

Fabrizio Ascione

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.

94 papers	3,290 citations	33 h-index	55 g-index
96 ext. papers	3,842 ext. citations	5.9 avg, IF	5.98 L-index

#	Paper	IF	Citations
94	Energy refurbishment of existing buildings through the use of phase change materials: Energy savings and indoor comfort in the cooling season. <i>Applied Energy</i> , 2014 , 113, 990-1007	10.7	211
93	Green roofs in European climates. Are effective solutions for the energy savings in air-conditioning?. <i>Applied Energy</i> , 2013 , 104, 845-859	10.7	180
92	Energy retrofit of historical buildings: theoretical and experimental investigations for the modelling of reliable performance scenarios. <i>Energy and Buildings</i> , 2011 , 43, 1925-1936	7	150
91	Simulation-based model predictive control by the multi-objective optimization of building energy performance and thermal comfort. <i>Energy and Buildings</i> , 2016 , 111, 131-144	7	134
90	Artificial neural networks to predict energy performance and retrofit scenarios for any member of a building category: A novel approach. <i>Energy</i> , 2017 , 118, 999-1017	7.9	131
89	Earth-to-air heat exchangers for Italian climates. <i>Renewable Energy</i> , 2011 , 36, 2177-2188	8.1	122
88	Optimization of building envelope design for nZEBs in Mediterranean climate: Performance analysis of residential case study. <i>Applied Energy</i> , 2016 , 183, 938-957	10.7	119
87	A new methodology for cost-optimal analysis by means of the multi-objective optimization of building energy performance. <i>Energy and Buildings</i> , 2015 , 88, 78-90	7	116
86	Multi-stage and multi-objective optimization for energy retrofitting a developed hospital reference building: A new approach to assess cost-optimality. <i>Applied Energy</i> , 2016 , 174, 37-68	10.7	114
85	Energy retrofit of an educational building in the ancient center of Benevento. Feasibility study of energy savings and respect of the historical value. <i>Energy and Buildings</i> , 2015 , 95, 172-183	7	109
84	Building envelope design: Multi-objective optimization to minimize energy consumption, global cost and thermal discomfort. Application to different Italian climatic zones. <i>Energy</i> , 2019 , 174, 359-374	7.9	89
83	Energy conservation and renewable technologies for buildings to face the impact of the climate change and minimize the use of cooling. <i>Solar Energy</i> , 2017 , 154, 34-100	6.8	87
82	Energy retrofit of educational buildings: Transient energy simulations, model calibration and multi-objective optimization towards nearly zero-energy performance. <i>Energy and Buildings</i> , 2017 , 144, 303-319	7	81
81	Design of the Building Envelope: A Novel Multi-Objective Approach for the Optimization of Energy Performance and Thermal Comfort. <i>Sustainability</i> , 2015 , 7, 10809-10836	3.6	79
80	Energy saving strategies in air-conditioning for museums. <i>Applied Thermal Engineering</i> , 2009 , 29, 676-686	5.8	71
79	Analysis and diagnosis of the energy performance of buildings and districts: Methodology, validation and development of Urban Energy Maps. <i>Cities</i> , 2013 , 35, 270-283	5.6	69
78	CASA, cost-optimal analysis by multi-objective optimisation and artificial neural networks: A new framework for the robust assessment of cost-optimal energy retrofit, feasible for any building. <i>Energy and Buildings</i> , 2017 , 146, 200-219	7	64

