

Agis M Papadopoulos

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.

131
papers

3,964
citations

35
h-index

59
g-index

140
ext. papers

4,556
ext. citations

5.4
avg, IF

6.31
L-index

#	Paper	IF	Citations
131	State of the art in thermal insulation materials and aims for future developments. <i>Energy and Buildings</i> , 2005 , 37, 77-86	7	523
130	Application of the multi-criteria analysis method Electre III for the optimisation of decentralised energy systems. <i>Omega</i> , 2008 , 36, 766-776	7.2	172
129	Environmental performance evaluation of thermal insulation materials and its impact on the building. <i>Building and Environment</i> , 2007 , 42, 2178-2187	6.5	156
128	Smart technologies for promotion of energy efficiency, utilization of sustainable resources and waste management. <i>Journal of Cleaner Production</i> , 2019 , 231, 565-591	10.3	154
127	The impact of thermal bridges on the energy demand of buildings with double brick wall constructions. <i>Energy and Buildings</i> , 2008 , 40, 2083-2089	7	130
126	Feasibility of energy saving renovation measures in urban buildings. <i>Energy and Buildings</i> , 2002 , 34, 455-466	7	106
125	A typological classification of the Greek residential building stock. <i>Energy and Buildings</i> , 2011 , 43, 2779-2787	7	101
124	An assessment tool for the energy, economic and environmental evaluation of thermal insulation solutions. <i>Energy and Buildings</i> , 2009 , 41, 1165-1171	7	98
123	Comprehensive analysis and general economic-environmental evaluation of cooling techniques for photovoltaic panels, Part I: Passive cooling techniques. <i>Energy Conversion and Management</i> , 2017 , 149, 334-354	10.6	95
122	Financial crisis and energy consumption: A household survey in Greece. <i>Energy and Buildings</i> , 2013 , 65, 477-487	7	92
121	Comprehensive analysis and general economic-environmental evaluation of cooling techniques for photovoltaic panels, Part II: Active cooling techniques. <i>Energy Conversion and Management</i> , 2018 , 155, 301-323	10.6	90
120	A comparative review of heating systems in EU countries, based on efficiency and fuel cost. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 90, 687-699	16.2	83
119	Statistical analysis of the Greek residential building stock. <i>Energy and Buildings</i> , 2011 , 43, 2422-2428	7	74
118	The impact of temperature and moisture on the thermal performance of stone wool. <i>Energy and Buildings</i> , 2008 , 40, 1402-1411	7	70
117	Experimental investigation of the passive cooled free-standing photovoltaic panel with fixed aluminum fins on the backside surface. <i>Journal of Cleaner Production</i> , 2018 , 176, 119-129	10.3	69
116	Perspectives of solar cooling in view of the developments in the air-conditioning sector. <i>Renewable and Sustainable Energy Reviews</i> , 2003 , 7, 419-438	16.2	67
115	Phase change material based cooling of photovoltaic panel: A simplified numerical model for the optimization of the phase change material layer and general economic evaluation. <i>Journal of Cleaner Production</i> , 2018 , 189, 738-745	10.3	66

