

Maria Kolokotroni

List of Publications by Year in descending order

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67
papers

3,029
citations

185998

28
h-index

161609

54
g-index

70
all docs

70
docs citations

70
times ranked

2594
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of reflective materials on urban canyon albedo, outdoor and indoor microclimates. Building and Environment, 2022, 207, 108459.	3.0	32
2	Evaluating the indoor thermal resilience of ventilative cooling in non-residential low energy buildings: A review. Building and Environment, 2022, 222, 109376.	3.0	17
3	Predicting electricity demand profiles of new supermarkets using machine learning. Energy and Buildings, 2021, 234, 110635.	3.1	3
4	Comfort and Energy Implications of Urban Microclimate in High Latitudes. , 2021, , 79-104.		0
5	Energy-Efficient Envelope Design for Apartment Blocksâ€™ Case Study of A Residential Building in Spain. Applied Sciences (Switzerland), 2021, 11, 433.	1.3	1
6	Numerical Design and Laboratory Testing of Encapsulated PCM Panels for PCM-Air Heat Exchangers. Applied Sciences (Switzerland), 2021, 11, 676.	1.3	2
7	Ventilative Cooling in Combination with Passive Cooling: Thermal Masses and Phase-Change Materials (PCM). PoliTO Springer Series, 2021, , 141-165.	0.3	0
8	Resilient cooling strategies â€™ A critical review and qualitative assessment. Energy and Buildings, 2021, 251, 111312.	3.1	68
9	Investigation on the Thermal Condition of a Traditional Cold-Lane in Summer in Subtropical Humid Climate Region of China. Energies, 2020, 13, 6602.	1.6	0
10	Environmental impact of cool roof paint: case-study of house retrofit in two hot islands. Energy and Buildings, 2020, 217, 110007.	3.1	28
11	Built form, urban climate and building energy modelling: case-studies in Rome and Antofagasta. Journal of Building Performance Simulation, 2020, 13, 209-225.	1.0	47
12	Comparison of operational performance and analytical model of high concentrator photovoltaic thermal system at 2000 concentration ratio. E3S Web of Conferences, 2019, 111, 06007.	0.2	2
13	A data-driven approach for electricity load profile prediction of new supermarkets. Energy Procedia, 2019, 161, 242-250.	1.8	7
14	Supermarket Energy Use in the UK. Energy Procedia, 2019, 161, 325-332.	1.8	12
15	Environmental Impact of the High Concentrator Photovoltaic Thermal 2000x System. Sustainability, 2019, 11, 7213.	1.6	4
16	Household Appliance Commitment with Appliance Dependency Modelling. , 2019, , .		0
17	Analysis of operational performance of a mechanical ventilation cooling system with latent thermal energy storage. Energy and Buildings, 2018, 159, 529-541.	3.1	9
18	The Social, Educational, and Market Scenario for nZEB in Europe. Buildings, 2018, 8, 51.	1.4	5

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19	Cool roofs: High tech low cost solution for energy efficiency and thermal comfort in low rise low income houses in high solar radiation countries. <i>Energy and Buildings</i> , 2018, 176, 58-70.	3.1	62
20	Coupling night ventilative and active cooling to reduce energy use in supermarkets with high refrigeration loads. <i>Energy and Buildings</i> , 2018, 171, 26-39.	3.1	14
21	Environmental sustainability of renewable hydrogen in comparison with conventional cooking fuels. <i>Journal of Cleaner Production</i> , 2018, 196, 863-879.	4.6	48
22	Frozen food retail: Measuring and modelling energy use and space environmental systems in an operational supermarket. <i>Energy and Buildings</i> , 2017, 144, 129-143.	3.1	41
23	Comparative analysis on the energy use and environmental impact of different refrigeration systems for frozen food supermarket application. <i>Energy Procedia</i> , 2017, 123, 121-130.	1.8	22
24	A field study of wind dominant single sided ventilation through a narrow slotted architectural louvre system. <i>Energy and Buildings</i> , 2017, 138, 733-747.	3.1	29
25	Non Dimensional Analysis and Characterisation of Driving Forces for a Single Sided Slot Louvre Ventilation System. <i>International Journal of Ventilation</i> , 2016, 14, 335-348.	0.2	2
26	Cool and Green Roofs for Storage Buildings in Various Climates. <i>Procedia Engineering</i> , 2016, 169, 350-358.	1.2	11
27	The potential to generate solar hydrogen for cooking applications: Case studies of Ghana, Jamaica and Indonesia. <i>Renewable Energy</i> , 2016, 95, 495-509.	4.3	17
28	Building envelope design for climate change mitigation: a case study of hotels in Greece. <i>International Journal of Sustainable Energy</i> , 2016, 35, 944-967.	1.3	15
29	Solar hydrogen system for cooking applications: Experimental and numerical study. <i>Renewable Energy</i> , 2015, 83, 717-728.	4.3	25
30	Energy aspects and ventilation of food retail buildings. <i>Advances in Building Energy Research</i> , 2015, 9, 1-19.	1.1	11
31	The impact of surface characteristics on ambient temperature at urban micro scale: comparative field study in two climates. <i>International Journal of Low-Carbon Technologies</i> , 2015, 10, 165-175.	1.2	3
32	Time-averaged Single Sided Ventilation Rates and Thermal Environment in Cooling Mode for a Low Energy Retrofit Envelope. <i>International Journal of Ventilation</i> , 2014, 13, 153-168.	0.2	5
33	Energy demand and reduction opportunities in the UK food chain. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2014, 167, 162-170.	0.5	25
34	Cool roof technology in London: An experimental and modelling study. <i>Energy and Buildings</i> , 2013, 67, 658-667.	3.1	139
35	Coupled TRNSYS-CFD simulations evaluating the performance of PCM plate heat exchangers in an airport terminal building displacement conditioning system. <i>Building and Environment</i> , 2013, 65, 132-145.	3.0	79
36	Building communities: reducing energy use in tenanted commercial property. <i>Building Research and Information</i> , 2012, 40, 461-472.	2.0	46

