

Eduard OrÃ³

List of Publications by Year in descending order

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36
papers

2,961
citations

185998

28
h-index

377514

34
g-index

36
all docs

36
docs citations

36
times ranked

2648
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on phase change materials (PCMs) for cold thermal energy storage applications. Applied Energy, 2012, 99, 513-533.	5.1	852
2	Energy efficiency and renewable energy integration in data centres. Strategies and modelling review. Renewable and Sustainable Energy Reviews, 2015, 42, 429-445.	8.2	185
3	Overview of thermal energy storage (TES) potential energy savings and climate change mitigation in Spain and Europe. Applied Energy, 2011, 88, 2764-2774.	5.1	154
4	Comparative life cycle assessment of thermal energy storage systems for solar power plants. Renewable Energy, 2012, 44, 166-173.	4.3	134
5	Improving thermal performance of freezers using phase change materials. International Journal of Refrigeration, 2012, 35, 984-991.	1.8	113
6	Numerical modelling of ventilated facades: A review. Renewable and Sustainable Energy Reviews, 2013, 22, 539-549.	8.2	94
7	Corrosion of metal and polymer containers for use in PCM cold storage. Applied Energy, 2013, 109, 449-453.	5.1	81
8	Thermal analysis of including phase change material in a domestic hot water cylinder. Applied Thermal Engineering, 2011, 31, 3938-3945.	3.0	80
9	Thermal analysis of a low temperature storage unit using phase change materials without refrigeration system. International Journal of Refrigeration, 2012, 35, 1709-1714.	1.8	77
10	Stratification analysis in packed bed thermal energy storage systems. Applied Energy, 2013, 109, 476-487.	5.1	71
11	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.	1.8	71
12	Review of Solar Thermal Storage Techniques and Associated Heat Transfer Technologies. Proceedings of the IEEE, 2012, 100, 525-538.	16.4	70
13	Material selection and testing for thermal energy storage in solar cooling. Renewable Energy, 2013, 57, 366-371.	4.3	69
14	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.	1.8	64
15	The location as an energy efficiency and renewable energy supply measure for data centres in Europe. Applied Energy, 2015, 140, 338-349.	5.1	64
16	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.	3.0	62
17	Comparative study of different numerical models of packed bed thermal energy storage systems. Applied Thermal Engineering, 2013, 50, 384-392.	3.0	60
18	CO2 mitigation accounting for Thermal Energy Storage (TES) case studies. Applied Energy, 2015, 155, 365-377.	5.1	58

#	ARTICLE	IF	CITATIONS
19	Embodied energy in thermal energy storage (TES) systems for high temperature applications. Applied Energy, 2015, 137, 793-799.	5.1	56
20	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.	5.1	56
21	Overview of direct air free cooling and thermal energy storage potential energy savings in data centres. Applied Thermal Engineering, 2015, 85, 100-110.	3.0	52
22	Experimental analysis of the effectiveness of a high temperature thermal storage tank for solar cooling applications. Applied Thermal Engineering, 2013, 54, 521-527.	3.0	51
23	Experimental study on the selection of phase change materials for low temperature applications. Renewable Energy, 2013, 57, 130-136.	4.3	47
24	Experimental and numerical analysis for potential heat reuse in liquid cooled data centres. Energy Conversion and Management, 2016, 112, 135-145.	4.4	46
25	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.	5.1	46
26	Active phase change material package for thermal protection of ice cream containers. International Journal of Refrigeration, 2013, 36, 102-109.	1.8	44
27	Thermal Energy Storage Implementation Using Phase Change Materials for Solar Cooling and Refrigeration Applications. Energy Procedia, 2012, 30, 947-956.	1.8	43
28	Temperature distribution and heat losses in molten salts tanks for CSP plants. Solar Energy, 2016, 135, 518-526.	2.9	39
29	Experimental analysis of a car incorporating phase change material. Journal of Energy Storage, 2016, 7, 131-135.	3.9	26
30	Experimental and numerical analysis of the air management in a data centre in Spain. Energy and Buildings, 2016, 116, 553-561.	3.1	26
31	Experimental and numerical analysis of a chilly bin incorporating phase change material. Applied Thermal Engineering, 2013, 58, 61-67.	3.0	24
32	Mathematical modeling of a PCM storage tank in a solar cooling plant. Solar Energy, 2013, 93, 1-10.	2.9	24
33	Energy model optimization for thermal energy storage system integration in data centres. Journal of Energy Storage, 2016, 8, 129-141.	3.9	12
34	Thermal energy storage for renewable heating and cooling systems. , 2016, , 139-179.		7
35	Energy Model for Thermal Energy Storage System Management Integration in Data Centres. Energy Procedia, 2015, 73, 254-262.	1.8	3
36	Methodology for EBSILON simulation studies of on-site generation CHP systems for data centre. , 2016, , ,		0