

Georgios Kokogiannakis

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,782
citations

201385

27
h-index

174990

52
g-index

63
all docs

63
docs citations

63
times ranked

2696
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of solid-liquid phase change materials and their encapsulation technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 48, 373-391.	8.2	677
2	Thermal management systems for Photovoltaics (PV) installations: A critical review. <i>Solar Energy</i> , 2013, 97, 238-254.	2.9	203
3	History and development of validation with the ESP-r simulation program. <i>Building and Environment</i> , 2008, 43, 601-609.	3.0	122
4	A decision tree based data-driven diagnostic strategy for air handling units. <i>Energy and Buildings</i> , 2016, 133, 37-45.	3.1	119
5	Development of microencapsulated phase change material for solar thermal energy storage. <i>Applied Thermal Engineering</i> , 2017, 112, 1205-1212.	3.0	115
6	A numerical and experimental analysis of an integrated TEG-PCM power enhancement system for photovoltaic cells. <i>Applied Energy</i> , 2019, 248, 688-701.	5.1	99
7	A method of uncertainty analysis for whole-life embodied carbon emissions (CO ₂ -e) of building materials of a net-zero energy building in Australia. <i>Journal of Cleaner Production</i> , 2019, 225, 541-553.	4.6	98
8	Review of phase change emulsions (PCMEs) and their applications in HVAC systems. <i>Energy and Buildings</i> , 2015, 94, 200-217.	3.1	89
9	A multi-objective design optimisation strategy for hybrid photovoltaic thermal collector (PVT)-solar air heater (SAH) systems with fins. <i>Solar Energy</i> , 2018, 163, 315-328.	2.9	79
10	Theoretical and practical evaluation of an earth-tube (E-tube) ventilation system. <i>Energy and Buildings</i> , 2011, 43, 728-736.	3.1	70
11	A model-based design optimization strategy for ground source heat pump systems with integrated photovoltaic thermal collectors. <i>Applied Energy</i> , 2018, 214, 178-190.	5.1	67
12	A sensor fault detection strategy for air handling units using cluster analysis. <i>Automation in Construction</i> , 2016, 70, 77-88.	4.8	64
13	Development of a dynamic model for a hybrid photovoltaic thermal collector "Solar air heater with fins. <i>Renewable Energy</i> , 2017, 101, 816-834.	4.3	63
14	Comparison of the simplified methods of the ISO 13790 standard and detailed modelling programs in a regulatory context. <i>Journal of Building Performance Simulation</i> , 2008, 1, 209-219.	1.0	59
15	Recent advances and development in optimal design and control of ground source heat pump systems. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110001.	8.2	56
16	Heat transfer analysis of an integrated double skin facade and phase change material blind system. <i>Building and Environment</i> , 2017, 125, 111-121.	3.0	54
17	A model-based optimal control strategy for ground source heat pump systems with integrated solar photovoltaic thermal collectors. <i>Applied Energy</i> , 2018, 228, 1399-1412.	5.1	54
18	Development of a novel phase change material emulsion for cooling systems. <i>Renewable Energy</i> , 2016, 87, 509-516.	4.3	39

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19	Phase change material blind system for double skin facade integration: System development and thermal performance evaluation. <i>Applied Energy</i> , 2019, 252, 113376.	5.1	36
20	Solar control: A general method for modelling of solar gains through complex facades in building simulation programs. <i>Energy and Buildings</i> , 2011, 43, 19-27.	3.1	35
21	Preparation of microencapsulated phase change materials (MEPCM) for thermal energy storage. <i>Energy Procedia</i> , 2017, 121, 95-101.	1.8	35
22	Incorporating environmental evaluation and thermal properties of concrete mix designs. <i>Construction and Building Materials</i> , 2016, 128, 422-435.	3.2	33
23	Numerical thermal evaluation of laminated binary microencapsulated phase change material drywall systems. <i>Building Simulation</i> , 2020, 13, 89-98.	3.0	33
24	Thermal evaluation of laminated composite phase change material gypsum board under dynamic conditions. <i>Renewable Energy</i> , 2015, 78, 448-456.	4.3	32
25	Integrated life cycle cost method for sustainable structural design by focusing on a benchmark office building in Australia. <i>Energy and Buildings</i> , 2018, 166, 525-537.	3.1	32
26	Development and evaluation of a comfort-oriented control strategy for thermal management of mixed-mode ventilated buildings. <i>Energy and Buildings</i> , 2019, 202, 109347.	3.1	32
27	Impact of structural design solutions on the energy and thermal performance of an Australian office building. <i>Building and Environment</i> , 2017, 124, 258-282.	3.0	27
28	Nanosilicon dioxide hydrosol as surfactant for preparation of microencapsulated phase change materials for thermal energy storage in buildings. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 301-310.	1.2	27
29	A critical review of methods for the performance evaluation of passive thermal retrofits in residential buildings. <i>Journal of Cleaner Production</i> , 2020, 263, 121408.	4.6	27
30	Ventilative cooling through automated window opening control systems to address thermal discomfort risk during the summer period: Framework, simulation and parametric analysis. <i>Energy and Buildings</i> , 2017, 153, 18-30.	3.1	26
31	Integrative modelling and optimisation of a desiccant cooling system coupled with a photovoltaic thermal-solar air heater. <i>Solar Energy</i> , 2019, 193, 929-947.	2.9	26
32	Optimisation of life cycle performance of a double-pass photovoltaic thermal-solar air heater with heat pipes. <i>Renewable Energy</i> , 2019, 138, 90-105.	4.3	24
33	Linear regression models for prediction of annual heating and cooling demand in representative Australian residential dwellings. <i>Energy Procedia</i> , 2017, 121, 79-86.	1.8	21
34	Experimental comparison of green facades with outdoor test cells during a hot humid season. <i>Energy and Buildings</i> , 2019, 185, 196-209.	3.1	21
35	Support for the integration of green roof constructions within Chinese building energy performance policies. <i>Energy</i> , 2014, 65, 71-79.	4.5	18
36	The role of Green Roofs on Reducing Heating and Cooling Loads: A Database across Chinese Climates. <i>Procedia Environmental Sciences</i> , 2011, 11, 604-610.	1.3	14

