

Antonio Gagliano

List of Publications by Year in descending order

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117
papers

2,345
citations

218677

26
h-index

243625

44
g-index

117
all docs

117
docs citations

117
times ranked

2158
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive study on green roof performance for retrofitting existing buildings. <i>Building and Environment</i> , 2018, 136, 227-239.	6.9	136
2	The evapotranspiration process in green roofs: A review. <i>Building and Environment</i> , 2019, 147, 337-355.	6.9	130
3	A multi-criteria methodology for comparing the energy and environmental behavior of cool, green and traditional roofs. <i>Building and Environment</i> , 2015, 90, 71-81.	6.9	117
4	Environmental impacts and thermal insulation performance of innovative composite solutions for building applications. <i>Construction and Building Materials</i> , 2014, 55, 406-414.	7.2	111
5	Assessment of the dynamic thermal performance of massive buildings. <i>Energy and Buildings</i> , 2014, 72, 361-370.	6.7	96
6	Thermal performance of ventilated roofs during summer period. <i>Energy and Buildings</i> , 2012, 49, 611-618.	6.7	91
7	Comparative assessments of the performances of PV/T and conventional solar plants. <i>Journal of Cleaner Production</i> , 2019, 219, 304-315.	9.3	82
8	Development of an Equilibrium-based Model of Gasification of Biomass by Aspen Plus. <i>Energy Procedia</i> , 2017, 111, 1010-1019.	1.8	78
9	Thermofluid-dynamic analysis of ventilated facades. <i>Energy and Buildings</i> , 2010, 42, 1148-1155.	6.7	76
10	Thermodynamic analysis of ventilated facades under different wind conditions in summer period. <i>Energy and Buildings</i> , 2016, 122, 131-139.	6.7	66
11	An assessment study of evaporation rate models on a water basin with floating photovoltaic plants. <i>International Journal of Energy Research</i> , 2021, 45, 167-188.	4.5	58
12	UHI effects and strategies to improve outdoor thermal comfort in dense and old neighbourhoods. <i>Energy Procedia</i> , 2017, 134, 692-701.	1.8	51
13	Assessment of micro-wind turbines performance in the urban environments: an aided methodology through geographical information systems. <i>International Journal of Energy and Environmental Engineering</i> , 2013, 4, 43.	2.5	45
14	Analysis of the energy performance of an Opaque Ventilated Façade under winter and summer weather conditions. <i>Solar Energy</i> , 2020, 205, 531-544.	6.1	42
15	The adoption of green roofs for the retrofitting of existing buildings in the Mediterranean climate. <i>International Journal of Sustainable Building Technology and Urban Development</i> , 2016, 7, 116-129.	1.0	41
16	Description and performance analysis of a flexible photovoltaic/thermal (PV/T) solar system. <i>Renewable Energy</i> , 2019, 137, 144-156.	8.9	41
17	Synergic effects of thermal mass and natural ventilation on the thermal behaviour of traditional massive buildings. <i>International Journal of Sustainable Energy</i> , 2016, 35, 411-428.	2.4	40
18	A robust numerical model for characterizing the syngas composition in a downdraft gasification process. <i>Comptes Rendus Chimie</i> , 2016, 19, 441-449.	0.5	37

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19	Analysis of the performance of a building solar thermal facade (BSTF) for domestic hot water production. <i>Renewable Energy</i> , 2019, 142, 511-526.	8.9	35
20	Numerical model and experimental validation of the electrical and thermal performances of photovoltaic/thermal plant. <i>Energy Conversion and Management</i> , 2020, 220, 112939.	9.2	35
21	Assessment of the electrical and thermal performances of building integrated bifacial photovoltaic modules. <i>Journal of Cleaner Production</i> , 2021, 313, 127906.	9.3	35
22	Energy and New Economic Approach for Nearly Zero Energy Hotels. <i>Entropy</i> , 2019, 21, 639.	2.2	34
23	The Retrofit of Existing Buildings Through the Exploitation of the Green Roofs – A Simulation Study. <i>Energy Procedia</i> , 2014, 62, 52-61.	1.8	33
24	Electrical and Thermal Performances of Bi-Fluid PV/Thermal Collectors. <i>Energies</i> , 2021, 14, 1633.	3.1	28
25	Analysis of the performances of a building-integrated PV/Thermal system. <i>Journal of Cleaner Production</i> , 2021, 320, 128876.	9.3	28
26	Proper evaluation of the external convective heat transfer for the thermal analysis of cool roofs. <i>Energy and Buildings</i> , 2014, 77, 467-477.	6.7	27
27	Thermal performance assessment of extensive green roofs investigating realistic vegetation-substrate configurations. <i>Building Simulation</i> , 2019, 12, 379-393.	5.6	27
28	Sustainable Urban Greening and Cooling Strategies for Thermal Comfort at Pedestrian Level. <i>Sustainability</i> , 2021, 13, 3138.	3.2	27
29	Enhanced models for the evaluation of electrical efficiency of PV/T modules. <i>Solar Energy</i> , 2021, 224, 531-544.	6.1	27
30	Energy performance and environmental and economic assessment of the platform frame system with compressed straw. <i>Energy and Buildings</i> , 2018, 166, 83-92.	6.7	25
31	Multilayer Thermal Model for Evaluating the Performances of Monofacial and Bifacial Photovoltaic Modules. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1035-1043.	2.5	24
32	Performance assessment of a solar assisted desiccant cooling system. <i>Thermal Science</i> , 2014, 18, 563-576.	1.1	23
33	Thermal Behavior of an Extensive Green Roof: Numerical Simulations and Experimental Investigations. <i>International Journal of Heat and Technology</i> , 2016, 34, S226-S234.	0.6	23
34	Geographical Information System as Support Tool for Sustainable Energy Action Plan. <i>Energy Procedia</i> , 2015, 83, 310-319.	1.8	22
35	Optimal management of various renewable energy sources by a new forecasting method. , 2012, ,		20
36	Study on the Application of Cool Paintings for the Passive Cooling of Existing Buildings in Mediterranean Climates. <i>Advances in Mechanical Engineering</i> , 2013, 5, 413675.	1.6	20

