

Constantinos A Balaras

List of Publications by Year in descending order

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75
papers

4,781
citations

101496

36
h-index

95218

68
g-index

75
all docs

75
docs citations

75
times ranked

4052
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared thermography for building diagnostics. Energy and Buildings, 2002, 34, 171-183.	3.1	412
2	European residential buildings and empirical assessment of the Hellenic building stock, energy consumption, emissions and potential energy savings. Building and Environment, 2007, 42, 1298-1314.	3.0	405
3	Solar air conditioning in Europeâ€”an overview. Renewable and Sustainable Energy Reviews, 2007, 11, 299-314.	8.2	332
4	Energy performance assessment of existing dwellings. Energy and Buildings, 2007, 39, 393-403.	3.1	209
5	The role of thermal mass on the cooling load of buildings. An overview of computational methods. Energy and Buildings, 1996, 24, 1-10.	3.1	208
6	HVAC and indoor thermal conditions in hospital operating rooms. Energy and Buildings, 2007, 39, 454-470.	3.1	196
7	Heating energy consumption and resulting environmental impact of European apartment buildings. Energy and Buildings, 2005, 37, 429-442.	3.1	194
8	Building typologies as a tool for assessing the energy performance of residential buildings â€” A case study for the Hellenic building stock. Energy and Buildings, 2011, 43, 3400-3409.	3.1	171
9	Potential for energy conservation in apartment buildings. Energy and Buildings, 2000, 31, 143-154.	3.1	150
10	Energy efficiency of PV panels under real outdoor conditionsâ€”An experimental assessment in Athens, Greece. Renewable Energy, 2017, 101, 236-243.	4.3	114
11	Data collection and analysis of the building stock and its energy performanceâ€”An example for Hellenic buildings. Energy and Buildings, 2010, 42, 1231-1237.	3.1	94
12	Energy conservation and retrofitting potential in Hellenic hotels. Energy and Buildings, 1996, 24, 65-75.	3.1	93
13	Comparison of methodologies for tmy generation using 20 years data for Athens, Greece. Solar Energy, 1999, 66, 33-45.	2.9	92
14	Use of buried pipes for energy conservation in cooling of agricultural greenhouses. Solar Energy, 1995, 55, 111-124.	2.9	91
15	Mapping the energy performance of hellenic residential buildings from EPC (energy performance) Tj ETQq1 1 0.784314 rgBT /Overloc 1 4.5 90	4.5	90
16	Passive solar agricultural greenhouses: A worldwide classification and evaluation of technologies and systems used for heating purposes. Solar Energy, 1994, 53, 411-426.	2.9	89
17	Deterioration of European apartment buildings. Energy and Buildings, 2005, 37, 515-527.	3.1	89
18	Energy performance of buildingsâ€”EPBD in Greece. Energy Policy, 2012, 45, 469-477.	4.2	87

