

# 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	Evaluation of the Urban Microclimate in Catania using Multispectral Remote Sensing and GIS Technology. <i>Climate</i> , 2022, 10, 18.	2.8	2
2	Remote sensing to analyse Urban Heating Island. A case study from Catania (Sicily). <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
3	Effectiveness and constraints of using PV/Thermal collectors for heat-driven chillers. <i>Applied Thermal Engineering</i> , 2022, 210, 118330.	6.0	8
4	Are subsidies for thermally-driven solar-assisted cooling systems consistent? A critical investigation for Southern Italy. <i>Energy Reports</i> , 2022, 8, 7751-7763.	5.1	3
5	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
6	Sustainable Urban Greening and Cooling Strategies for Thermal Comfort at Pedestrian Level. <i>Sustainability</i> , 2021, 13, 3138.	3.2	27
7	Electrical and Thermal Performances of Bi-Fluid PV/Thermal Collectors. <i>Energies</i> , 2021, 14, 1633.	3.1	28
8	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
9	Energy analysis of a micro-cogeneration unit fed by biogas as a function of pyrolysis operating parameters. <i>Comptes Rendus Chimie</i> , 2021, 24, 39-55.	0.5	5
10	SLICE: An Innovative Photovoltaic Solution for Adaptive Envelope Prototyping and Testing in a Relevant Environment. <i>Sustainability</i> , 2021, 13, 8701.	3.2	6
11	Enhanced models for the evaluation of electrical efficiency of PV/T modules. <i>Solar Energy</i> , 2021, 224, 531-544.	6.1	27
12	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
13	Analysis of the performances of a building-integrated PV/Thermal system. <i>Journal of Cleaner Production</i> , 2021, 320, 128876.	9.3	28
14	Energy analysis of hybrid solar thermal plants (PV/T). , 2021, , 45-90.		4
15	Analysis of the Energy Produced and Energy Quality of Nanofluid Impact on Photovoltaic-Thermal Systems. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 739-745.	0.4	5
16	Study and Modeling of Energy Performance of PV/T Solar Plant for Hydrogen Production. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 879-891.	0.4	1
17	Sustainable Housing Units for Emergency: Innovative Materials and Construction Techniques. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 407-417.	0.6	0
18	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

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19	Effectiveness of VIPs and PCMs on the energy performance and thermal comfort in buildings. , 2020, , .		2
20	Improved Electrical and Structural Stability in HTL-Free Perovskite Solar Cells by Vacuum Curing Treatment. <i>Energies</i> , 2020, 13, 3953.	3.1	7
21	Modeling and performances assessments of PV/T bifluid hybrid collector: Three cooling modes operation case. , 2020, , .		7
22	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
23	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
24	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
25	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
26	Cool Roofs with Variable Thermal Insulation: UHI Mitigation and Energy Savings for Several Italian Cities. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 481-492.	0.6	3
27	A novel building ventilated façade with integrated bifacial photovoltaic modules: analysis of the electrical and thermal performances. , 2020, , .		5
28	Innovative Multidisciplinary Methodology for the Analysis of Traditional Marginal Architecture. <i>Sustainability</i> , 2020, 12, 1285.	3.2	2
29	Mitigation of environmental noise in urban streets through lightweight transparent screens. <i>Noise Mapping</i> , 2020, 7, 57-73.	1.8	1
30	Thermo-mechanical Characterization of Insulating Bio-plasters Containing Recycled Volcanic Pyroclasts. <i>Open Civil Engineering Journal</i> , 2020, 14, 66-77.	0.8	8
31	Description and performance analysis of a flexible photovoltaic/thermal (PV/T) solar system. <i>Renewable Energy</i> , 2019, 137, 144-156.	8.9	41
32	Energy and New Economic Approach for Nearly Zero Energy Hotels. <i>Entropy</i> , 2019, 21, 639.	2.2	34
33	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
34	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
35	Laboratory and In-Situ Measurements for Thermal and Acoustic Performance of Straw Bales. <i>Sustainability</i> , 2019, 11, 5592.	3.2	18
36	Modeling of Dust Deposition Impact on PV/T Hybrid Collector Performances. , 2019, , .		2

