

Karthik Panchabikesan

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

848
citations

471061

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h-index

476904

29
g-index

36
all docs

36
docs citations

36
times ranked

785
citing authors

#	ARTICLE	IF	CITATIONS
1	Analogy Between Thermal, Mechanical, and Electrical Energy Storage Systems. , 2022, , 315-328.		2
2	Operating performance of multi-modular water-phase change material tanks for emergency cooling in an underground shelter. International Journal of Energy Research, 2022, 46, 4609-4629.	2.2	2
3	Occupant-centric urban building energy modeling: Approaches, inputs, and data sources - A review. Energy and Buildings, 2022, 257, 111809.	3.1	30
4	Discovering, processing and consolidating housing stock and smart thermostat data in support of energy end-use mapping and housing retrofit program planning. Sustainable Cities and Society, 2022, 78, 103640.	5.1	9
5	Thermo-economic analysis of geothermal heat pump system integrated with multi-modular water-phase change material tanks for underground space cooling applications. Journal of Energy Storage, 2022, 45, 103726.	3.9	12
6	Data driven occupancy information for energy simulation and energy use assessment in residential buildings. Energy, 2021, 218, 119539.	4.5	33
7	Thermal performance of energy diaphragm wall (EDW) adjacent to air-conditioned space from the underground-engineering perspective. Geothermics, 2021, 91, 102044.	1.5	8
8	Extracting energy-related knowledge from mining occupants' behavioral data in residential buildings. Journal of Building Engineering, 2021, 39, 102319.	1.6	11
9	Experimental study on the direct evaporative air-cooling system with vermicompost material as the water storage medium. Sustainable Cities and Society, 2021, 71, 102991.	5.1	12
10	Understanding the influence of building characteristics on enhancing energy efficiency in residential buildings: A data mining based study. Journal of Building Engineering, 2021, 43, 103069.	1.6	3
11	Development of advanced controllers to extend the peak shifting possibilities in the residential buildings. Journal of Building Engineering, 2021, 43, 103026.	1.6	4
12	Season-Based Occupancy Prediction in Residential Buildings Using Machine Learning Models. E-Prime, 2021, 1, 100003.	2.1	11
13	Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions. Energy, 2020, 192, 116695.	4.5	23
14	A Comparison between PV and Dish Stirling Systems Towards Self-Sufficient Energy Building in Lebanon. , 2020, , .		0
15	Parametric study to maximize the peak load shifting and thermal comfort in residential buildings located in cold climates. Journal of Energy Storage, 2020, 30, 101560.	3.9	12
16	Performance of a self-learning predictive controller for peak shifting in a building integrated with energy storage. Sustainable Cities and Society, 2020, 60, 102285.	5.1	23
17	Computer modelling and experimental investigation of phase change hysteresis of PCMs: The state-of-the-art review. Applied Energy, 2020, 263, 114572.	5.1	69
18	Experimental Investigation of a Direct Evaporative Cooling System for Year-Round Thermal Management with Solar-Assisted Dryer. International Journal of Photoenergy, 2020, 2020, 1-24.	1.4	7

#	ARTICLE	IF	CITATIONS
19	Systematic data mining-based framework to discover potential energy waste patterns in residential buildings. <i>Energy and Buildings</i> , 2019, 199, 562-578.	3.1	29
20	Heat transfer and pressure drop performance of solar glycol/activated carbon based nanofluids in shot peened double pipe heat exchanger. <i>Renewable Energy</i> , 2019, 140, 580-591.	4.3	29
21	Experimental investigation on heat transfer and pressure drop of MWCNT - Solar glycol based nanofluids in shot peened double pipe heat exchanger. <i>Powder Technology</i> , 2019, 345, 815-824.	2.1	49
22	Opportunities and challenges of PCM-to-air heat exchangers (PAHXs) for building free cooling applicationsâ€”A comprehensive review. <i>Journal of Energy Storage</i> , 2019, 22, 157-175.	3.9	72
23	Heating demand and indoor air temperature prediction in a residential building using physical and statistical models: a comparative study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 072022.	0.3	4
24	Application of data mining in understanding the charging patterns of the hot water tank in a residential building: a case study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 052038.	0.3	0
25	Analysis on the driving factors and patterns of window opening and closing behaviour in French households. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 072060.	0.3	1
26	Influence of PCM thermal conductivity and HTF velocity during solidification of PCM through the free cooling concept â€” A parametric study. <i>Journal of Energy Storage</i> , 2019, 21, 48-57.	3.9	36
27	Experimental investigation on heat transfer augmentation of solar air heater using shot blasted V-corrugated absorber plate. <i>Renewable Energy</i> , 2018, 127, 213-229.	4.3	81
28	Experimental investigation of free cooling using phase change material-filled air heat exchanger for energy efficiency in buildings. <i>Advances in Building Energy Research</i> , 2018, 12, 139-149.	1.1	21
29	Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit. <i>Energy</i> , 2018, 144, 443-455.	4.5	41
30	Enhancement in peak shifting and shaving potential of electrically heated floor residential buildings using heat extraction system. <i>Journal of Energy Storage</i> , 2018, 18, 435-446.	3.9	12
31	GHG emission accounting and mitigation strategies to reduce the carbon footprint in conventional port activities â€” a case of the Port of Chennai. <i>Carbon Management</i> , 2017, 8, 45-56.	1.2	36
32	Passive cooling potential in buildings under various climatic conditions in India. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 1236-1252.	8.2	61
33	Sustainability and Environmental Management: Emissions Accounting for Ports. <i>Strategic Planning for Energy and the Environment</i> , 2017, 37, 8-26.	0.9	3
34	Effect of direct evaporative cooling during the charging process of phase change material based storage system for building free cooling applicationâ€”A real time experimental investigation. <i>Energy and Buildings</i> , 2017, 152, 250-263.	3.1	24
35	Review on phase change material based free cooling of buildingsâ€”The way toward sustainability. <i>Journal of Energy Storage</i> , 2015, 4, 74-88.	3.9	78
36	Application of PCM-based Thermal Energy Storage System in Buildings: A State of the Art Review on the Mathematical Modeling Approaches and Experimental Investigations. <i>Journal of Thermal Science</i> , 0, , .	0.9	0