#	ARTICLE	IF	CITATIONS
19	Energy conservation potential, HVAC installations and operational issues in Hellenic airports. <i>Energy and Buildings</i> , 2003, 35, 1105-1120.	3.1	85
20	XENIOSâ€™a methodology for assessing refurbishment scenarios and the potential of application of RES and RUE in hotels. <i>Energy and Buildings</i> , 2004, 36, 1091-1105.	3.1	77
21	Empirical assessment of the Hellenic non-residential building stock, energy consumption, emissions and potential energy savings. <i>Energy Conversion and Management</i> , 2007, 48, 1160-1175.	4.4	76
22	Energy conservation in greenhouses with buried pipes. <i>Energy</i> , 1996, 21, 353-360.	4.5	72
23	Empirical assessment of calculated and actual heating energy use in Hellenic residential buildings. <i>Applied Energy</i> , 2016, 164, 115-132.	5.1	69
24	Indoor environmental quality in Hellenic hospital operating rooms. <i>Energy and Buildings</i> , 2009, 41, 551-560.	3.1	66
25	Energy consumption and the potential of energy savings in Hellenic office buildings used as bank branchesâ€™A case study. <i>Energy and Buildings</i> , 2011, 43, 770-778.	3.1	66
26	Air quality in hospital operating rooms. <i>Building and Environment</i> , 2008, 43, 1945-1952.	3.0	63
27	Energy characteristics and savings potential in office buildings. <i>Solar Energy</i> , 1994, 52, 59-66.	2.9	62
28	Energy conservation strategies for sports centers: Part B. Swimming pools. <i>Energy and Buildings</i> , 1998, 27, 123-135.	3.1	62
29	Modeling energy refurbishment scenarios for the Hellenic residential building stock towards the 2020 & 2030 targets. <i>Energy and Buildings</i> , 2016, 132, 74-90.	3.1	59
30	Development of a neural network heating controller for solar buildings. <i>Neural Networks</i> , 2000, 13, 811-820.	3.3	58
31	Numerical simulation and performance assessment of a low capacity solar assisted absorption heat pump coupled with a sub-floor system. <i>Solar Energy</i> , 2005, 79, 290-301.	2.9	49
32	Energy performance and energy conservation in health care buildings in hellas. <i>Energy Conversion and Management</i> , 1994, 35, 293-305.	4.4	46
33	Energy certification of Hellenic buildings: First findings. <i>Energy and Buildings</i> , 2013, 65, 429-437.	3.1	43
34	Natural convection heat transfer coefficients from vertical and horizontal surfaces for building applications. <i>Energy and Buildings</i> , 1994, 20, 243-249.	3.1	39
35	Energy consumption and the potential for energy conservation in school buildings in Hellas. <i>Energy</i> , 1994, 19, 653-660.	4.5	39
36	CO2 emission reduction policies in the greek residential sector: a methodological framework for their economic evaluation. <i>Energy Conversion and Management</i> , 2004, 45, 537-557.	4.4	37

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37	A review of augmentation techniques for heat transfer surfaces in single-phase heat exchangers. Energy, 1990, 15, 899-906.	4.5	36
38	On calculated and actual energy savings from thermal building renovations – Long term field evaluation of multifamily buildings. Energy and Buildings, 2020, 223, 110145.	3.1	35
39	EPIQR surveys of apartment buildings in Europe. Energy and Buildings, 2000, 31, 111-128.	3.1	33
40	Assessment of energy and natural resources conservation in office buildings using TOBUS. Energy and Buildings, 2002, 34, 135-153.	3.1	33
41	Ranking cost effective energy conservation measures for heating in Hellenic residential buildings. Energy and Buildings, 2014, 70, 318-332.	3.1	32
42	Active solar space heating of residential buildings in northern Hellas – a case study. Energy and Buildings, 1997, 26, 215-221.	3.1	31
43	Evaluating the need for economic support policies in promoting greenhouse gas emission reduction measures in the building sector: The case of Greece. Energy Policy, 2006, 34, 2012-2031.	4.2	30
44	Energy conservation strategies for sports centers: Part A. Sports halls. Energy and Buildings, 1998, 27, 109-122.	3.1	28
45	Analysis of the embodied energy of construction materials in the life cycle assessment of Hellenic residential buildings. Energy and Buildings, 2021, 232, 110651.	3.1	25
46	Single-sided ventilation of buildings through shaded large openings. Energy, 2002, 27, 93-115.	4.5	24
47	Energy policy and an action plan for renewable energy sources (RES) for the Hellenic islands of the North Aegean region. Energy, 1999, 24, 335-350.	4.5	22
48	A simple building energy model in form of an equivalent outdoor temperature. Energy and Buildings, 2021, 236, 110766.	3.1	21
49	Calculations and statistical analysis of the environmental cooling power index for Athens, Greece. Energy Conversion and Management, 1993, 34, 139-146.	4.4	20
50	On the energy consumption and indoor air quality in office and hospital buildings in Athens, Hellas. Energy Conversion and Management, 1994, 35, 385-394.	4.4	20
51	On the short term forecasting of heat power for heating of building. Journal of Cleaner Production, 2021, 307, 127232.	4.6	19
52	Modeling large openings with COMIS. Energy and Buildings, 1999, 30, 105-115.	3.1	18
53	Urban Sustainability Audits and Ratings of the Built Environment. Energies, 2019, 12, 4243.	1.6	18
54	Development of improved solar radiation models for predicting beam transmittance. Solar Energy, 1990, 44, 149-156.	2.9	16