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37	Technical and Economic Perspective for Repowering of Micro Hydro Power Plants: A Case Study of an Early XX Century Power Plant. <i>Energy Procedia</i> , 2014, 62, 512-521.	1.8	20
38	A miniaturized silicon based device for nucleic acids electrochemical detection. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 90-94.	4.2	19
39	Thermal and Economic Analysis of Renovation Strategies for a Historic Building in Mediterranean Area. <i>Buildings</i> , 2017, 7, 60.	3.1	19
40	Performances and economic analysis of small photovoltaic electricity energy storage system for residential applications. <i>Energy and Environment</i> , 2020, 31, 155-175.	4.6	19
41	Energy efficient measure to upgrade a multistory residential in a nZEB. <i>AIMS Energy</i> , 2017, 5, 601-624.	1.9	19
42	A Case Study of Energy Efficiency Retrofit in Social Housing Units. <i>Energy Procedia</i> , 2013, 42, 289-298.	1.8	18
43	Intelligent sun-tracking system based on multiple photodiode sensors for maximisation of photovoltaic energy production. <i>Mathematics and Computers in Simulation</i> , 2013, 91, 16-28.	4.4	18
44	Laboratory and In-Situ Measurements for Thermal and Acoustic Performance of Straw Bales. <i>Sustainability</i> , 2019, 11, 5592.	3.2	18
45	GIS-Based Decision Support for Solar Photovoltaic Planning in Urban Environment. <i>Smart Innovation, Systems and Technologies</i> , 2013, , 865-874.	0.6	18
46	Analysis of the performances of electric energy storage in residential applications. <i>International Journal of Heat and Technology</i> , 2017, 35, S41-S48.	0.6	18
47	Photovoltaic Glazing: Analysis of Thermal Behavior and Indoor Comfort. <i>Energy Procedia</i> , 2013, 42, 367-376.	1.8	17
48	Application of a Mapping tool to Plan Energy Saving at a Neighborhood Scale. <i>Energy Procedia</i> , 2016, 101, 137-144.	1.8	17
49	A Proposed Methodology for Estimating the Performance of Small Wind Turbines in Urban Areas. <i>Smart Innovation, Systems and Technologies</i> , 2012, , 539-548.	0.6	16
50	Monitoring of solar cogenerative PVT power plants: Overview and a practical example. <i>Sustainable Energy Technologies and Assessments</i> , 2015, 10, 90-101.	2.7	15
51	Computational Fluid Dynamics Analysis for Evaluating the Urban Heat Island Effects. <i>Energy Procedia</i> , 2017, 134, 508-517.	1.8	14
52	EVALUATION OF THE PERFORMANCE OF A SMALL BIOMASS GASIFIER AND MICRO-CHP PLANT FOR AGRO-INDUSTRIAL FIRMS. <i>International Journal of Heat and Technology</i> , 2015, 33, 145-154.	0.6	14
53	Controlled mechanical ventilation systems in residential buildings: Primary energy balances and financial issues. <i>Journal of Building Engineering</i> , 2017, 11, 96-107.	3.4	13
54	Kinetic of the Pyrolysis Process of Peach and Apricot Pits by TGA and DTGA Analysis. <i>International Journal of Heat and Technology</i> , 2016, 34, S553-S560.	0.6	12