114	Occupants thermal comfort: State of the art and the prospects of personalized assessment in office buildings. <i>Energy and Buildings</i> , 2017 , 153, 136-149	7	59
113	Assessment of retrofitting measures and solar systems' potential in urban areas using Geographical Information Systems: Application to a Mediterranean city. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 6239-6261	16.2	57
112	Energy, economic and environmental performance of heating systems in Greek buildings. <i>Energy and Buildings</i> , 2008 , 40, 224-230	7	57
111	Performance of radiant cooling surfaces with respect to energy consumption and thermal comfort. <i>Energy and Buildings</i> , 2013 , 57, 199-209	7	56
110	Supporting schemes for renewable energy sources and their impact on reducing the emissions of greenhouse gases in Greece. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 1767-1788	16.2	53
109	Experimental and numerical investigation of a backside convective cooling mechanism on photovoltaic panels. <i>Energy</i> , 2016 , 111, 211-225	7.9	52
108	Application of multicriteria analysis in designing HVAC systems. <i>Energy and Buildings</i> , 2009 , 41, 774-780	7	51
107	Urban solar energy potential in Greece: A statistical calculation model of suitable built roof areas for photovoltaics. <i>Energy and Buildings</i> , 2013 , 62, 459-468	7	49
106	The characteristics and the energy behaviour of the residential building stock of Cyprus in view of Directive 2002/91/EC. <i>Energy and Buildings</i> , 2010 , 42, 2083-2089	7	47
105	Performance of a Passive House under subtropical climatic conditions. <i>Energy and Buildings</i> , 2016 , 133, 14-31	7	45
104	Cost-optimal insulation thickness in dry and mesothermal climates: Existing models and their improvement. <i>Energy and Buildings</i> , 2014 , 68, 203-212	7	44
103	Forty years of regulations on the thermal performance of the building envelope in Europe: Achievements, perspectives and challenges. <i>Energy and Buildings</i> , 2016 , 127, 942-952	7	44
102	Solar cooling system using concentrating collectors for office buildings: A case study for Greece. <i>Renewable Energy</i> , 2016 , 97, 697-708	8.1	38
101	Hybrid energy scenarios for residential applications based on the heat pump split air-conditioning units for operation in the Mediterranean climate conditions. <i>Energy and Buildings</i> , 2017 , 140, 110-120	7	37
100	The influence of street canyons on the cooling loads of buildings and the performance of air conditioning systems. <i>Energy and Buildings</i> , 2001 , 33, 601-607	7	37
99	Analysis of flow separation effect in the case of the free-standing photovoltaic panel exposed to various operating conditions. <i>Journal of Cleaner Production</i> , 2018 , 174, 53-64	10.3	37
98	Energy poverty and energy efficiency improvements: A longitudinal approach of the Hellenic households. <i>Energy and Buildings</i> , 2019 , 197, 242-250	7	36
97	Comparative analysis of various heating systems for residential buildings in Mediterranean climate. <i>Energy and Buildings</i> , 2016 , 124, 79-87	7	35

96	Hybrid energy fuel cell based system for household applications in a Mediterranean climate. <i>Energy Conversion and Management</i> , 2015 , 105, 1037-1045	10.6	34
95	Energy efficiency in the Hellenic building sector: An assessment of the restrictions and perspectives of the market. <i>Energy Policy</i> , 2010 , 38, 2776-2784	7.2	32
94	Photovoltaics in urban environment: A case study for typical apartment buildings in Greece. <i>Renewable Energy</i> , 2012 , 48, 453-463	8.1	31
93	Energy, environmental and economic optimization of thermal insulation solutions by means of an integrated decision support system. <i>Energy and Buildings</i> , 2011 , 43, 686-694	7	31
92	Assessment tools for the environmental evaluation of concrete, plaster and brick elements production. <i>Journal of Cleaner Production</i> , 2015 , 99, 75-85	10.3	30
91	Life cycle analysis (LCA) and life cycle cost analysis (LCCA) of phase change materials (PCM) for thermal applications: A review. <i>International Journal of Energy Research</i> , 2018 , 42, 3068-3077	4.5	29
90	Developments in the utilisation of wind energy in Greece. <i>Renewable Energy</i> , 2008 , 33, 105-110	8.1	28
89	Energy study of a medieval tower, restored as a museum. <i>Energy and Buildings</i> , 2003 , 35, 951-961	7	28
88	A computational method to assess the impact of urban climate on buildings using modeled climatic data. <i>Energy and Buildings</i> , 2008 , 40, 215-223	7	26
87	Multiobjective optimization of a building envelope with the use of phase change materials (PCMs) in Mediterranean climates. <i>International Journal of Energy Research</i> , 2018 , 42, 3030-3047	4.5	25
86	A feasibility evaluation tool for sustainable cities – A case study for Greece. <i>Energy Policy</i> , 2012 , 44, 207-216	7.9	25
85	Agroforestry for high value tree systems in Europe. <i>Agroforestry Systems</i> , 2018 , 92, 945-959	2	24
84	Rating systems for counting buildings' environmental performance. <i>International Journal of Sustainable Energy</i> , 2009 , 28, 29-43	2.7	23
83	Life cycle and life cycle cost implications of integrated phase change materials in office buildings. <i>International Journal of Energy Research</i> , 2019 , 43, 150-166	4.5	23
82	Integrated evaluation of radiative heating systems for residential buildings. <i>Energy</i> , 2011 , 36, 4207-4215	7.9	22
81	Sustainable building management: overview of certification schemes and standards. <i>Advances in Building Energy Research</i> , 2012 , 6, 242-258	1.8	22
80	The impact of economic recession on domestic energy consumption. <i>International Journal of Sustainable Energy</i> , 2015 , 34, 259-270	2.7	21
79	Energy Cost and its Impact on Regulating Building Energy Behaviour. <i>Advances in Building Energy Research</i> , 2007 , 1, 105-121	1.8	20

