

Athanassios A. Argiriou

List of Publications by Year in descending order

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99
papers

4,608
citations

136740

32
h-index

102304

66
g-index

100
all docs

100
docs citations

100
times ranked

4508
citing authors

#	ARTICLE	IF	CITATIONS
1	On the impact of urban climate on the energy consumption of buildings. <i>Solar Energy</i> , 2001, 70, 201-216.	2.9	689
2	Infrared thermography for building diagnostics. <i>Energy and Buildings</i> , 2002, 34, 171-183.	3.1	412
3	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.	3.0	405
4	Energy performance assessment of existing dwellings. <i>Energy and Buildings</i> , 2007, 39, 393-403.	3.1	209
5	Heating energy consumption and resulting environmental impact of European apartment buildings. <i>Energy and Buildings</i> , 2005, 37, 429-442.	3.1	194
6	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.	3.1	171
7	Potential for energy conservation in apartment buildings. <i>Energy and Buildings</i> , 2000, 31, 143-154.	3.1	150
8	Energy efficiency of PV panels under real outdoor conditions – An experimental assessment in Athens, Greece. <i>Renewable Energy</i> , 2017, 101, 236-243.	4.3	114
9	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.	3.1	94
10	Energy conservation and retrofitting potential in Hellenic hotels. <i>Energy and Buildings</i> , 1996, 24, 65-75.	3.1	93
11	Comparison of methodologies for my generation using 20 years data for Athens, Greece. <i>Solar Energy</i> , 1999, 66, 33-45.	2.9	92
12	Mapping the energy performance of hellenic residential buildings from EPC (energy performance) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	4.5	90
13	Deterioration of European apartment buildings. <i>Energy and Buildings</i> , 2005, 37, 515-527.	3.1	89
14	Isotopic modeling of the sub-cloud evaporation effect in precipitation. <i>Science of the Total Environment</i> , 2016, 544, 1059-1072.	3.9	85
15	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
16	On the combination of air velocity and flow measurements in single sided natural ventilation configurations. <i>Energy and Buildings</i> , 1996, 24, 155-165.	3.1	73
17	Energy conservation in greenhouses with buried pipes. <i>Energy</i> , 1996, 21, 353-360.	4.5	72
18	Empirical assessment of calculated and actual heating energy use in Hellenic residential buildings. <i>Applied Energy</i> , 2016, 164, 115-132.	5.1	69

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19	A neural network controller for hydronic heating systems of solar buildings. <i>Neural Networks</i> , 2004, 17, 427-440.	3.3	68
20	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.	3.1	66
21	Intelligent control system for reconciliation of the energy savings with comfort in buildings using soft computing techniques. <i>Energy and Buildings</i> , 2011, 43, 66-74.	3.1	65
22	Isotopic composition of precipitation in Greece. <i>Journal of Hydrology</i> , 2006, 327, 486-495.	2.3	63
23	Development of a neural network heating controller for solar buildings. <i>Neural Networks</i> , 2000, 13, 811-820.	3.3	58
24	Energy performance of European residential buildings: Energy use, technical and environmental characteristics of the Greek residential sector – energy conservation and CO ₂ reduction. <i>Energy and Buildings</i> , 2019, 183, 86-104.	3.1	52
25	Gridded data set of the stable isotopic composition of precipitation over the eastern and central Mediterranean. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	51
26	Determination of measuring sites for solar irradiance, based on cluster analysis of satellite-derived cloud estimations. <i>Solar Energy</i> , 2013, 97, 1-11.	2.9	51
27	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
28	Energy certification of Hellenic buildings: First findings. <i>Energy and Buildings</i> , 2013, 65, 429-437.	3.1	43
29	Stable isotopic composition of atmospheric water vapor in Patras, Greece: A concentration weighted trajectory approach. <i>Atmospheric Research</i> , 2015, 152, 93-104.	1.8	43
30	Combined analysis of rainfall and lightning data produced by mesoscale systems in the central and eastern Mediterranean. <i>Atmospheric Research</i> , 2007, 83, 55-63.	1.8	36
31	The impact of the energy performance regulations – updated on the construction technology, economics and energy aspects of new residential buildings: The case of Greece. <i>Energy and Buildings</i> , 2017, 155, 225-237.	3.1	35
32	Homogenization of mean monthly temperature time series of Greece. <i>International Journal of Climatology</i> , 2013, 33, 2649-2666.	1.5	34
33	EPIQR surveys of apartment buildings in Europe. <i>Energy and Buildings</i> , 2000, 31, 111-128.	3.1	33
34	Assessment of energy and natural resources conservation in office buildings using TOBUS. <i>Energy and Buildings</i> , 2002, 34, 135-153.	3.1	33
35	Active solar space heating of residential buildings in northern Hellas – a case study. <i>Energy and Buildings</i> , 1997, 26, 215-221.	3.1	31
36	Storms and Lightning Activity in Greece during the Warm Periods of 2003 – 06. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 3089-3098.	0.6	30