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55	A Methodology for an Integrated Approach for Seismic and Energy Refurbishment of Historic Buildings in Mediterranean Area. <i>Sustainability</i> , 2018, 10, 2448.	3.2	11
56	Numerical Simulations of a PV Module with Phase Change Material (PV-PCM) under Variable Weather Conditions. <i>International Journal of Heat and Technology</i> , 2021, 39, 643-652.	0.6	11
57	Deploy Energy-efficient Technologies in the Restoration of a Traditional Building in the Historical Center of Catania (Italy). <i>Energy Procedia</i> , 2014, 62, 62-71.	1.8	10
58	Thermophysical characterization of a cardboard emergency kit-house. <i>Mathematical Modelling of Engineering Problems</i> , 2018, 5, 168-174.	0.5	10
59	Thermal comfort in operating rooms: a case study. , 2011, , .		9
60	An improved multi-layer thermal model for photovoltaic modules. , 2016, , .		8
61	Full Efficiency Recovery in Hole-Transporting Layer-Free Perovskite Solar Cells With Free-Standing Dry-Carbon Top-Contacts. <i>Frontiers in Chemistry</i> , 2020, 8, 200.	3.6	8
62	Thermo-mechanical Characterization of Insulating Bio-plasters Containing Recycled Volcanic Pyroclasts. <i>Open Civil Engineering Journal</i> , 2020, 14, 66-77.	0.8	8
63	Effectiveness and constraints of using PV/Thermal collectors for heat-driven chillers. <i>Applied Thermal Engineering</i> , 2022, 210, 118330.	6.0	8
64	Thermo-hygrometric behaviour of Roman thermal buildings: the "Indirizzo" Baths of Catania (Sicily). <i>Energy and Buildings</i> , 2017, 138, 704-715.	6.7	7
65	Improved Electrical and Structural Stability in HTL-Free Perovskite Solar Cells by Vacuum Curing Treatment. <i>Energies</i> , 2020, 13, 3953.	3.1	7
66	Modeling and performances assessments of PV/T bifluid hybrid collector: Three cooling modes operation case. , 2020, , .		7
67	Energy Analysis of Ventilated Roof. <i>Smart Innovation, Systems and Technologies</i> , 2011, , 15-23.	0.6	6
68	Influence of Natural Ventilation on the Thermal Behavior of a Massive Building. <i>Energy Procedia</i> , 2015, 78, 1287-1292.	1.8	6
69	Effectiveness of thermodynamic adaptative equilibrium models for modeling the pyrolysis process. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 27, 74-82.	2.7	6
70	SLICE: An Innovative Photovoltaic Solution for Adaptive Envelope Prototyping and Testing in a Relevant Environment. <i>Sustainability</i> , 2021, 13, 8701.	3.2	6
71	Acoustic Quality of a Tensile Membrane Structure Used as a Lecture Hall, and Proposals for its Improvement. <i>Building Acoustics</i> , 2014, 21, 287-304.	1.9	5
72	A geographic information method for managing urban energy use. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2017, 170, 19-32.	0.7	5

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73	Simulation Models of Biomass Thermochemical Conversion Processes, Gasification and Pyrolysis, for the Prediction of the Energetic Potential. , 2018, , 39-85.		5
74	Energy analysis of a micro-cogeneration unit fed by biogas as a function of pyrolysis operating parameters. Comptes Rendus Chimie, 2021, 24, 39-55.	0.5	5
75	Analysis of the Energy Produced and Energy Quality of Nanofluid Impact on Photovoltaic-Thermal Systems. Lecture Notes in Electrical Engineering, 2021, , 739-745.	0.4	5
76	The Kyoto Rotation Fund as a policy tool for climate change mitigation: The case study of an Italian school. International Journal of Heat and Technology, 2017, 35, S159-S165.	0.6	5
77	A novel building ventilated facade with integrated bifacial photovoltaic modules: analysis of the electrical and thermal performances. , 2020, , .		5
78	Energy analysis of hybrid solar thermal plants (PV/T). , 2021, , 45-90.		4
79	Analysis of acoustic climate on board public transport. WIT Transactions on Biomedicine and Health, 2013, , .	0.0	4
80	A procedure for the characterization of the solar-weighted reflectance of mirrored reflectors. , 2014, , .		3
81	Cool Roofs with Variable Thermal Insulation: UHI Mitigation and Energy Savings for Several Italian Cities. Smart Innovation, Systems and Technologies, 2020, , 481-492.	0.6	3
82	Thermal comfort analysis of public transport passengers in Catania. WIT Transactions on Ecology and the Environment, 2012, , .	0.0	3
83	Are subsidies for thermally-driven solar-assisted cooling systems consistent? A critical investigation for Southern Italy. Energy Reports, 2022, 8, 7751-7763.	5.1	3
84	Design solutions for reducing the energy needs of residential buildings. , 2015, , .		2
85	Effect of glazing type on the performance of a Trombe wall in Tunisia. , 2015, , .		2
86	Application of a Geographical Information System to Plan Energy Policy at a Neighborhood Scale. , 2018, , .		2
87	Modeling of Dust Deposition Impact on PV/T Hybrid Collector Performances. , 2019, , .		2
88	Effectiveness of VIPs and PCMs on the energy performance and thermal comfort in buildings. , 2020, , .		2
89	Assessment of the Green Roofs Thermal Dynamic Behavior for Increasing the Building Energy Efficiencies. Smart Innovation, Systems and Technologies, 2017, , 37-59.	0.6	2
90	Energy Balances and Payback Time for Controlled Mechanical Ventilation in Residential Buildings. International Journal of Heat and Technology, 2016, 34, S315-S322.	0.6	2

