

Constantinos A Balaras

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.

75
papers

3,894
citations

34
h-index

62
g-index

75
ext. papers

4,278
ext. citations

7
avg, IF

5.34
L-index

#	Paper	IF	Citations
75	European residential buildings and empirical assessment of the Hellenic building stock, energy consumption, emissions and potential energy savings. <i>Building and Environment</i> , 2007 , 42, 1298-1314	6.5	349
74	Infrared thermography for building diagnostics. <i>Energy and Buildings</i> , 2002 , 34, 171-183	7	312
73	Solar air conditioning in Europe—An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2007 , 11, 299-314	6.2	286
72	Energy performance assessment of existing dwellings. <i>Energy and Buildings</i> , 2007 , 39, 393-403	7	179
71	Heating energy consumption and resulting environmental impact of European apartment buildings. <i>Energy and Buildings</i> , 2005 , 37, 429-442	7	174
70	The role of thermal mass on the cooling load of buildings. An overview of computational methods. <i>Energy and Buildings</i> , 1996 , 24, 1-10	7	170
69	HVAC and indoor thermal conditions in hospital operating rooms. <i>Energy and Buildings</i> , 2007 , 39, 454-470	7	152
68	Building typologies as a tool for assessing the energy performance of residential buildings—A case study for the Hellenic building stock. <i>Energy and Buildings</i> , 2011 , 43, 3400-3409	7	140
67	Potential for energy conservation in apartment buildings. <i>Energy and Buildings</i> , 2000 , 31, 143-154	7	126
66	Comparison of methodologies for tmy generation using 20 years data for Athens, Greece. <i>Solar Energy</i> , 1999 , 66, 33-45	6.8	85
65	Data collection and analysis of the building stock and its energy performance—An example for Hellenic buildings. <i>Energy and Buildings</i> , 2010 , 42, 1231-1237	7	82
64	Use of buried pipes for energy conservation in cooling of agricultural greenhouses. <i>Solar Energy</i> , 1995 , 55, 111-124	6.8	79
63	Energy conservation and retrofitting potential in Hellenic hotels. <i>Energy and Buildings</i> , 1996 , 24, 65-75	7	78
62	Deterioration of European apartment buildings. <i>Energy and Buildings</i> , 2005 , 37, 515-527	7	76
61	Energy efficiency of PV panels under real outdoor conditions—An experimental assessment in Athens, Greece. <i>Renewable Energy</i> , 2017 , 101, 236-243	8.1	75
60	Passive solar agricultural greenhouses: A worldwide classification and evaluation of technologies and systems used for heating purposes. <i>Solar Energy</i> , 1994 , 53, 411-426	6.8	74
59	Energy conservation potential, HVAC installations and operational issues in Hellenic airports. <i>Energy and Buildings</i> , 2003 , 35, 1105-1120	7	70

58	Energy performance of buildings EPBD in Greece. <i>Energy Policy</i> , 2012 , 45, 469-477	7.2	68
57	XENIOS 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	7	66
56	Mapping the energy performance of hellenic residential buildings from EPC (energy performance certificate) data. <i>Energy</i> , 2016 , 98, 284-295	7.9	64
55	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	10.6	62
54	Energy conservation in greenhouses with buried pipes. <i>Energy</i> , 1996 , 21, 353-360	7.9	60
53	Energy characteristics and savings potential in office buildings. <i>Solar Energy</i> , 1994 , 52, 59-66	6.8	56
52	Indoor environmental quality in Hellenic hospital operating rooms. <i>Energy and Buildings</i> , 2009 , 41, 551-560		53
51	Energy consumption and the potential of energy savings in Hellenic office buildings used as bank branches a case study. <i>Energy and Buildings</i> , 2011 , 43, 770-778	7	53
50	Air quality in hospital operating rooms. <i>Building and Environment</i> , 2008 , 43, 1945-1952	6.5	53
49	Empirical assessment of calculated and actual heating energy use in Hellenic residential buildings. <i>Applied Energy</i> , 2016 , 164, 115-132	10.7	52
48	Development of a neural network heating controller for solar buildings. <i>Neural Networks</i> , 2000 , 13, 811-820		52
47	Energy conservation strategies for sports centers: Part B. Swimming pools. <i>Energy and Buildings</i> , 1998 , 27, 123-135	7	50
46	Modeling energy refurbishment scenarios for the Hellenic residential building stock towards the 2020 & 2030 targets. <i>Energy and Buildings</i> , 2016 , 132, 74-90	7	44
45	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	6.8	43
44	Energy performance and energy conservation in health care buildings in hellas. <i>Energy Conversion and Management</i> , 1994 , 35, 293-305	10.6	43
43	Energy consumption and the potential for energy conservation in school buildings in Hellas. <i>Energy</i> , 1994 , 19, 653-660	7.9	35
42	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	10.6	34
41	Natural convection heat transfer coefficients from vertical and horizontal surfaces for building applications. <i>Energy and Buildings</i> , 1994 , 20, 243-249	7	34

