change to explain variations in building thermal-energy performance simulations. <i>Solar Energy</i> , 2017, 153, 224-237.	2.9	34
74	Decarbonizing household heating: Reviewing demographics, geography and low-carbon practices and preferences in five European countries. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110703.	8.2	34
75	How to enhance thermal energy storage effect of PCM in roofs with varying solar reflectance: Experimental and numerical assessment of a new roof system for passive cooling in different climate conditions. <i>Solar Energy</i> , 2019, 192, 106-119.	2.9	33
76	Test rooms to study human comfort in buildings: A review of controlled experiments and facilities. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111359.	8.2	32
77	On a Cool Coating for Roof Clay Tiles: Development of the Prototype and Thermal-energy Assessment. <i>Energy Procedia</i> , 2014, 45, 453-462.	1.8	31
78	Thermal-energy analysis of roof cool clay tiles for application in historic buildings and cities. <i>Sustainable Cities and Society</i> , 2015, 19, 271-280.	5.1	31
79	Innovative cool roofing membrane with integrated phase change materials: Experimental characterization of morphological, thermal and optic-energy behavior. <i>Energy and Buildings</i> , 2016, 112, 40-48.	3.1	31
80	Inter-building assessment of urban heat island mitigation strategies: Field tests and numerical modelling in a simplified-geometry experimental set-up. <i>Renewable Energy</i> , 2020, 147, 1663-1675.	4.3	31
81	A Global Building Occupant Behavior Database. <i>Scientific Data</i> , 2022, 9, .	2.4	31
82	Sustainability Assessment of Historic Buildings: Lesson Learnt from an Italian case Study through LEED® Rating System. <i>Energy Procedia</i> , 2014, 61, 1029-1032.	1.8	30
83	The Impact of Local Microclimate Boundary Conditions on Building Energy Performance. <i>Sustainability</i> , 2015, 7, 9207-9230.	1.6	30
84	The impact of natural ventilation on building energy requirement at inter-building scale. <i>Energy and Buildings</i> , 2016, 127, 870-883.	3.1	29
85	Optimization of roof solar reflectance under different climate conditions, occupancy, building configuration and energy systems. <i>Energy and Buildings</i> , 2017, 151, 81-97.	3.1	29
86	Thermal performance of coupled cool roof and cool façade: Experimental monitoring and analytical optimization procedure. <i>Energy and Buildings</i> , 2017, 157, 35-52.	3.1	27
87	Environmental data clustering analysis through wearable sensing techniques: New bottom-up process aimed to identify intra-urban granular morphologies from pedestrian transects. <i>Building and Environment</i> , 2020, 171, 106641.	3.0	27
88	Investigation of CO2 Variation and Mapping Through Wearable Sensing Techniques for Measuring Pedestrians'™ Exposure in Urban Areas. <i>Sustainability</i> , 2020, 12, 3936.	1.6	27
89	Environmental assessment of four waste cooking oil valorization pathways. <i>Waste Management</i> , 2022, 138, 219-233.	3.7	27
90	Experimental Analysis of Cool Traditional Solar Shading Systems for Residential Buildings. <i>Energies</i> , 2015, 8, 2197-2210.	1.6	26

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91	Empirical data-driven multi-layer perceptron and radial basis function techniques in predicting the performance of nanofluid-based modified tubular solar collectors. <i>Journal of Cleaner Production</i> , 2021, 295, 126409.	4.6	26
92	Long Persistent Luminescence: A Road Map Toward Promising Future Developments in Energy and Environmental Science. <i>Annual Review of Materials Research</i> , 2021, 51, 409-433.	4.3	26
93	Microclimate and air quality investigation in historic hilly urban areas: Experimental and numerical investigation in central Italy. <i>Sustainable Cities and Society</i> , 2017, 33, 27-44.	5.1	25
94	Assessing the Potentiality of Animal Fat Based-Bio Phase Change Materials (PCM) for Building Applications: An Innovative Multipurpose Thermal Investigation. <i>Energies</i> , 2019, 12, 1111.	1.6	25
95	Cultural heritage microclimate change: Human-centric approach to experimentally investigate intra-urban overheating and numerically assess foreseen future scenarios impact. <i>Science of the Total Environment</i> , 2020, 703, 134448.	3.9	25