77	Design the refurbishment of historic buildings with the cost-optimal methodology: The case study of a XV century Italian building. <i>Energy and Buildings</i> , 2015 , 99, 162-176	7	57
76	Earth-to-air heat exchanger for NZEB in Mediterranean climate. <i>Renewable Energy</i> , 2016 , 99, 553-563	8.1	56
75	Historical buildings: Multidisciplinary approach to structural/energy diagnosis and performance assessment. <i>Applied Energy</i> , 2017 , 185, 1517-1528	10.7	54
74	Multi-objective optimization of the renewable energy mix for a building. <i>Applied Thermal Engineering</i> , 2016 , 101, 612-621	5.8	54
73	Resilience of robust cost-optimal energy retrofit of buildings to global warming: A multi-stage, multi-objective approach. <i>Energy and Buildings</i> , 2017 , 153, 150-167	7	54
72	A new comprehensive framework for the multi-objective optimization of building energy design: Harlequin. <i>Applied Energy</i> , 2019 , 241, 331-361	10.7	51
71	Rehabilitation of the building envelope of hospitals: Achievable energy savings and microclimatic control on varying the HVAC systems in Mediterranean climates. <i>Energy and Buildings</i> , 2013 , 60, 125-138	7	50
70	Net zero-energy buildings in Germany: Design, model calibration and lessons learned from a case-study in Berlin. <i>Energy and Buildings</i> , 2016 , 133, 688-710	7	48
69	A new comprehensive approach for cost-optimal building design integrated with the multi-objective model predictive control of HVAC systems. <i>Sustainable Cities and Society</i> , 2017 , 31, 136-150	10.1	44
68	A coupled numerical approach on museum air conditioning: Energy and fluid-dynamic analysis. <i>Applied Energy</i> , 2013 , 103, 416-427	10.7	41
67	Different methods for the modelling of thermal bridges into energy simulation programs: Comparisons of accuracy for flat heterogeneous roofs in Italian climates. <i>Applied Energy</i> , 2012 , 97, 405-418	10.7	38
66	Solar gain and building envelope: the surface factor. <i>Building Research and Information</i> , 2010 , 38, 187-204	5.3	37
65	Thermal comfort prediction in a building category: Artificial neural network generation from calibrated models for a social housing stock in southern Europe. <i>Applied Thermal Engineering</i> , 2019 , 150, 492-505	5.8	36
64	Retrofit of villas on Mediterranean coastlines: Pareto optimization with a view to energy-efficiency and cost-effectiveness. <i>Applied Energy</i> , 2019 , 254, 113705	10.7	35
63	Cool materials for reducing summer energy consumptions in Mediterranean climate: In-lab experiments and numerical analysis of a new coating based on acrylic paint. <i>Applied Thermal Engineering</i> , 2016 , 102, 91-107	5.8	35
62	Simplified state space representation for evaluating thermal bridges in building: Modelling, application and validation of a methodology. <i>Applied Thermal Engineering</i> , 2013 , 61, 344-354	5.8	34
61	Experimental validation of a numerical code by thin film heat flux sensors for the resolution of thermal bridges in dynamic conditions. <i>Applied Energy</i> , 2014 , 124, 213-222	10.7	31
60	Dynamic insulation of the building envelope: Numerical modeling under transient conditions and coupling with nocturnal free cooling. <i>Applied Thermal Engineering</i> , 2015 , 84, 1-14	5.8	29

59	A real industrial building: Modeling, calibration and Pareto optimization of energy retrofit. <i>Journal of Building Engineering</i> , 2020 , 29, 101186	5.2	29
58	Combined cooling, heating and power for small urban districts: An Italian case-study. <i>Applied Thermal Engineering</i> , 2014 , 71, 705-713	5.8	28
57	The role of the occupant behavior in affecting the feasibility of energy refurbishment of residential buildings: Typical effective retrofits compromised by typical wrong habits. <i>Energy and Buildings</i> , 2020 , 223, 110217	7	26
56	A framework for NZEB design in Mediterranean climate: Design, building and set-up monitoring of a lab-small villa. <i>Solar Energy</i> , 2019 , 184, 11-29	6.8	25
55	MATRIX, a multi activity test-room for evaluating the energy performances of Building/HVAC systems in Mediterranean climate: Experimental set-up and CFD/BPS numerical modeling. <i>Energy and Buildings</i> , 2016 , 126, 424-446	7	24
54	Microclimatic control in the museum environment: Air diffusion performance. <i>International Journal of Refrigeration</i> , 2010 , 33, 806-814	3.8	23
53	The evolution of building energy retrofit via double-skin and responsive façades: A review. <i>Solar Energy</i> , 2021 , 224, 703-717	6.8	23
52	A Multi-Criteria Approach to Achieve Constrained Cost-Optimal Energy Retrofits of Buildings by Mitigating Climate Change and Urban Overheating. <i>Climate</i> , 2018 , 6, 37	3.1	22
51	Phase Change Materials for Reducing Cooling Energy Demand and Improving Indoor Comfort: A Step-by-Step Retrofit of a Mediterranean Educational Building. <i>Energies</i> , 2019 , 12, 3661	3.1	21
50	Weather-data-based control of space heating operation via multi-objective optimization: Application to Italian residential buildings. <i>Applied Thermal Engineering</i> , 2019 , 163, 114384	5.8	20
49	Predicting the Impact of Climate Change on Thermal Comfort in A Building Category: The Case of Linear-type Social Housing Stock in Southern Spain. <i>Energies</i> , 2019 , 12, 2238	3.1	18
48	The design of safe classrooms of educational buildings for facing contagions and transmission of diseases: A novel approach combining audits, calibrated energy models, building performance (BPS) and computational fluid dynamic (CFD) simulations. <i>Energy and Buildings</i> , 2021 , 230, 110533	7	18
47	Green Walls, a Critical Review: Knowledge Gaps, Design Parameters, Thermal Performances and Multi-Criteria Design Approaches. <i>Energies</i> , 2020 , 13, 2296	3.1	17
46	A Multi-Step Approach to Assess the Lifecycle Economic Impact of Seismic Risk on Optimal Energy Retrofit. <i>Sustainability</i> , 2017 , 9, 989	3.6	17
45	Conceptual design of integrated seismic and energy retrofit interventions. <i>Journal of Building Engineering</i> , 2021 , 38, 102190	5.2	16
44	Experimental investigation and numerical evaluation of adoption of multi-layered wall with vacuum insulation panel for typical Mediterranean climate. <i>Energy and Buildings</i> , 2017 , 152, 108-123	7	14
43	Design and performance analysis of a zero-energy settlement in Greece. <i>International Journal of Low-Carbon Technologies</i> , 2017 , 12, 141-161	2.8	14
42	Addressing Large-Scale Energy Retrofit of a Building Stock via Representative Building Samples: Public and Private Perspectives. <i>Sustainability</i> , 2017 , 9, 940	3.6	14