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37	Thermal performance assessment of extensive green roofs investigating realistic vegetation-substrate configurations. <i>Building Simulation</i> , 2019, 12, 379-393.	5.6	27
38	The evapotranspiration process in green roofs: A review. <i>Building and Environment</i> , 2019, 147, 337-355.	6.9	130
39	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
40	A comprehensive study on green roof performance for retrofitting existing buildings. <i>Building and Environment</i> , 2018, 136, 227-239.	6.9	136
41	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
42	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
43	Application of a Geographical Information System to Plan Energy Policy at a Neighborhood Scale. , 2018, , .		2
44	Simulation Models of Biomass Thermochemical Conversion Processes, Gasification and Pyrolysis, for the Prediction of the Energetic Potential. , 2018, , 39-85.		5
45	Thermophysical characterization of a cardboard emergency kit-house. <i>Mathematical Modelling of Engineering Problems</i> , 2018, 5, 168-174.	0.5	10
46	Development of an Equilibrium-based Model of Gasification of Biomass by Aspen Plus. <i>Energy Procedia</i> , 2017, 111, 1010-1019.	1.8	78
47	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
48	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
49	Computational Fluid Dynamics Analysis for Evaluating the Urban Heat Island Effects. <i>Energy Procedia</i> , 2017, 134, 508-517.	1.8	14
50	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
51	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
52	Thermal and Economic Analysis of Renovation Strategies for a Historic Building in Mediterranean Area. <i>Buildings</i> , 2017, 7, 60.	3.1	19
53	Assessment of the Green Roofs Thermal Dynamic Behavior for Increasing the Building Energy Efficiencies. <i>Smart Innovation, Systems and Technologies</i> , 2017, , 37-59.	0.6	2
54	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

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55	The Kyoto Rotation Fund as a policy tool for climate change mitigation: The case study of an Italian school. <i>International Journal of Heat and Technology</i> , 2017, 35, S159-S165.	0.6	5
56	Energy efficient measure to upgrade a multistory residential in a nZEB. <i>AIMS Energy</i> , 2017, 5, 601-624.	1.9	19
57	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
58	Application of a Mapping tool to Plan Energy Saving at a Neighborhood Scale. <i>Energy Procedia</i> , 2016, 101, 137-144.	1.8	17
59	Thermodynamic analysis of ventilated façades under different wind conditions in summer period. <i>Energy and Buildings</i> , 2016, 122, 131-139.	6.7	66
60	An improved multi-layer thermal model for photovoltaic modules. , 2016, , .		8
61	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
62	Slow pyrolysis kinetics of apricots stones by Thermogravimetric Analysis. , 2016, , .		0
63	A numerical model to characterize the producer gas composition by the pyrolysis process. , 2016, , .		1
64	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
65	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
66	Energy Balances and Payback Time for Controlled Mechanical Ventilation in Residential Buildings. <i>International Journal of Heat and Technology</i> , 2016, 34, S315-S322.	0.6	2
67	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
68	Energy balances and payback time for controlled mechanical ventilation in residential buildings. <i>International Journal of Heat and Technology</i> , 2016, 34, S315-S322.	0.6	0
69	A miniaturized silicon based device for nucleic acids electrochemical detection. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 90-94.	4.2	19
70	Analysis and Acoustic Correction of a Contemporary Italian Church. <i>Energy Procedia</i> , 2015, 78, 1623-1628.	1.8	0
71	Geographical Information System as Support Tool for Sustainable Energy Action Plan. <i>Energy Procedia</i> , 2015, 83, 310-319.	1.8	22
72	Influence of Natural Ventilation on the Thermal Behavior of a Massive Building. <i>Energy Procedia</i> , 2015, 78, 1287-1292.	1.8	6

