

Paolo Baggio

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2899805/publications.pdf>

Version: 2024-02-01

32
papers

1,226
citations

393982

19
h-index

476904

29
g-index

32
all docs

32
docs citations

32
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass as an energy source: Thermodynamic constraints on the performance of the conversion process. <i>Bioresource Technology</i> , 2008, 99, 7063-7073.	4.8	186
2	Analysis and modelling of window and glazing systems energy performance for a well insulated residential building. <i>Energy and Buildings</i> , 2011, 43, 1030-1037.	3.1	152
3	Coupled heat, water and gas flow in deformable porous media. <i>International Journal for Numerical Methods in Fluids</i> , 1995, 20, 969-987.	0.9	136
4	The use of biomass syngas in IC engines and CCGT plants: A comparative analysis. <i>Applied Thermal Engineering</i> , 2009, 29, 3309-3318.	3.0	117
5	Energy and environmental analysis of an innovative system based on municipal solid waste (MSW) pyrolysis and combined cycle. <i>Applied Thermal Engineering</i> , 2008, 28, 136-144.	3.0	70
6	Analysis of the influence of installation thermal bridges on windows performance: The case of clay block walls. <i>Energy and Buildings</i> , 2011, 43, 1435-1442.	3.1	50
7	Thermal dynamic transfer properties of the opaque envelope: Analytical and numerical tools for the assessment of the response to summer outdoor conditions. <i>Energy and Buildings</i> , 2011, 43, 2509-2517.	3.1	47
8	Thermo-hygro-mechanical analysis of concrete. <i>International Journal for Numerical Methods in Fluids</i> , 1995, 20, 573-595.	0.9	42
9	Experimental and modeling analysis of a batch gasification/pyrolysis reactor. <i>Energy Conversion and Management</i> , 2009, 50, 1426-1435.	4.4	40
10	On the effect of material uncertainties in envelope heat transfer simulations. <i>Energy and Buildings</i> , 2014, 71, 53-60.	3.1	40
11	Energy and economic optimization of solar-assisted heat pump systems with storage technologies for heating and cooling in residential buildings. <i>Renewable Energy</i> , 2020, 157, 90-99.	4.3	40
12	Process analysis of a molten carbonate fuel cell power plant fed with a biomass syngas. <i>Journal of Power Sources</i> , 2006, 157, 765-774.	4.0	32
13	Air-source heat pump and photovoltaic systems for residential heating and cooling: Potential of self-consumption in different European climates. <i>Building Simulation</i> , 2019, 12, 453-463.	3.0	31
14	The Scrovegni Chapel: The results of over 20 years of indoor climate monitoring. <i>Energy and Buildings</i> , 2015, 95, 144-152.	3.1	29
15	Warm-Air Intermittent De-icing System for Wind Turbines. <i>Wind Engineering</i> , 2006, 30, 361-374.	1.1	27
16	A thermodynamic analysis of natural gas reforming processes for fuel cell application. <i>Chemical Engineering Science</i> , 2007, 62, 5418-5424.	1.9	25
17	Syngas suitability for solid oxide fuel cells applications produced via biomass steam gasification process: Experimental and modeling analysis. <i>Journal of Power Sources</i> , 2011, 196, 10038-10049.	4.0	25
18	Rule-Based Control Strategy to Increase Photovoltaic Self-Consumption of a Modulating Heat Pump Using Water Storages and Building Mass Activation. <i>Energies</i> , 2020, 13, 6282.	1.6	22

#	ARTICLE	IF	CITATIONS
19	Building Integrating Phase Change Materials: A Dynamic Hygrothermal Simulation Model for System Analysis. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2019, 7, 325-342.	0.9	22
20	Enhancing PV Self-Consumption through Energy Communities in Heating-Dominated Climates. <i>Energies</i> , 2021, 14, 4165.	1.6	19
21	Integrated and dynamic energy modelling of a regional system: A cost-optimized approach in the deep decarbonisation of the Province of Trento (Italy). <i>Energy</i> , 2020, 209, 118378.	4.5	18
22	Uncertainty propagation of material properties in energy simulation of existing residential buildings: The role of buildings features. <i>Building Simulation</i> , 2018, 11, 449-464.	3.0	16
23	Demand-Side Management of Air-Source Heat Pump and Photovoltaic Systems for Heating Applications in the Italian Context. <i>Environments - MDPI</i> , 2018, 5, 132.	1.5	16
24	Analysis of the Influence of Control Strategy and Heating Loads on the Performance of Hybrid Heat Pump Systems for Residential Buildings. <i>Energies</i> , 2022, 15, 732.	1.6	6
25	<title>Evaluation of moisture content in porous material by dynamic energy balance</title>. , 1992, , .		4
26	CHP Gasification Systems Fed by Torrefied Biomass: Assessment of the Energy Performance. <i>Waste and Biomass Valorization</i> , 2014, 5, 147-155.	1.8	3
27	On the optimal mix between lead-acid battery and thermal storage tank for PV and heat pump systems in high performance buildings. <i>Energy Procedia</i> , 2017, 140, 423-433.	1.8	3
28	A Comparison of Three Evolutionary Algorithms for the Optimization of Building Design. <i>Applied Mechanics and Materials</i> , 0, 887, 140-147.	0.2	3
29	Simulation uncertainty in heat transfer across timber building components in the Italian climates: The role of thermal conductivity. <i>Energy and Buildings</i> , 2022, 268, 112190.	3.1	2
30	Analytical and Experimental Investigations on the Transient Heat Transfer Process in Moist Wood Wool Slabs. <i>Journal of Thermal Envelope and Building Science</i> , 2001, 24, 211-225.	0.5	1
31	ANALYSIS OF AN ABSORPTION CHILLER DRIVEN BY THE HEAT RECOVERY ON A SOLID OXIDE FUEL CELL. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2010, 18, 181-190.	0.8	1
32	Building Energy Simulation for Nearly Zero Energy Retrofit Design: The Model Calibration. , 2018, , .		1