78	Environmental performance of energy systems of residential buildings: Toward sustainable communities. <i>Sustainable Cities and Society</i> , 2016 , 20, 96-108	10.1	19
77	Thermal constant analysis of phase change nanocomposites and discussion on selection strategies with respect to economic constraints. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 43, 100954-7	4.7	19
76	Developing a new library of materials and structural elements for the simulative evaluation of buildings' energy performance. <i>Building and Environment</i> , 2008 , 43, 710-719	6.5	18
75	Optimisation of thermal protection in residential buildings using the variable base degree-days method. <i>International Journal of Sustainable Energy</i> , 2005 , 24, 19-31	2.7	16
74	Energy and Environmental Performance of Solar Thermal Systems in Hotel Buildings. <i>Procedia Environmental Sciences</i> , 2017 , 38, 36-43		15
73	Techno-economic and environmental evaluation of passive cooled photovoltaic systems in Mediterranean climate conditions. <i>Applied Thermal Engineering</i> , 2020 , 169, 114947	5.8	15
72	Façade photovoltaic systems on multifamily buildings: An urban scale evaluation analysis using geographical information systems. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 912-933	16.2	15
71	Legislative framework for photovoltaics in Greece: A review of the sector's development. <i>Energy Policy</i> , 2013 , 55, 296-304	7.2	15
70	Characteristics of wastes from electric and electronic equipment in Greece: results of a field survey. <i>Waste Management and Research</i> , 2005 , 23, 381-8	4	14
69	Building Integrated Shading and Building Applied Photovoltaic System Assessment in the Energy Performance and Thermal Comfort of Office Buildings. <i>Sustainability</i> , 2018 , 10, 4670	3.6	14
68	Domestic energy deprivation in Greece: A field study. <i>Energy and Buildings</i> , 2017 , 144, 167-174	7	13
67	Application of smart wearable sensors in office buildings for modelling of occupants' metabolic responses. <i>Energy and Buildings</i> , 2020 , 226, 110399	7	13
66	Monitoring energy poverty in Northern Greece: the energy poverty phenomenon. <i>International Journal of Sustainable Energy</i> , 2019 , 38, 74-88	2.7	13
65	Microbial fuel cells for bioelectricity production from waste as sustainable prospect of future energy sector. <i>Chemosphere</i> , 2022 , 287, 132285	8.4	13
64	Residential photovoltaic systems in Greece and in other European countries: a comparison and an overview. <i>Advances in Building Energy Research</i> , 2012 , 6, 141-158	1.8	12
63	Towards a holistic approach for the urban environment and its impact on energy utilisation in buildings: the ATREUS project. <i>Journal of Environmental Monitoring</i> , 2004 , 6, 841-8		12
62	Life cycle cost optimization analysis of battery storage system for residential photovoltaic panels. <i>Journal of Cleaner Production</i> , 2021 , 309, 127234	10.3	12
61	Smart facades for non-residential buildings: an assessment. <i>Advances in Building Energy Research</i> , 2017 , 11, 26-36	1.8	11