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73	Proposals and Analysis of the Effects of Acoustic Corrections in a Modern Church. Building Acoustics, 2015, 22, 143-161.	1.9	1
74	Monitoring of solar cogenerative PVT power plants: Overview and a practical example. Sustainable Energy Technologies and Assessments, 2015, 10, 90-101.	2.7	15
75	A multi-criteria methodology for comparing the energy and environmental behavior of cool, green and traditional roofs. Building and Environment, 2015, 90, 71-81.	6.9	117
76	Design solutions for reducing the energy needs of residential buildings. , 2015, , .		2
77	Effect of glazing type on the performance of a Trombe wall in Tunisia. , 2015, , .		2
78	EVALUATION OF THE PERFORMANCE OF A SMALL BIOMASS GASIFIER AND MICRO-CHP PLANT FOR AGRO-INDUSTRIAL FIRMS. International Journal of Heat and Technology, 2015, 33, 145-154.	0.6	14
79	Control of the concentration of Radon in the air of the underground tunnels of Sidra Ltd. (applied) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlook	0.0	
80	The Retrofit of Existing Buildings Through the Exploitation of the Green Roofs â€“ A Simulation Study. Energy Procedia, 2014, 62, 52-61.	1.8	33
81	Performance assessment of a solar assisted desiccant cooling system. Thermal Science, 2014, 18, 563-576.	1.1	23
82	Deploy Energy-efficient Technologies in the Restoration of a Traditional Building in the Historical Center of Catania (Italy). Energy Procedia, 2014, 62, 62-71.	1.8	10
83	Technical and Economic Perspective for Repowering of Micro Hydro Power Plants: A Case Study of an Early XX Century Power Plant. Energy Procedia, 2014, 62, 512-521.	1.8	20
84	Assessment of the dynamic thermal performance of massive buildings. Energy and Buildings, 2014, 72, 361-370.	6.7	96
85	A procedure for the characterization of the solar-weighted reflectance of mirrored reflectors. , 2014, , .		3
86	Proper evaluation of the external convective heat transfer for the thermal analysis of cool roofs. Energy and Buildings, 2014, 77, 467-477.	6.7	27
87	Environmental impacts and thermal insulation performance of innovative composite solutions for building applications. Construction and Building Materials, 2014, 55, 406-414.	7.2	111
88	Acoustic Quality of a Tensile Membrane Structure Used as a Lecture Hall, and Proposals for its Improvement. Building Acoustics, 2014, 21, 287-304.	1.9	5
89	The increase of carbon dioxide in the atmosphere and its possible negative effects on the biosphere and mankind. , 2014, , .		0
90	Photovoltaic Glazing: Analysis of Thermal Behavior and Indoor Comfort. Energy Procedia, 2013, 42, 367-376.	1.8	17

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91	A Case Study of Energy Efficiency Retrofit in Social Housing Units. Energy Procedia, 2013, 42, 289-298.	1.8	18
92	Intelligent sun-tracking system based on multiple photodiode sensors for maximisation of photovoltaic energy production. Mathematics and Computers in Simulation, 2013, 91, 16-28.	4.4	18
93	Assessment of micro-wind turbines performance in the urban environments: an aided methodology through geographical information systems. International Journal of Energy and Environmental Engineering, 2013, 4, 43.	2.5	45
94	Study on the Application of Cool Paintings for the Passive Cooling of Existing Buildings in Mediterranean Climates. Advances in Mechanical Engineering, 2013, 5, 413675.	1.6	20
95	GIS-Based Decision Support for Solar Photovoltaic Planning in Urban Environment. Smart Innovation, Systems and Technologies, 2013, , 865-874.	0.6	18
96	Analysis of acoustic climate on board public transport. WIT Transactions on Biomedicine and Health, 2013, , .	0.0	4
97	A Proposed Methodology for Estimating the Performance of Small Wind Turbines in Urban Areas. Smart Innovation, Systems and Technologies, 2012, , 539-548.	0.6	16
98	Optimal management of various renewable energy sources by a new forecasting method. , 2012, , .		20
99	Thermal performance of ventilated roofs during summer period. Energy and Buildings, 2012, 49, 611-618.	6.7	91
100	Thermal comfort analysis of public transport passengers in Catania. WIT Transactions on Ecology and the Environment, 2012, , .	0.0	3
101	The Dynamic Lighting Into The Working Environment. International Journal of Design and Nature and Ecodynamics, 2012, 7, 394-408.	0.5	1
102	Energy Analysis of Ventilated Roof. Smart Innovation, Systems and Technologies, 2011, , 15-23.	0.6	6
103	Thermal comfort in operating rooms: a case study. , 2011, , .		9
104	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
105	The dynamic lighting technique in indoor architecture. , 2011, , .		0
106	The pollution of water resources and interventions to mitigate and control environmental impact. WIT Transactions on Ecology and the Environment, 2011, , .	0.0	0
107	Thermofluid-dynamic analysis of ventilated facades. Energy and Buildings, 2010, 42, 1148-1155.	6.7	76
108	A Neural Network model for the estimation of bioclimatic indexes. WIT Transactions on Ecology and the Environment, 2010, , .	0.0	1

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109	Air quality in street canyons: a case study. WIT Transactions on Ecology and the Environment, 2009, , .	0.0	1
110	The application of GIS to air quality analysis in Enna City (Italy). , 2009, , .		0
111	Clean energy saving: applied research into Etnaâ€™s water supply systems in Catania, Italy. WIT Transactions on Ecology and the Environment, 2007, , .	0.0	0
112	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
113	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
114	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
115	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
116	The influence of constructional features and of buildings on indoor Rn entry: experimental research in Catania city (Italy). , 2003, , .		0
117	An experience of "renewable energy" intended as energetic save. Renewable Energy, 1994, 5, 1534-1537.	8.9	0