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37	The sensitivity of numerical forecasts to convective parameterization during the warm period and the use of lightning data as an indicator for convective occurrence. <i>Atmospheric Research</i> , 2009, 94, 704-714.	1.8	29
38	Detection and correction of inhomogeneities in Greek climate temperature series. <i>International Journal of Climatology</i> , 2014, 34, 3024-3043.	1.5	29
39	On the efficiency of night ventilation techniques for thermostatically controlled buildings. <i>Solar Energy</i> , 1996, 56, 479-483.	2.9	26
40	Single-sided ventilation of buildings through shaded large openings. <i>Energy</i> , 2002, 27, 93-115.	4.5	24
41	Spatially interpolated time series of $\hat{\Gamma}18\hat{\Gamma}$ in Eastern Mediterranean precipitation. <i>Global and Planetary Change</i> , 2010, 71, 150-159.	1.6	24
42	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.	4.5	22
43	The Relationship of Lightning Activity with Microwave Brightness Temperatures and Spaceborne Radar Reflectivity Profiles in the Central and Eastern Mediterranean. <i>Journal of Applied Meteorology and Climatology</i> , 2007, 46, 1901-1912.	0.6	22
44	CSHPSS systems in Greece: Test of simulation software and analysis of typical systems. <i>Solar Energy</i> , 1997, 60, 159-170.	2.9	20
45	The solar thermal market in Greece – review and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2003, 7, 397-418.	8.2	18
46	Urban Sustainability Audits and Ratings of the Built Environment. <i>Energies</i> , 2019, 12, 4243.	1.6	18
47	Reverse flood routing with the inverted Muskingum storage routing scheme. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 217-227.	1.5	17
48	The Air Quality of a Mediterranean Urban Environment Area and Its Relation to Major Meteorological Parameters. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	17
49	The test of the ecohydrological separation hypothesis in a dry zone of the northeastern Tibetan Plateau. <i>Ecohydrology</i> , 2019, 12, e2077.	1.1	17
50	Stable isotopic signature of precipitation under various synoptic classifications. <i>Physics and Chemistry of the Earth</i> , 2010, 35, 530-535.	1.2	16
51	Neural Network Model for Greenhouse Microclimate Predictions. <i>Agriculture (Switzerland)</i> , 2022, 12, 780.	1.4	16
52	TOBUS – A European method and software for office building refurbishment. <i>Energy and Buildings</i> , 2002, 34, 111-112.	3.1	15
53	On the Methods for the Delimitation of Seasons. <i>Water, Air and Soil Pollution</i> , 2004, 4, 65-74.	0.8	15
54	Lightning activity in the Mediterranean: quantification of cyclones contribution and relation to their intensity. <i>Atmospheric Science Letters</i> , 2016, 17, 510-516.	0.8	15

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55	Periodicity analysis of $\delta^{18}\text{O}$ in precipitation over Central Europe: Time-frequency considerations of the isotopic temperature effect. <i>Journal of Hydrology</i> , 2016, 534, 150-163.	2.3	15
56	Benchmarks for Embodied and Operational Energy Assessment of Hellenic Single-Family Houses. <i>Energies</i> , 2020, 13, 4384.	1.6	15
57	Stable Isotope Composition in Surface Water in the Upper Yellow River in Northwest China. <i>Water (Switzerland)</i> , 2019, 11, 967.	1.2	12
58	Baselines for Energy Use and Carbon Emission Intensities in Hellenic Nonresidential Buildings. <i>Energies</i> , 2020, 13, 2100.	1.6	11
59	Thermal storage efficiencies of two solar saltless water ponds. <i>Solar Energy</i> , 2003, 75, 207-216.	2.9	9
60	An advanced method for classifying atmospheric circulation types based on prototypes connectivity graph. <i>Atmospheric Research</i> , 2012, 118, 180-192.	1.8	9
61	High resolution air temperature climatology for Greece for the period 1971-2000. <i>Meteorological Applications</i> , 2017, 24, 191-205.	0.9	9
62	Unveiling the existing condition and energy use in Hellenic school buildings. <i>Energy and Buildings</i> , 2021, 247, 111150.	3.1	9
63	Social cost of electricity generation in Greece. <i>Renewable Energy</i> , 1997, 12, 281-289.	4.3	8
64	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.	1.1	8
65	Temporal trends in the stable isotope composition of precipitation: a comparison between the eastern Mediterranean and central Europe. <i>Theoretical and Applied Climatology</i> , 2011, 105, 199-207.	1.3	8
66	Water Stable Isotopes in an Alpine Setting of the Northeastern Tibetan Plateau. <i>Water (Switzerland)</i> , 2019, 11, 770.	1.2	8
67	Deuterium Excess in Precipitation Reveals Water Vapor Source in the Monsoon Margin Sites in Northwest China. <i>Water (Switzerland)</i> , 2020, 12, 3315.	1.2	8
68	Local Meteoric Water Lines in a Semi-Arid Setting of Northwest China Using Multiple Methods. <i>Water (Switzerland)</i> , 2021, 13, 2380.	1.2	8
69	An application of a feed-forward neural network model for wind speed predictions. <i>International Journal of Sustainable Energy</i> , 2022, 41, 323-340.	1.3	6
70	Tropospheric Correction of Sentinel-1 Synthetic Aperture Radar Interferograms Using a High-Resolution Weather Model Validated by GNSS Measurements. <i>Remote Sensing</i> , 2021, 13, 2258.	1.8	6
71	Optical and thermal performance simulation of a micro-mirror solar collector. <i>Energy Reports</i> , 2022, 8, 6624-6632.	2.5	6
72	Site adaptation of global horizontal irradiance from the Copernicus Atmospheric Monitoring Service for radiation using supervised machine learning techniques. <i>Renewable Energy</i> , 2022, 195, 92-106.	4.3	6