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91	Innovative Multidisciplinary Methodology for the Analysis of Traditional Marginal Architecture. Sustainability, 2020, 12, 1285.	3.2	2
92	Evaluation of the Urban Microclimate in Catania using Multispectral Remote Sensing and GIS Technology. Climate, 2022, 10, 18.	2.8	2
93	Proposals and Analysis of the Effects of Acoustic Corrections in a Modern Church. Building Acoustics, 2015, 22, 143-161.	1.9	1
94	A numerical model to characterize the producer gas composition by the pyrolysis process. , 2016, , .		1
95	Air quality in street canyons: a case study. WIT Transactions on Ecology and the Environment, 2009, , .	0.0	1
96	The environmental impact of urban transport: a case study for a new road in Catania province. WIT Transactions on the Built Environment, 2007, , .	0.0	1
97	A Neural Network model for the estimation of bioclimatic indexes. WIT Transactions on Ecology and the Environment, 2010, , .	0.0	1
98	The Noise Pollution in Nature Protected Area of the Pergusa Lake. International Journal of Design and Nature and Ecodynamics, 2011, 6, 52-67.	0.5	1
99	The Dynamic Lighting Into The Working Environment. International Journal of Design and Nature and Ecodynamics, 2012, 7, 394-408.	0.5	1
100	Mitigation of environmental noise in urban streets through lightweight transparent screens. Noise Mapping, 2020, 7, 57-73.	1.8	1
101	Study and Modeling of Energy Performance of PV/T Solar Plant for Hydrogen Production. Lecture Notes in Electrical Engineering, 2021, , 879-891.	0.4	1
102	An experience of "renewable energy" intended as energetic save. Renewable Energy, 1994, 5, 1534-1537.	8.9	0
103	Analysis and Acoustic Correction of a Contemporary Italian Church. Energy Procedia, 2015, 78, 1623-1628.	1.8	0
104	Slow pyrolysis kinetics of apricots stones by Thermogravimetric Analysis. , 2016, , .		0
105	The influence of constructional features and of buildings on indoor Rn entry: experimental research in Catania city (Italy). , 2003, , .		0
106	An applied research to forecast the trend of air pollution in particular geometries of streets: the real case of urban canyon. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	0
107	Experimental research about gaseous emissions coming from multi-floor parks: a real case in Taormina (Italy). WIT Transactions on the Built Environment, 2006, , .	0.0	0
108	Clean energy saving: applied research into Etna's water supply systems in Catania, Italy. WIT Transactions on Ecology and the Environment, 2007, , .	0.0	0

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109	The case of atmospheric pollution using production waste in a building materials factory: an applied industrial case. WIT Transactions on Biomedicine and Health, 2007, , .	0.0	0
110	The application of GIS to air quality analysis in Enna City (Italy). , 2009, , .		0
111	The dynamic lighting technique in indoor architecture. , 2011, , .		0
112	The pollution of water resources and interventions to mitigate and control environmental impact. WIT Transactions on Ecology and the Environment, 2011, , .	0.0	0
113	The increase of carbon dioxide in the atmosphere and its possible negative effects on the biosphere and mankind. , 2014, , .		0
114	Control of the concentration of Radon in the air of the underground tunnels of Sidra Ltd. (applied) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
115	Energy balances and payback time for controlled mechanical ventilation in residential buildings. International Journal of Heat and Technology, 2016, 34, S315-S322.	0.6	0
116	Sustainable Housing Units for Emergency: Innovative Materials and Construction Techniques. Smart Innovation, Systems and Technologies, 2021, , 407-417.	0.6	0
117	Remote sensing to analyse Urban Heating Island. A case study from Catania (Sicily). AIP Conference Proceedings, 2022, , .	0.4	0