41	Concept, Design and Energy Performance of a Net Zero-Energy Building in Mediterranean Climate. <i>Procedia Engineering</i> , 2016 , 169, 26-37		14
40	NZEB target for existing buildings: case study of historical educational building in Mediterranean climate. <i>Energy Procedia</i> , 2017 , 140, 194-206	2.3	13
39	Is it fundamental to model the inter-building effect for reliable building energy simulations? Interaction with shading systems. <i>Building and Environment</i> , 2020 , 183, 107161	6.5	13
38	Hourly operational assessment of HVAC systems in Mediterranean Nearly Zero-Energy Buildings: Experimental evaluation of the potential of ground cooling of ventilation air. <i>Renewable Energy</i> , 2020 , 155, 950-968	8.1	12
37	Methodology of the cost-optimality for improving the indoor thermal environment during the warm season. Presentation of the method and application to a new multi-storey building in Berlin. <i>Applied Energy</i> , 2017 , 185, 1529-1541	10.7	11
36	Experimental and numerical evaluations on the energy penalty of reflective roofs during the heating season for Mediterranean climate. <i>Energy</i> , 2018 , 144, 178-199	7.9	11
35	Knowledge and energy retrofitting of neighborhoods and districts. A comprehensive approach coupling geographical information systems, building simulations and optimization engines. <i>Energy Conversion and Management</i> , 2021 , 230, 113786	10.6	10
34	Villas on Islands: cost-effective energy refurbishment in Mediterranean coastline houses. <i>Energy Procedia</i> , 2019 , 159, 192-200	2.3	9
33	Summer Overheating in a New Multi-storey Building in Berlin: Numerical Study for Improving the Indoor Microclimate. <i>Energy Procedia</i> , 2015 , 75, 1305-1314	2.3	9
32	Energy refurbishment of a University building in cold Italian backcountry. Part 2: Sensitivity studies and optimization. <i>Energy Procedia</i> , 2019 , 159, 10-15	2.3	8
31	Energy refurbishment of a University building in cold Italian backcountry. Part 1: Audit and calibration of the numerical model. <i>Energy Procedia</i> , 2019 , 159, 2-9	2.3	7
30	Light and Heavy Energy Refurbishments of Mediterranean Offices. Part II: Cost-optimal Energy Renovation of an Institutional Building. <i>Procedia Engineering</i> , 2017 , 180, 1518-1530		7
29	A Novel Contribution for Resilient Buildings. Theoretical Fragility Curves: Interaction between Energy and Structural Behavior for Reinforced Concrete Buildings. <i>Buildings</i> , 2020 , 10, 194	3.2	6
28	Energy Performance of Cool-colors and Roofing Coatings in Reducing the Free Solar Gains during the Heating Season: Results of an In-Field Investigation. <i>Procedia Engineering</i> , 2016 , 169, 375-383		6
27	Nearly zero energy target and indoor comfort in Mediterranean climate: Discussion based on monitoring data for a real case study. <i>Sustainable Cities and Society</i> , 2020 , 61, 102349	10.1	5
26	Mitigating the cooling need and improvement of indoor conditions in Mediterranean educational buildings, by means of green roofs. Results of a case study. <i>Journal of Physics: Conference Series</i> , 2015 , 655, 012027	0.3	5
25	Evaluation and optimization of the performance of the heating system in a nZEB educational building by monitoring and simulation. <i>Energy and Buildings</i> , 2021 , 231, 110616	7	5
24	Comprehensive analysis to drive the energy retrofit of a neighborhood by optimizing the solar energy exploitation An Italian case study. <i>Journal of Cleaner Production</i> , 2021 , 314, 127998	10.3	5