96	Facility Energy Management Application of HBIM for Historical Low-Carbon Communities: Design, Modelling and Operation Control of Geothermal Energy Retrofit in a Real Italian Case Study. <i>Energies</i> , 2020, 13, 6338.	1.6	25
97	Investigation on the effect of innovative cool tiles on local indoor thermal conditions: Finite element modeling and continuous monitoring. <i>Building and Environment</i> , 2016, 97, 55-68.	3.0	24
98	Development of Net Zero Energy Settlements Using Advanced Energy Technologies. <i>Procedia Engineering</i> , 2017, 180, 1388-1401.	1.2	24
99	Cool Roof Impact on Building Energy Need: The Role of Thermal Insulation with Varying Climate Conditions. <i>Energies</i> , 2019, 12, 3354.	1.6	24
100	Thermo-optic durability of cool roof membranes: Effect of shape stabilized phase change material inclusion on building energy efficiency. <i>Energy and Buildings</i> , 2020, 207, 109592.	3.1	24
101	Microclimate mitigation for enhancing energy and environmental performance of Near Zero Energy Settlements in Italy. <i>Sustainable Cities and Society</i> , 2020, 53, 101964.	5.1	24
102	Natural Materials for Thermal Insulation and Passive Cooling Application. <i>Key Engineering Materials</i> , 2015, 666, 1-16.	0.4	23
103	Multifunctional Analysis of Innovative PCM-filled Concretes. <i>Energy Procedia</i> , 2017, 111, 81-90.	1.8	23
104	On Innovative Cool-Colored Materials for Building Envelopes: Balancing the Architectural Appearance and the Thermal-Energy Performance in Historical Districts. <i>Sustainability</i> , 2017, 9, 2319.	1.6	23
105	Simulating the Thermal-Energy Performance of Buildings at the Urban Scale: Evaluation of Inter-Building Effects in Different Urban Configurations. <i>Journal of Urban Technology</i> , 2014, 21, 3-20.	2.5	22
106	Outdoor Thermal and Visual Perception of Natural Cool Materials for Roof and Urban Paving. <i>Procedia Engineering</i> , 2015, 118, 1325-1332.	1.2	22
107	Translucent marbles for building envelope applications: Weathering effects on surface lightness and finishing when exposed to simulated acid rain. <i>Construction and Building Materials</i> , 2016, 108, 146-153.	3.2	22
108	Trends and gaps in global research of greenery systems through a bibliometric analysis. <i>Sustainable Cities and Society</i> , 2021, 65, 102608.	5.1	22

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109	For the mitigation of urban heat island and urban noise island: two simultaneous sides of urban discomfort. <i>Environmental Research Letters</i> , 2020, 15, 103004.	2.2	22
110	A novel methodology for human thermal comfort decoding via physiological signals measurement and analysis. <i>Building and Environment</i> , 2022, 222, 109385.	3.0	22
111	The Experience of International Sustainability Protocols for Retrofitting Historical Buildings in Italy. <i>Buildings</i> , 2017, 7, 52.	1.4	21
112	Facing the urban overheating: Recent developments. Mitigation potential and sensitivity of the main technologies. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2018, 7, e294.	1.9	21
113	Human-centric green building design: the energy saving potential of occupants'™ behaviour enhancement in the office environment. <i>Journal of Building Performance Simulation</i> , 2020, 13, 621-644.	1.0	21
114	Assessing users'™ willingness-to-engagement towards Net Zero Energy communities in Italy. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111627.	8.2	21
115	A New Wearable System for Sensing Outdoor Environmental Conditions for Monitoring Hyper-Microclimate. <i>Sensors</i> , 2022, 22, 502.	2.1	21
116	Cool Marble Building Envelopes: The Effect of Aging on Energy Performance and Aesthetics. <i>Sustainability</i> , 2016, 8, 753.	1.6	20
117	Traditional and Innovative Materials for Energy Efficiency in Buildings. <i>Key Engineering Materials</i> , 0, 678, 14-34.	0.4	19
118	On an innovative approach for microclimate enhancement and retrofit of historic buildings and artworks preservation by means of innovative thin envelope materials. <i>Journal of Cultural Heritage</i> , 2019, 36, 222-231.	1.5	19
119	Life Cycle Assessment on Different Synthetic Routes of ZIF-8 Nanomaterials. <i>Energies</i> , 2021, 14, 4998.	1.6	19
120	Quantifying the effects of interior surface reflectance on indoor lighting. <i>Energy Procedia</i> , 2017, 134, 306-316.	1.8	18