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55	POTENTIAL OF RADIATIVE COOLING IN SOUTHERN EUROPE. International Journal of Solar Energy, 1992, 13, 189-203.	0.2	15
56	TOBUS – A European method and software for office building refurbishment. Energy and Buildings, 2002, 34, 111-112.	3.1	15
57	Benchmarks for Embodied and Operational Energy Assessment of Hellenic Single-Family Houses. Energies, 2020, 13, 4384.	1.6	15
58	A regression model for the beam transmittance of the atmosphere based on data for Shenandoah, Georgia, U.S.A.. Solar Energy, 1986, 37, 7-14.	2.9	11
59	Baselines for Energy Use and Carbon Emission Intensities in Hellenic Nonresidential Buildings. Energies, 2020, 13, 2100.	1.6	11
60	An easy and widely applicable forecast control for heating systems in existing and new buildings: First field experiences. Journal of Cleaner Production, 2022, 352, 131605.	4.6	10
61	Unveiling the existing condition and energy use in Hellenic school buildings. Energy and Buildings, 2021, 247, 111150.	3.1	9
62	Experimental Study of a Earth-to-Air Heat Exchanger Coupled to a Photovoltaic System. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 620-625.	1.1	8
63	ON THE RELATIONSHIP OF BEAM TRANSMITTANCE ON CLEARNESS INDEX FOR ATHENS, GREECE. International Journal of Solar Energy, 1989, 7, 171-179.	0.2	5
64	Analysis of thermal comfort conditions in Athens, Greece. Energy Conversion and Management, 1993, 34, 281-285.	4.4	5
65	Hellenic renewable energy policies and energy performance of residential buildings using solar collectors for domestic hot water production in Greece. Journal of Renewable and Sustainable Energy, 2013, 5, 041813.	0.8	5
66	Climate Change Scenarios and Their Implications on the Energy Performance of Hellenic Non-Residential Buildings. Sustainability, 2021, 13, 13005.	1.6	5
67	A methodology for selecting and screening novel refrigerants for use as alternative working fluids. Energy Conversion and Management, 1991, 31, 389-398.	4.4	4
68	Energy Performance of European Buildings. , 2007, , .		4
69	Impacts on Indoor Thermal Comfort and Heating Energy Use in Hellenic Dwellings from Occupant Behavioral Reactions. Applied Sciences (Switzerland), 2021, 11, 6254.	1.3	4
70	A surface fitting method for three dimensional scattered data. International Journal for Numerical Methods in Engineering, 1990, 29, 633-645.	1.5	3
71	High ambient air temperature frequency distribution at Hellenic islands. Energy and Buildings, 1998, 28, 119-126.	3.1	2
72	Representative typology of buildings: case study of hellenic non residential buildings. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-21.	1.2	2

#	ARTICLE	IF	CITATIONS
73	Building Energy Auditsâ€™Diagnosis and Retrofitting towards Decarbonization and Sustainable Cities. Energies, 2022, 15, 2039.	1.6	2
74	Realistic estimates of the beam radiation from global radiation measurements through an enhanced model for Athens, Greece. Solar & Wind Technology, 1990, 7, 313-320.	0.2	1
75	Towards a Sustainable Refurbishment of the Hellenic Residential Building Stock. , 2020, , 199-218.		0