

Karem Elsayed Ebaid Abdel Ghany Elfek

List of Publications by Year in descending order

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18
papers

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#	ARTICLE	IF	CITATIONS
1	Numerical comparison between single PCM and multi-stage PCM based high temperature thermal energy storage for CSP tower plants. <i>Applied Thermal Engineering</i> , 2018, 139, 609-622.	6.0	113
2	Thermal and economic evaluation of thermocline combined sensible-latent heat thermal energy storage system for medium temperature applications. <i>Energy Conversion and Management</i> , 2019, 189, 14-23.	9.2	78
3	Experimental investigations of thermal managements solutions in data centers buildings for different arrangements of cold aisles containments. <i>Journal of Building Engineering</i> , 2016, 5, 41-49.	3.4	75
4	Thermal performance analysis of thermocline combined sensible-latent heat storage system using cascaded-layered PCM designs for medium temperature applications. <i>Renewable Energy</i> , 2020, 152, 684-697.	8.9	62
5	Optimization of thermal performance in thermocline tank thermal energy storage system with the multilayered PCM(s) for CSP tower plants. <i>Applied Energy</i> , 2019, 243, 175-190.	10.1	58
6	Experimental investigations of air conditioning solutions in high power density data centers using a scaled physical model. <i>International Journal of Refrigeration</i> , 2016, 63, 87-99.	3.4	55
7	Recent advancement and enhanced battery performance using phase change materials based hybrid battery thermal management for electric vehicles. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111759.	16.4	49
8	Experimental parametric study of servers cooling management in data centers buildings. <i>Heat and Mass Transfer</i> , 2017, 53, 2083-2097.	2.1	37
9	Numerical characterization of thermocline behaviour of combined sensible-latent heat storage tank using brick manganese rod structure impregnated with PCM capsules. <i>Solar Energy</i> , 2019, 180, 243-256.	6.1	37
10	Thermal and economic evaluation of phase change material volume fraction for thermocline tank used in concentrating solar power plants. <i>Applied Energy</i> , 2020, 267, 115054.	10.1	37
11	Experimental study of solving thermal heterogeneity problem of data center servers. <i>Applied Thermal Engineering</i> , 2016, 109, 466-474.	6.0	33
12	Thermal management evaluation of Li-ion battery employing multiple phase change materials integrated thin heat sinks for hybrid electric vehicles. <i>Journal of Power Sources</i> , 2021, 516, 230680.	7.8	29
13	Thermo-economic evaluation of PCM layer thickness change on the performance of the hybrid heat storage tank for concentrating solar power plants. <i>Energy</i> , 2022, 253, 124128.	8.8	20
14	Numerical analysis on performances of shell side in segmental baffles, helical baffles and novel clamping anti-vibration baffles with square twisted tubes shell and tube heat exchangers. <i>Energy Procedia</i> , 2019, 158, 5770-5775.	1.8	16
15	Cycle cut-off criterion effect on the performance of cascaded, sensible, combined sensible-latent heat storage tank for concentrating solar power plants. <i>Energy</i> , 2021, 230, 120771.	8.8	15
16	Numerical investigation of the melting temperature effect on the performance of thermocline thermal energy storage tank for CSP. <i>Energy Procedia</i> , 2019, 158, 4715-4720.	1.8	5
17	Performance analysis of an air rock thermocline TES tank for concentrated solar power plants using the coupled DEM-CFD approach. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 3-19.	4.1	5
18	Influence of inlet temperature on the performance of cascade and hybrid storage tank for CSP plants. <i>Applied Thermal Engineering</i> , 2022, 206, 118098.	6.0	3