40	Energy certification of Hellenic buildings: First findings. <i>Energy and Buildings</i> , 2013 , 65, 429-437	7	32
39	EPIQR surveys of apartment buildings in Europe. <i>Energy and Buildings</i> , 2000 , 31, 111-128	7	30
38	A review of augmentation techniques for heat transfer surfaces in single-phase heat exchangers. <i>Energy</i> , 1990 , 15, 899-906	7.9	30
37	Active solar space heating of residential buildings in northern Hellas— case study. <i>Energy and Buildings</i> , 1997 , 26, 215-221	7	29
36	Assessment of energy and natural resources conservation in office buildings using TOBUS. <i>Energy and Buildings</i> , 2002 , 34, 135-153	7	29
35	Ranking cost effective energy conservation measures for heating in Hellenic residential buildings. <i>Energy and Buildings</i> , 2014 , 70, 318-332	7	28
34	Evaluating the need for economic support policies in promoting greenhouse gas emission reduction measures in the building sector: The case of Greece. <i>Energy Policy</i> , 2006 , 34, 2012-2031	7.2	28
33	Energy conservation strategies for sports centers: Part A. Sports halls. <i>Energy and Buildings</i> , 1998 , 27, 109-122	7	21
32	Energy policy and an action plan for renewable energy sources (RES) for the Hellenic islands of the North Aegean region. <i>Energy</i> , 1999 , 24, 335-350	7.9	19
31	On the energy consumption and indoor air quality in office and hospital buildings in Athens, Hellas. <i>Energy Conversion and Management</i> , 1994 , 35, 385-394	10.6	19
30	Calculations and statistical analysis of the environmental cooling power index for Athens, Greece. <i>Energy Conversion and Management</i> , 1993 , 34, 139-146	10.6	18
29	Single-sided ventilation of buildings through shaded large openings. <i>Energy</i> , 2002 , 27, 93-115	7.9	17
28	Modeling large openings with COMIS. <i>Energy and Buildings</i> , 1999 , 30, 105-115	7	15
27	Development of improved solar radiation models for predicting beam transmittance. <i>Solar Energy</i> , 1990 , 44, 149-156	6.8	15
26	On calculated and actual energy savings from thermal building renovations (Long term field evaluation of multifamily buildings. <i>Energy and Buildings</i> , 2020 , 223, 110145	7	14
25	TOBUS (A European method and software for office building refurbishment. <i>Energy and Buildings</i> , 2002 , 34, 111-112	7	13
24	A simple building energy model in form of an equivalent outdoor temperature. <i>Energy and Buildings</i> , 2021 , 236, 110766	7	12
23	POTENTIAL OF RADIATIVE COOLING IN SOUTHERN EUROPE. <i>International Journal of Solar Energy</i> , 1992 , 13, 189-203		11

22	A regression model for the beam transmittance of the atmosphere based on data for Shenandoah, Georgia, U.S.A.. <i>Solar Energy</i> , 1986 , 37, 7-14	6.8	9
21	Analysis of the embodied energy of construction materials in the life cycle assessment of Hellenic residential buildings. <i>Energy and Buildings</i> , 2021 , 232, 110651	7	9
20	Baselines for Energy Use and Carbon Emission Intensities in Hellenic Nonresidential Buildings. <i>Energies</i> , 2020 , 13, 2100	3.1	8
19	Urban Sustainability Audits and Ratings of the Built Environment. <i>Energies</i> , 2019 , 12, 4243	3.1	8
18	On the short term forecasting of heat power for heating of building. <i>Journal of Cleaner Production</i> , 2021 , 307, 127232	10.3	7
17	Experimental Study of a Earth-to-Air Heat Exchanger Coupled to a Photovoltaic System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2004 , 126, 620-625	2.3	6
16	Analysis of thermal comfort conditions in Athens, Greece. <i>Energy Conversion and Management</i> , 1993 , 34, 281-285	10.6	5
15	A methodology for selecting and screening novel refrigerants for use as alternative working fluids. <i>Energy Conversion and Management</i> , 1991 , 31, 389-398	10.6	4
14	ON THE RELATIONSHIP OF BEAM TRANSMITTANCE ON CLEARNESS INDEX FOR ATHENS, GREECE. <i>International Journal of Solar Energy</i> , 1989 , 7, 171-179		4
13	Benchmarks for Embodied and Operational Energy Assessment of Hellenic Single-Family Houses. <i>Energies</i> , 2020 , 13, 4384	3.1	4
12	Hellenic renewable energy policies and energy performance of residential buildings using solar collectors for domestic hot water production in Greece. <i>Journal of Renewable and Sustainable Energy</i> , 2013 , 5, 041813	2.5	3
11	Energy Performance of European Buildings 2007 ,		3
10	A surface fitting method for three dimensional scattered data. <i>International Journal for Numerical Methods in Engineering</i> , 1990 , 29, 633-645	2.4	3
9	An easy and widely applicable forecast control for heating systems in existing and new buildings: First field experiences. <i>Journal of Cleaner Production</i> , 2022 , 352, 131605	10.3	3
8	High ambient air temperature frequency distribution at Hellenic islands. <i>Energy and Buildings</i> , 1998 , 28, 119-126	7	2
7	Climate Change Scenarios and Their Implications on the Energy Performance of Hellenic Non-Residential Buildings. <i>Sustainability</i> , 2021 , 13, 13005	3.6	2
6	Unveiling the existing condition and energy use in Hellenic school buildings. <i>Energy and Buildings</i> , 2021 , 247, 111150	7	2
5	Realistic estimates of the beam radiation from global radiation measurements through an enhanced model for Athens, Greece. <i>Solar & Wind Technology</i> , 1990 , 7, 313-320		1

4	Impacts on Indoor Thermal Comfort and Heating Energy Use in Hellenic Dwellings from Occupant Behavioral Reactions. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6254	2.6	1
3	Representative typology of buildings: case study of hellenic non residential buildings. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> ,1-21	1.6	1
2	Building Energy AuditsDiagnosis and Retrofitting towards Decarbonization and Sustainable Cities. <i>Energies</i> , 2022 , 15, 2039	3.1	0
1	Towards a Sustainable Refurbishment of the Hellenic Residential Building Stock 2020 , 199-218		