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73	Isoscape of $\delta^{18}O$ in Precipitation of the Qinghai-Tibet Plateau: Assessment and Improvement. <i>Water (Switzerland)</i> , 2020, 12, 3392.	1.2	5
74	Use of GNSS Tropospheric Delay Measurements for the Parameterization and Validation of WRF High-Resolution Re-Analysis over the Western Gulf of Corinth, Greece: The PaTrop Experiment. <i>Remote Sensing</i> , 2021, 13, 1898.	1.8	5
75	Energy Use Intensities for Asset Rating of Hellenic Non-Residential Buildings. <i>Global Journal of Energy Technology Research Updates</i> , 2018, 5, 19-36.	0.2	5
76	Climate Change Scenarios and Their Implications on the Energy Performance of Hellenic Non-Residential Buildings. <i>Sustainability</i> , 2021, 13, 13005.	1.6	5
77	A Triple Hot-Wire System for Indoor Air Flow Measurements. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1996, 118, 168-176.	1.1	4
78	Comparing Control Strategies Using Experimental and Simulation Results: Methodology and Application to Heating Control of Passive Solar Buildings. <i>HVAC and R Research</i> , 2006, 12, 715-737.	0.9	4
79	Stable Hydrogen and Oxygen Isotope Characteristics of Bottled Water in China: A Consideration of Water Source. <i>Water (Switzerland)</i> , 2019, 11, 1065.	1.2	4
80	Modeling Insights into Precipitation Deuterium Excess as an Indicator of Raindrop Evaporation in Lanzhou, China. <i>Water (Switzerland)</i> , 2021, 13, 193.	1.2	4
81	A Stable Isotope Approach for Estimating the Contribution of Recycled Moisture to Precipitation in Lanzhou City, China. <i>Water (Switzerland)</i> , 2021, 13, 1783.	1.2	4
82	Impacts on Indoor Thermal Comfort and Heating Energy Use in Hellenic Dwellings from Occupant Behavioral Reactions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6254.	1.3	4
83	Homogenization of Precipitation Series in Greece. <i>Springer Atmospheric Sciences</i> , 2017, , 583-590.	0.4	3
84	The sensitivity of warm period precipitation forecasts to various modifications of the Kain-Fritsch Convective Parameterization scheme. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 1327-1339.	1.5	2
85	An Efficient Approach to Spatiotemporal Analysis and Modeling of Air Pollution Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 371-388.	0.7	2
86	Stable Isotope Signatures and Moisture Transport of a Typical Heavy Precipitation Case in the Southern Tianshan Mountains. <i>Chinese Geographical Science</i> , 2020, 30, 180-188.	1.2	2
87	The Dark Universe Is Not Invisible. <i>Physical Sciences Forum</i> , 2021, 2, 10.	0.3	2
88	Recharge and Infiltration Mechanisms of Soil Water in the Floodplain Revealed by Water-Stable Isotopes in the Upper Yellow River. <i>Sustainability</i> , 2021, 13, 9369.	1.6	2
89	Plant water resource partitioning and xylem-to-leaf deuterium enrichment in Lanzhou, northwest China. <i>Water Science and Technology: Water Supply</i> , 2020, 20, 1127-1140.	1.0	2
90	Testing mean air temperature trends in southern Greece: A Bayesian approach. <i>International Journal of Climatology</i> , 2022, 42, 4989-5015.	1.5	2

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91	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
92	Low-Cost Data Acquisition System for Solar Thermal Collectors. Electronics (Switzerland), 2022, 11, 934.	1.8	2
93	Building Energy Auditsâ€™Diagnosis and Retrofitting towards Decarbonization and Sustainable Cities. Energies, 2022, 15, 2039.	1.6	2
94	Use of shadowband correction models for predicting direct solar irradiance. , 2013, , .		1
95	Validation and Bias Correction of Monthly $\hat{1}80$ Precipitation Time Series from ECHAM5-Wiso Model in Central Europe. Oxygen, 2022, 2, 109-124.	1.6	1
96	A machine vision based method for atmospheric circulation classification. , 2009, , .		0
97	Weather maps classification over Greek domain based on isobaric line patterns. Theoretical and Applied Climatology, 2013, 114, 691-704.	1.3	0
98	Efficient ANN Training for the Reconstruction of Isotopic Time Series. Springer Atmospheric Sciences, 2013, , 825-831.	0.4	0
99	Optimizing the input vectors of applied artificial neural network models for wind power production forecasting. Wind Engineering, 0, , 0309524X2110463.	1.1	0