60	Analysis of novel passive cooling strategies for free-standing silicon photovoltaic panels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 163-175	4.1	11
59	Integrated Evaluation of the Performance of Composite Cool Thermal Insulation Materials. <i>Energy Procedia</i> , 2015 , 78, 1581-1586	2.3	11
58	Carbon footprint analysis as a tool for energy and environmental management in small and medium-sized enterprises. <i>International Journal of Sustainable Energy</i> , 2018 , 37, 21-29	2.7	10
57	Barriers on the propagation of renewable energy sources and sustainable solid waste management practices in Greece. <i>Waste Management and Research</i> , 2010 , 28, 967-76	4	9
56	Low energy cooling of the White Tower, functioning as a contemporary museum. <i>Energy and Buildings</i> , 2008 , 40, 1377-1386	7	9
55	Indoor Air Quality Guidelines and Standards - A State of the Art Review. <i>International Journal of Ventilation</i> , 2004 , 3, 267-278	1.1	9
54	Fostering the transition to sustainable electricity systems: A hierarchical analysis framework. <i>Journal of Cleaner Production</i> , 2019 , 206, 51-65	10.3	9
53	Solar Thermal Systems for Low Energy Hotel Buildings: State of The Art, Perspectives and Challenges. <i>Energy Procedia</i> , 2015 , 78, 1968-1973	2.3	8
52	Transportation cost analysis of the Hellenic system for alternative management of Waste Electrical and Electronic Equipment. <i>International Journal of Environment and Waste Management</i> , 2012 , 10, 70	0.9	8
51	Solar Air Conditioning: A Review of Technological and Market Perspectives. <i>Advances in Building Energy Research</i> , 2008 , 2, 123-157	1.8	8
50	Renewable energies and storage in small insular systems: Potential, perspectives and a case study. <i>Renewable Energy</i> , 2020 , 149, 103-114	8.1	8
49	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3079-3115	8.3	8
48	Concept of Building Evaluation Methodology for Gap Estimation Between Designed and Achieved Energy Savings. <i>Procedia Environmental Sciences</i> , 2017 , 38, 538-545		7
47	Residential Heating under Energy Poverty Conditions: A Field Study. <i>Procedia Environmental Sciences</i> , 2017 , 38, 867-874		7
46	A Statistical Approach to the Prediction of the Energy Performance of Hotel Stock. <i>International Journal of Ventilation</i> , 2011 , 10, 163-172	1.1	7
45	Indoor Environmental Quality in Naturally Ventilated Office Buildings and its Impact on their Energy Performance. <i>International Journal of Ventilation</i> , 2003 , 2, 203-212	1.1	7
44	Development of a hierarchical system for the teletransmission of environmental and energy data. <i>Telematics and Informatics</i> , 2000 , 17, 239-249	8.1	7
43	Times of Recession: Three Different Renewable Energy Stories from the Mediterranean Region. <i>Lecture Notes in Energy</i> , 2013 , 263-275	0.4	7

42	Managing the uncertainty of the U-value measurement using an auxiliary set along with a thermal camera. <i>Energy and Buildings</i> , 2021 , 242, 110984	7	6
41	Suitable thermal insulation solutions for Mediterranean climatic conditions: a case study for four Greek cities. <i>Energy Efficiency</i> , 2017 , 10, 1081-1098	3	5
40	Evaluation of Thermal Sensation in Office Buildings: A Case Study in the Mediterranean. <i>Procedia Environmental Sciences</i> , 2017 , 38, 28-35		5
39	On the evaluation of heating, ventilating and air conditioning systems. <i>Advances in Building Energy Research</i> , 2010 , 4, 23-44	1.8	5
38	An Assessment of the Overall Comfort Sensation in Workplaces. <i>International Journal of Ventilation</i> , 2012 , 10, 311-322	1.1	5
37	Web-based tools for environmental management. <i>Management of Environmental Quality</i> , 2001 , 12, 356-363		5
36	Energy policy and regulatory tools for sustainable buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 410, 012078	0.3	4
35	Impact of energy pricing on buildings' energy design. <i>Management of Environmental Quality</i> , 2006 , 17, 753-761	3.6	4
34	Evaluation of an attached sunspace without sun protection: How feasible is this approach in mediterranean summer conditions?. <i>International Journal of Solar Energy</i> , 2002 , 22, 93-104		4
33	Energy policy towards nZEB: The Hellenic and Cypriot case. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-14	1.6	4
32	Experimental investigation of novel hybrid phase change materials. <i>Clean Technologies and Environmental Policy</i> , 1	4.3	4
31	Policy implementation and energy-saving strategies for the residential sector: The case of the Greek Energy Refurbishment program. <i>Energy Policy</i> , 2021 , 149, 112100	7.2	4
30	Investigation of heat convection for photovoltaic panel towards efficient design of novel hybrid cooling approach with incorporated organic phase change material. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101497	4.7	4
29	Construction Materials and Green Building Certification. <i>Key Engineering Materials</i> , 2015 , 666, 89-96	0.4	3
28	Energy Efficiency in Hospitals: Historical Development, Trends and Perspectives 2016 , 217-233		3
27	Proposing intelligent alternative propulsion concepts contributing to higher CO ₂ savings with first generation biofuels. <i>Management of Environmental Quality</i> , 2008 , 19, 740-749	3.6	3
26	Alternative storage options for solar thermal systems. <i>International Journal of Energy Research</i> , 2021 , 45, 151-166	4.5	3
25	Developing a strategy for energy efficiency in the Egyptian building sector. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 410, 012076	0.3	2