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37	Thermal Comfort Evaluation of a Mixed-mode Ventilated Office Building with Advanced Natural Ventilation and Underfloor air Distribution Systems. <i>Energy Procedia</i> , 2017, 111, 520-529.	1.8	14
38	Dynamic Exergy Analysis for the Thermal Storage Optimization of the Building Envelope. <i>Energies</i> , 2017, 10, 95.	1.6	12
39	Effect of design parameters on thermal performance of integrated phase change material blind system for double skin facade buildings. <i>International Journal of Low-Carbon Technologies</i> , 2019, 14, 286-293.	1.2	12
40	Evaluation of thermal bridging mitigation techniques and impact of calculation methods for lightweight steel frame external wall systems. <i>Journal of Building Engineering</i> , 2021, 43, 102893.	1.6	12
41	Microencapsulation of Paraffin with Poly (Urea Methacrylate) Shell for Solar Water Heater. <i>Energies</i> , 2019, 12, 3406.	1.6	11
42	A combined experimental and simulation method for appraising the energy performance of green roofs in Ningbo's Chinese climate. <i>Building Simulation</i> , 2014, 7, 13-20.	3.0	10
43	Numerical analysis of indoor thermal comfort in a cross-ventilated space with top-hung windows. <i>Energy Procedia</i> , 2017, 121, 222-229.	1.8	10
44	Mould risk evaluations in residential buildings via site audits and longitudinal monitoring. <i>Building and Environment</i> , 2021, 191, 107584.	3.0	10
45	Above-roof air temperature effects on HVAC and cool roof performance: Experiments and development of a predictive model. <i>Energy and Buildings</i> , 2020, 222, 110071.	3.1	9
46	Development of temperature-responsive transmission switch film (TRTSF) using phase change material for self-adaptive radiative cooling. <i>Applied Energy</i> , 2022, 322, 119457.	5.1	9
47	Simulating Thermochromic and Heat Mirror Glazing Systems in Hot and Cold Climates. <i>Energy Procedia</i> , 2014, 62, 22-31.	1.8	8
48	Thermal characterization of lauric acid and stearic acid binary eutectic mixture in latent heat thermal storage systems with tube and fins. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 753-759.	0.4	7
49	Thermal insulation effect of green facades based on calculation of heat transfer and long wave infrared radiative exchange. Measurement: <i>Journal of the International Measurement Confederation</i> , 2022, 188, 110555.	2.5	7
50	Effectiveness of an intensive green roof in a sub-tropical region. <i>Building Services Engineering Research and Technology</i> , 2013, 34, 417-432.	0.9	6
51	Mapping for the Future: Business Intelligence Tool to Map Regional Housing Stock. <i>Procedia Engineering</i> , 2017, 180, 1684-1694.	1.2	5
52	Impact of material surface properties on building performance across a variety of climates. <i>International Journal of Low-Carbon Technologies</i> , 2012, 7, 181-186.	1.2	4
53	Numerical modeling and simulation of an integrated TEG/PCM system for the enhancement of PV power output. , 2014, , .		4
54	Relationship Between Indoor Air Temperatures And Energy Bills For Low Income Homes In Australia. <i>Energy Procedia</i> , 2017, 121, 174-181.	1.8	2

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55	Development of a Bayesian based adaptive optimisation algorithm for the thermostat settings in agile open plan offices. <i>Energy and Buildings</i> , 2021, 230, 110536.	3.1	2
56	Numerical and experimental analysis into the thermal performance of a novel phase change material gypsum board. , 2014, , .		1
57	Evaluation of an Earth-tube (E-tube) Ventilation System. , 2010, , .		0
58	Evaluation of energy saving potential of green roofs in sub-tropical regions. , 2011, , .		0
59	Development of high melting temperature microencapsulated phase change material for compacted thermal energy storage bed. , 2014, , .		0
60	Mould risk assessments in remediated Australian residential buildings. , 2021, , .		0
61	Thermal Performance of Various Microencapsulated Phase Change Material Drywalls Integrated into Buildings: A Numerical Investigation by ESP-r. <i>Environmental Science and Engineering</i> , 2020, , 847-855.	0.1	0
62	Near-Roof Air Temperatures: Modelling the Implications for HVAC Performance and Cool Roofs. , 0, , .		0