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37	Using localised weather files to assess overheating in naturally ventilated offices within London's urban heat island. <i>Building Services Engineering Research and Technology</i> , 2012, 33, 351-369.	0.9	23
38	Modelling the relative importance of the urban heat island and the thermal quality of dwellings for overheating in London. <i>Building and Environment</i> , 2012, 57, 223-238.	3.0	129
39	A method for energy classification of hotels: A case-study of Greece. <i>Energy and Buildings</i> , 2012, 55, 553-562.	3.1	55
40	Improved simulation of phase change processes in applications where conduction is the dominant heat transfer mode. <i>Energy and Buildings</i> , 2012, 47, 353-359.	3.1	35
41	London's urban heat island: Impact on current and future energy consumption in office buildings. <i>Energy and Buildings</i> , 2012, 47, 302-311.	3.1	280
42	The comfort, energy and health implications of London's urban heat island. <i>Building Services Engineering Research and Technology</i> , 2011, 32, 35-52.	0.9	93
43	A validated methodology for the prediction of heating and cooling energy demand for buildings within the Urban Heat Island: Case-study of London. <i>Solar Energy</i> , 2010, 84, 2246-2255.	2.9	95
44	Urban heat island characteristics in London during winter. <i>Solar Energy</i> , 2009, 83, 1668-1682.	2.9	76
45	Heating and cooling degree day prediction within the London urban heat island area. <i>Building Services Engineering Research and Technology</i> , 2009, 30, 183-202.	0.9	33
46	Space heating demand and heatwave vulnerability: London domestic stock. <i>Building Research and Information</i> , 2009, 37, 583-597.	2.0	36
47	Integrating Active Thermal Mass Strategies with HVAC Systems: Dynamic Thermal Modelling. <i>International Journal of Ventilation</i> , 2009, 7, 345-367.	0.2	3
48	Urban heat island intensity in London: An investigation of the impact of physical characteristics on changes in outdoor air temperature during summer. <i>Solar Energy</i> , 2008, 82, 986-998.	2.9	262
49	Vent Discourse: Development of Educational Material on Energy Efficient Ventilation of Buildings. <i>International Journal of Ventilation</i> , 2007, 6, 61-67.	0.2	1
50	Increased Temperature and Intensification of the Urban Heat Island: Implications for Human Comfort and Urban Design. <i>Built Environment</i> , 2007, 33, 85-96.	0.4	99
51	The London Heat Island and building cooling design. <i>Solar Energy</i> , 2007, 81, 102-110.	2.9	148
52	Alternative energy technologies in buildings: Stakeholder perceptions. <i>Renewable Energy</i> , 2007, 32, 2320-2333.	4.3	39
53	The effect of the London urban heat island on building summer cooling demand and night ventilation strategies. <i>Solar Energy</i> , 2006, 80, 383-392.	2.9	282
54	System approach to the energy analysis of complex buildings. <i>Energy and Buildings</i> , 2005, 37, 930-938.	3.1	13

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55	Dynamic thermal CFD simulation of a typical office by efficient transient solution methods. <i>Building and Environment</i> , 2005, 40, 887-896.	3.0	22
56	Environmental impact analysis for typical office facades. <i>Building Research and Information</i> , 2004, 32, 2-16.	2.0	18
57	Windcatchers in Modern UK Buildings: Experimental Study. <i>International Journal of Ventilation</i> , 2004, 3, 67-78.	0.2	9
58	The balance of the annual heating and cooling demand within the London urban heat island. <i>Building Services Engineering Research and Technology</i> , 2002, 23, 207-213.	0.9	52
59	The London Heat Island: results from summertime monitoring. <i>Building Services Engineering Research and Technology</i> , 2002, 23, 97-106.	0.9	76
60	Transient Solution Methods for Dynamic Thermal Modelling within CFD. <i>International Journal of Ventilation</i> , 2002, 1, 141-156.	0.2	7
61	ETFE foil cushions in roofs and atria. <i>Construction and Building Materials</i> , 2001, 15, 323-327.	3.2	93
62	An investigation of passive ventilation cooling and control strategies for an educational building. <i>Applied Thermal Engineering</i> , 2001, 21, 183-199.	3.0	31
63	Cooling-energy reduction in air-conditioned offices by using night ventilation. <i>Applied Energy</i> , 1999, 63, 241-253.	5.1	154
64	Night cooling and ventilation design for office-type buildings. <i>Renewable Energy</i> , 1996, 8, 259-263.	4.3	8
65	Effectiveness of Extractor Fans in Reducing Airborne Moisture in Homes. <i>Indoor Air</i> , 1995, 5, 69-75.	2.0	0
66	Moisture movement and extractor fans : Experimental study. <i>Building Services Engineering Research and Technology</i> , 1993, 14, 23-28.	0.9	1
67	Guidelines for bioclimatic housing design in Greece. <i>Building and Environment</i> , 1990, 25, 297-307.	3.0	11