23	Conceptualization, development and validation of EMAR: A user-friendly tool for accurate energy simulations of residential buildings via few numerical inputs. <i>Journal of Building Engineering</i> , 2021 , 44, 102647	5.2	5
22	Multidisciplinary Approach to Structural/Energy Diagnosis of Historical Buildings: A Case Study. <i>Energy Procedia</i> , 2015 , 75, 1325-1334	2.3	4
21	Prescriptive- and Performance-based Approaches of the Present and Previous German DIN 4108-2. Hourly Energy Simulation for Comparing the Effectiveness of the Methods. <i>Energy Procedia</i> , 2015 , 75, 1315-1324	2.3	4
20	Transient heat transfer through walls and thermal bridges. Numerical modelling: Methodology and validation 2012 ,		4
19	Analysis of monitoring data for a nZEB in Mediterranean climate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 072038	0.4	4
18	Effects of global warming on energy retrofit planning of neighborhoods under stochastic human behavior. <i>Energy and Buildings</i> , 2021 , 250, 111306	7	4
17	Energy Audit of Health Care Facilities: Dynamic Simulation of Energy Performances and Energy-Oriented Refurbishment of System and Equipment for Microclimatic Control. <i>American Journal of Engineering and Applied Sciences</i> , 2016 , 9, 814-834	0.4	3
16	Building Envelope, HVAC Systems and RESs for the Energy Retrofit of a Conference Hall on Naples Promenade. <i>Energy Procedia</i> , 2015 , 75, 1261-1268	2.3	3
15	A Methodology to Assess and Improve the Impact of Public Energy Policies for Retrofitting the Building Stock: Application to Italian Office Buildings. <i>International Journal of Heat and Technology</i> , 2016 , 34, S277-S286	2.2	3
14	Optimization of solar energy exploitation for a neighborhood towards nearly zero energy buildings 2020 ,		3
13	Air conditioning systems for school buildings: a case study. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2016 , 169, 52-78	0.7	2
12	Light and Heavy Energy Refurbishments of Mediterranean Offices. Part I: Energy Audit of an Institutional Building on the Naples Coast. <i>Procedia Engineering</i> , 2017 , 180, 1506-1517		2
11	Thermal Dynamic Insulation: Numerical Modeling in a Transient Regime and Application to Alternative Aviary Houses. <i>Energy Procedia</i> , 2015 , 75, 1711-1721	2.3	2
10	A methodology to assess and improve the impact of public energy policies for retrofitting the building stock: application to Italian office buildings. <i>International Journal of Heat and Technology</i> , 2016 , 34, S277-S286	2.2	2
9	Energy assessment in town planning: urban energy maps 2012 ,		2
8	Cost-Effective Energy Refurbishment of Health Care Facilities in Heating Dominated Climates of Italian Backcountry. The Case Study of the Hospital Veneziale of Isernia. <i>American Journal of Engineering and Applied Sciences</i> , 2017 , 10, 756-768	0.4	1
7	Energy Performance of Buildings: improvements, limits and future perspectives during the last twenty years of energy and sustainability policies 2021 ,		1
6	Building heating demand vs climate: Deep insights to achieve a novel heating stress index and climatic stress curves. <i>Journal of Cleaner Production</i> , 2021 , 296, 126616	10.3	1

5	Development of an analytical model to investigate the effects of the extraflux versus the sky and the ground and optimization of the radiative characteristics of a thermochromic paint for a typical Italian location 2019 ,		1
4	Are transparent double-skin facades effective for energy retrofit? Answers for an office building - with and without photovoltaic integration. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 257-271	1.6	1
3	Thermal and energy performance of a nearly zero-energy building in Mediterranean climate: the gap between designed and monitored loads of space heating and cooling systems. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 732-747	1.6	1
2	Resilience to the climate change of nearly zero energy-building designed according to the EPBD recast: Monitoring, calibrated energy models and perspective simulations of a Mediterranean nZEB living lab. <i>Energy and Buildings</i> , 2022 , 262, 112004	7	1
1	5.21 Energy Management in Hospitals 2018 , 827-854		0