121	Thermo-acoustic performance of green roof substrates in dynamic hygrothermal conditions. <i>Energy and Buildings</i> , 2018, 178, 140-153.	3.1	18
122	Effect of PCM on the Hydration Process of Cement-Based Mixtures: A Novel Thermo-Mechanical Investigation. <i>Materials</i> , 2018, 11, 871.	1.3	18
123	Humans in the city: Representing outdoor thermal comfort in urban canopy models. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110103.	8.2	18
124	Human-centric microclimate analysis of Urban Heat Island: Wearable sensing and data-driven techniques for identifying mitigation strategies in New York City. <i>Urban Climate</i> , 2020, 34, 100716.	2.4	18
125	Palm oil for seasonal thermal energy storage applications in buildings: The potential of multiple melting ranges in blends of bio-based fatty acids. <i>Journal of Energy Storage</i> , 2020, 29, 101431.	3.9	18
126	Pocket parks for human-centered urban climate change resilience: Microclimate field tests and multi-domain comfort analysis through portable sensing techniques and citizens'™ science. <i>Energy and Buildings</i> , 2022, 260, 111918.	3.1	18



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127	The NEXT.ROOM: Design principles and systems trials of a novel test room aimed at deepening our knowledge on human comfort. <i>Building and Environment</i> , 2022, 211, 108744.	3.0	17
128	Dynamic Thermal-energy Performance Analysis of a Prototype Building with Integrated Phase Change Materials. <i>Energy Procedia</i> , 2015, 81, 82-88.	1.8	16
129	Combined Thermal Effect of Cool Roof and Cool Façade on a Prototype Building. <i>Energy Procedia</i> , 2015, 78, 1556-1561.	1.8	16
130	Necessary Conditions for Multi-Domain Indoor Environmental Quality Standards. <i>Sustainability</i> , 2020, 12, 8439.	1.6	16
131	Life cycle assessment and life cycle costing of an innovative component for refrigeration units. <i>Journal of Cleaner Production</i> , 2021, 295, 126442.	4.6	16
132	TIAR: Renewable Energy Production, Storage and Distribution; A New Multidisciplinary Approach for the Design of Rural Facility. <i>Energy Procedia</i> , 2014, 45, 323-332.	1.8	15
133	Intra-urban microclimate mapping for citizens' wellbeing: Novel wearable sensing techniques and automatized data-processing. <i>Journal of Cleaner Production</i> , 2021, 279, 123748.	4.6	15
134	Thermo-acoustic and mechanical characterization of novel bio-based plasters: The valorisation of lignin as by-product from biomass extraction for green building applications. <i>Construction and Building Materials</i> , 2021, 278, 122373.	3.2	15
135	Thermal comfort in the historical urban canyon: the effect of innovative materials. <i>Energy Procedia</i> , 2017, 134, 151-160.	1.8	14
136	Development of photoluminescent composites for energy efficiency in smart outdoor lighting applications: An experimental and numerical investigation. <i>Renewable Energy</i> , 2021, 172, 1-15.	4.3	14
137	Exploring the potential of photoluminescence for urban passive cooling and lighting applications: A new approach towards materials' optimization. <i>Energy</i> , 2021, 231, 120815.	4.5	14
138	Subjective thermal response driving indoor comfort perception: A novel experimental analysis coupling building information modelling and virtual reality. <i>Journal of Building Engineering</i> , 2021, 41, 102368.	1.6	14
139	Energy Refurbishment of Historical Buildings with Public Function: Pilot Case Study. <i>Energy Procedia</i> , 2014, 61, 660-663.	1.8	13
140	Mobile measurements of microclimatic variables through the central area of Singapore: An analysis from the pedestrian perspective. <i>Sustainable Cities and Society</i> , 2022, 83, 103986.	5.1	13
141	A Batch Digester Plant for Biogas Production and Energy Enhancement of Organic Residues from Collective Activities. <i>Energy Procedia</i> , 2014, 61, 1669-1672.	1.8	12
142	An Innovative Small Sized Anaerobic Digester Integrated in Historic Building. <i>Energy Procedia</i> , 2014, 45, 333-341.	1.8	12
143	High-albedo roof coatings for reducing building cooling needs. , 2015, , 243-268.		12
144	Lignocellulosic Ethanol Production from the Recovery of Stranded Driftwood Residues. <i>Energies</i> , 2016, 9, 634.	1.6	12

