Eduard Or

List of Publications by Citations

35 papers	2,261 citations	26 h-index	36 g-index
36 ext. papers	2,605 ext. citations	7.8 avg, IF	5.08 L-index

#	Paper	IF	Citations
35	Review on phase change materials (PCMs) for cold thermal energy storage applications. *Applied Energy*, **2012**, 99, 513-533	10.7	667
34	Energy efficiency and renewable energy integration in data centres. Strategies and modelling review. *Renewable and Sustainable Energy Reviews*, **2015**, 42, 429-445	16.2	129
33	Overview of thermal energy storage (TES) potential energy savings and climate change mitigation in Spain and Europe. *Applied Energy*, **2011**, 88, 2764-2774	10.7	129
32	Comparative life cycle assessment of thermal energy storage systems for solar power plants. *Renewable Energy*, **2012**, 44, 166-173	8.1	112
31	Improving thermal performance of freezers using phase change materials. *International Journal of Refrigeration*, **2012**, 35, 984-991	3.8	90
30	Numerical modelling of ventilated facades: A review. *Renewable and Sustainable Energy Reviews*, **2013**, 22, 539-549	16.2	75
29	Thermal analysis of including phase change material in a domestic hot water cylinder. *Applied Thermal Engineering*, **2011**, 31, 3938-3945	5.8	70
28	Review of Solar Thermal Storage Techniques and Associated Heat Transfer Technologies. *Proceedings of the IEEE*, **2012**, 100, 525-538	14.3	60
27	Corrosion of metal and polymer containers for use in PCM cold storage. *Applied Energy*, **2013**, 109, 449-453	10.7	59
26	Experimental analysis of hydroquinone used as phase change material (PCM) to be applied in solar cooling refrigeration. *International Journal of Refrigeration*, **2014**, 39, 95-103	3.8	59
25	Thermal analysis of a low temperature storage unit using phase change materials without refrigeration system. *International Journal of Refrigeration*, **2012**, 35, 1709-1714	3.8	59
24	Material selection and testing for thermal energy storage in solar cooling. *Renewable Energy*, **2013**, 57, 366-371	8.1	59
23	Stratification analysis in packed bed thermal energy storage systems. *Applied Energy*, **2013**, 109, 476-487	10.7	50
22	The location as an energy efficiency and renewable energy supply measure for data centres in Europe. *Applied Energy*, **2015**, 140, 338-349	10.7	46
21	Energy management and CO2 mitigation using phase change materials (PCM) for thermal energy storage (TES) in cold storage and transport. *International Journal of Refrigeration*, **2014**, 42, 26-35	3.8	46
20	Embodied energy in thermal energy storage (TES) systems for high temperature applications. *Applied Energy*, **2015**, 137, 793-799	10.7	43
19	Comparative study of different numerical models of packed bed thermal energy storage systems. *Applied Thermal Engineering*, **2013**, 50, 384-392	5.8	43

18	Experimental analysis of the effectiveness of a high temperature thermal storage tank for solar cooling applications. *Applied Thermal Engineering*, **2013**, 54, 521-527	5.8	42
17	CO 2 mitigation accounting for Thermal Energy Storage (TES) case studies. *Applied Energy*, **2015**, 155, 365-377	10.7	41
16	Overview of direct air free cooling and thermal energy storage potential energy savings in data centres. *Applied Thermal Engineering*, **2015**, 85, 100-110	5.8	40
15	Experimental analysis of the effective thermal conductivity enhancement of PCM using finned tubes in high temperature bulk tanks. *Applied Thermal Engineering*, **2018**, 142, 736-744	5.8	37
14	Experimental study on the selection of phase change materials for low temperature applications. *Renewable Energy*, **2013**, 57, 130-136	8.1	37
13	Thermal Energy Storage Implementation Using Phase Change Materials for Solar Cooling and Refrigeration Applications. *Energy Procedia*, **2012**, 30, 947-956	2.3	35
12	Experimental and numerical analysis for potential heat reuse in liquid cooled data centres. *Energy Conversion and Management*, **2016**, 112, 135-145	10.6	33
11	Active phase change material package for thermal protection of ice cream containers. *International Journal of Refrigeration*, **2013**, 36, 102-109	3.8	30
10	Design and economic analysis of liquid cooled data centres for waste heat recovery: A case study for an indoor swimming pool. *Sustainable Cities and Society*, **2018**, 36, 185-203	10.1	30
9	Waste heat recovery from urban air cooled data centres to increase energy efficiency of district heating networks. *Sustainable Cities and Society*, **2019**, 45, 522-542	10.1	25
8	Temperature distribution and heat losses in molten salts tanks for CSP plants. *Solar Energy*, **2016**, 135, 518-526	6.8	23
7	Mathematical modeling of a PCM storage tank in a solar cooling plant. *Solar Energy*, **2013**, 93, 1-10	6.8	23
6	Experimental analysis of a car incorporating phase change material. *Journal of Energy Storage*, **2016** , 7, 131-135	7.8	23
5	Experimental and numerical analysis of a chilly bin incorporating phase change material. *Applied Thermal Engineering*, **2013**, 58, 61-67	5.8	17
4	Experimental and numerical analysis of the air management in a data centre in Spain. *Energy and Buildings*, **2016**, 116, 553-561	7	16
3	Thermal energy storage for renewable heating and cooling systems **2016**, 139-179		6
2	Energy model optimization for thermal energy storage system integration in data centres. *Journal of Energy Storage*, **2016**, 8, 129-141	7.8	4
1	Energy Model for Thermal Energy Storage System Management Integration in Data Centres. *Energy Procedia*, **2015**, 73, 254-262	2.3	3