24	Application of wearable sensory devices in predicting occupant's thermal comfort in office buildings during the cooling season. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 410, 012092	0.3	2
23	Development of an Integrated, Personalized Comfort Methodology for Office Buildings. <i>Energies</i> , 2017 , 10, 1202	3.1	2
22	Life Cycle Analysis of Solar Thermal Systems in Hotel Buildings. <i>Green Energy and Technology</i> , 2018 , 635-647		2
21	On the elasticity of residential energy consumption 2014 ,		2
20	Management of museums' indoor environment: An interdisciplinary challenge. <i>Advances in Building Energy Research</i> , 2011 , 5, 43-51	1.8	2
19	Analysis of environmental aspects affecting comfort in commercial buildings. <i>Thermal Science</i> , 2018 , 22, 819-830	1.2	2
18	Detecting SARS-CoV-2 lineages and mutational load in municipal wastewater; a use-case in the metropolitan area of Thessaloniki, Greece		2
17	Life Cycle Analysis and Life Cycle Cost Analysis of green roofs in the Mediterranean climatic conditions. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-14	1.6	2
16	Circularity in production process as a tool to reduce energy, environmental impacts and operational cost: The case of insulation materials 2019 ,		1
15	High performance building façades for Zero Energy Buildings in Greece: State of the art and perspectives. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 410, 012036	0.3	1
14	Phase Change Materials to increase the storage potential of solar thermal systems 2019 ,		1
13	Energy and economic analysis of an auditorium's air conditioning system with heat recovery in various climatic zones. <i>Thermal Science</i> , 2018 , 22, 933-943	1.2	1
12	Energy Consumption in Greek Households During the Economic Recession. <i>International Journal of Monitoring and Surveillance Technologies Research</i> , 2014 , 2, 25-39		1
11	Comfort Sensation Versus Environmental Aspects in Office Buildings. <i>Green Energy and Technology</i> , 2018 , 833-847	0.6	1
10	Ambient air temperature and degree-day data analysis of the period 2006-2017 for Cyprus. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 435-445	4.1	1
9	Indoor thermal comfort conditions in summer under subtropical climate conditions. <i>International Journal of Sustainable Energy</i> , 2020 , 39, 396-411	2.7	1
8	Effective ventilation strategies for net zero-energy buildings in Mediterranean climates. <i>International Journal of Ventilation</i> , 2016 , 1-17	1.1	1
7	Compost versus biogas treatment of sewage sludge dilemma assessment using life cycle analysis. <i>Journal of Cleaner Production</i> , 2022 , 350, 131490	10.3	1

6	Demand Side Flexibility Potential and Comfort Performance of Non-Residential Buildings. <i>Journal of Physics: Conference Series</i> , 2021 , 2069, 012151	0.3	0
5	Life Cycle Assessment for Supporting Dimensioning Battery Storage Systems in Micro-Grids for Residential Applications. <i>Energies</i> , 2021 , 14, 6189	3.1	0
4	Towards integrated energy and environmental management of commercial buildings: The Onassis Cultural Centre (OCC) case. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 410, 012039	0.3	
3	Energy and Environmental Evaluation of Retrofitting Facades for Zero Energy Buildings: The Case of an Office Building in Greece. <i>Journal of Physics: Conference Series</i> , 2021 , 2069, 012108	0.3	
2	Improving the Energy and Environmental Efficiency of the Hotel Sector. <i>Green Energy and Technology</i> , 2018 , 823-832	0.6	
1	Indoor environmental quality in non-residential buildings - experimental investigation. <i>Thermal Science</i> , 2016 , 20, 1521-1529	1.2	