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145	Integrated numerical and experimental methodology for thermal-energy analysis and optimization of heritage museum buildings. <i>Building Services Engineering Research and Technology</i> , 2016, 37, 334-354.	0.9	12
146	Cool, Translucent Natural Envelope: Thermal-optics Characteristics Experimental Assessment and Thermal-energy and Day Lighting Analysis. <i>Energy Procedia</i> , 2017, 111, 578-587.	1.8	12
147	Uses of dynamic simulation to predict thermal-energy performance of buildings and districts: a review. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2018, 7, e269.	1.9	12
148	Greenery System for Cooling Down Outdoor Spaces: Results of an Experimental Study. <i>Sustainability</i> , 2020, 12, 5888.	1.6	12
149	Coupling the transient plane source method with a dynamically controlled environment to study PCM-doped building materials. <i>Energy and Buildings</i> , 2018, 180, 122-134.	3.1	11
150	Durability and weatherability of a styrene-ethylene-butylene-styrene (SEBS) block copolymer-based sensing skin for civil infrastructure applications. <i>Sensors and Actuators A: Physical</i> , 2019, 293, 269-280.	2.0	11
151	Cool, photoluminescent paints towards energy consumption reductions in the built environment. <i>Journal of Physics: Conference Series</i> , 2019, 1343, 012198.	0.3	11
152	Using bio-oils for improving environmental performance of an advanced resinous binder for pavement applications with heat and noise island mitigation potential. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100706.	1.7	11
153	Innovative concretes for low-carbon constructions: a review. <i>International Journal of Low-Carbon Technologies</i> , 2016, , .	1.2	10
154	A Cost-Effective Human-Based Energy-Retrofitting Approach. , 2017, , 219-255.		10
155	A Mobile Vehicle-Based Methodology for Dynamic Microclimate Analysis. <i>International Journal of Environmental Research</i> , 2021, 15, 893-901.	1.1	10
156	Analysis of thermal energy storage tanks and PV panels combinations in different buildings controlled through model predictive control. <i>Energy</i> , 2022, 239, 122201.	4.5	10
157	Network of buildingsâ€™ impact on indoor thermal performance. <i>Smart and Sustainable Built Environment</i> , 2012, 1, 73-86.	2.2	9
158	Natural, bio-based, colored linoleum: Design, preparation, characteristics and preliminary life cycle assessment. <i>Journal of Cleaner Production</i> , 2020, 267, 122202.	4.6	9
159	Wearable sensing techniques to understand pedestrian-level outdoor microclimate affecting heat related risk in urban parks. <i>Solar Energy</i> , 2022, 242, 397-412.	2.9	9
160	Could a bio-resin and transparent pavement improve the urban environment? An in field thermo-optical investigation and life-cycle assessment. <i>Sustainable Cities and Society</i> , 2022, 79, 103597.	5.1	9
161	Combined Effect of Outdoor Microclimate Boundary Conditions on Air Conditioning Systemâ€™s Efficiency and Building Energy Demand in Net Zero Energy Settlements. <i>Sustainability</i> , 2020, 12, 6056.	1.6	8
162	Zero energy concept at neighborhood level: A case study analysis. <i>Solar Energy Advances</i> , 2021, 1, 100002.	1.2	8

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163	Integration of structural performance and human-centric comfort monitoring in historical building information modeling. <i>Automation in Construction</i> , 2022, 138, 104220.	4.8	8
164	Simulating the effect of urban morphology on indoor thermal behavior: An Italian case study. , 2013, , .		7
165	Investigation of the impact of subjective and physical parameters on the indoor comfort of occupants: a case study in central Italy. <i>Energy Procedia</i> , 2017, 126, 131-138.	1.8	7
166	Thermal-energy and Environmental Impact of Cool Clay Tiles for Residential Buildings in Italy. <i>Procedia Engineering</i> , 2015, 118, 530-537.	1.2	6
167	Experimental and Numerical Study on Thermal Performance of New Cool Clay Tiles in Residential Buildings in Europe. <i>Energy Procedia</i> , 2015, 75, 1393-1398.	1.8	6
168	Sustainable New Brick and Thermo-Acoustic Insulation Panel from Mineralization of Stranded Driftwood Residues. <i>Energies</i> , 2016, 9, 619.	1.6	6
169	Driftwood Biomass in Italy: Estimation and Characterization. <i>Sustainability</i> , 2016, 8, 725.	1.6	6
170	Measurement and Verification of Zero Energy Settlements: Lessons Learned from Four Pilot Cases in Europe. <i>Sustainability</i> , 2020, 12, 9783.	1.6	6
171	Data collected by coupling fix and wearable sensors for addressing urban microclimate variability in an historical Italian city. <i>Data in Brief</i> , 2020, 29, 105322.	0.5	6
172	Experimental Winter Monitoring of a Light-Weight Green Roof Assembly for Building Retrofit. <i>Sustainability</i> , 2021, 13, 4604.	1.6	6
173	Integrated energy performance of an innovative translucent photoluminescent building envelope for lighting energy storage. <i>Sustainable Cities and Society</i> , 2021, 75, 103234.	5.1	6
174	Binding Materials for MOF Monolith Shaping Processes: A Review towards Real Life Application. <i>Energies</i> , 2022, 15, 1489.	1.6	6
175	From social science surveys to building energy modeling: Investigating user-building interaction for low-carbon heating solutions in Europe. <i>Energy Reports</i> , 2022, 8, 7188-7199.	2.5	6
176	Effect of optimized photoluminescence on luminous and passive cooling potential: A new combined experimental and numerical approach applied to yellow-emitting glass tiles. <i>Renewable Energy</i> , 2022, 196, 28-39.	4.3	6
177	Simulating the impact of building occupant peer networks on inter-building energy consumption. , 2011, , .		4
178	Smart cool mortar for passive cooling of historical and existing buildings: experimental analysis and dynamic simulation. <i>Energy Procedia</i> , 2017, 134, 536-544.	1.8	4
179	A study on the thermo-optical behaviour of phosphorescent coatings for passive cooling applications. <i>E3S Web of Conferences</i> , 2021, 238, 06002.	0.2	4
180	Strain-sensing smart bricks under dynamic environmental conditions: Experimental investigation and new modeling. <i>Construction and Building Materials</i> , 2022, 336, 127375.	3.2	4

#	ARTICLE	IF	CITATIONS
181	Investigating the Dynamic Thermal Behavior of Building Envelope in Summer Conditions By Means of in-Field Continuous Monitoring. American Journal of Engineering and Applied Sciences, 2016, 9, 505-519.	0.3	3
182	Nanotech-Based Cool Materials for Building Energy Efficiency. , 2016, , 245-278.		3
183	Are years-long field studies about window operation efficient? a data-driven approach based on information theory and deep learning. Energy and Buildings, 2022, 268, 112197.	3.1	3
184	Optic-Energy Performance of Innovative and Traditional Materials for Roof Covering in Commercial Buildings in Central Italy. Advanced Materials Research, 0, 884-885, 685-688.	0.3	2
185	Durability assessment of soft elastomeric capacitor skin for SHM of wind turbine blades. , 2018, , .		2
186	Life cycle assessment of a novel fired smart clay brick monitoring system for masonry buildings. Sustainable Energy Technologies and Assessments, 2022, 50, 101745.	1.7	2
187	Energetic Analysis of Solar-Supplied Processes for Methane, Biogas and Wood Chip Production. Advanced Materials Research, 0, 772, 720-724.	0.3	1
188	Optical Characterization of Translucent Stone Subject to Degradation. Smart Sensors, Measurement and Instrumentation, 2018, , 233-240.	0.4	1
189	Passive cooling by means of adaptive cool materials. , 2021, , 439-457.		1
190	Life Cycle Assessment of an Innovative Technology against Late Frosts in Vineyard. Sustainability, 2021, 13, 5562.	1.6	1
191	ON THE IMPACT OF COOL ROOFS IN ITALIAN RESIDENTIAL BUILDINGS: EXPERIMENTAL ASSESSMENT OF SUMMER AND WINTER PERFORMANCE. , 2012, , .		1
192	The ecological momentary assessment approach and the use of big data to analyse possible effects of urbanisation on mental health. European Psychiatry, 2021, 64, S10-S11.	0.1	1
193	Influence of microclimate boundary conditions in net zero energy settlements on HVAC efficiency. IOP Conference Series: Materials Science and Engineering, 2019, 609, 072046.	0.3	0
194	Effect of thermochromic coatings on the indoor thermal behavior of a case study building. E3S Web of Conferences, 2021, 238, 06003.	0.2	0
195	Cool Materials for Passive Cooling in Buildings. , 2021, , 505-537.		0
196	Existing Buildingsâ€™ Energy Upgrade: An Economical and Environmentally Sustainable Opportunity. CSR, Sustainability, Ethics & Governance, 2013, , 265-280.	0.2	0
197	Passive TES With PCM. , 2022, , 438-452.		0
198	Luminescence for the built environment. , 2022, , 47-69.		0