

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

2,544  
citations

28  
h-index

45  
g-index

45  
ext. papers

2,958  
ext. citations

8.5  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
45	Thermal energy storage (TES) for industrial waste heat (IWH) recovery: A review. <i>Applied Energy</i> , <b>2016</b> , 179, 284-301	10.7	278
44	Industrial waste heat recovery technologies: An economic analysis of heat transformation technologies. <i>Applied Energy</i> , <b>2015</b> , 151, 157-167	10.7	257
43	Low carbon and low embodied energy materials in buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 23, 536-542	16.2	201
42	Experimental evaluation at pilot plant scale of multiple PCMs (cascaded) vs. single PCM configuration for thermal energy storage. <i>Renewable Energy</i> , <b>2015</b> , 83, 729-736	8.1	116
41	Review of the T-history method to determine thermophysical properties of phase change materials (PCM). <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 26, 425-436	16.2	113
40	Study on differential scanning calorimetry analysis with two operation modes and organic and inorganic phase change material (PCM). <i>Thermochimica Acta</i> , <b>2013</b> , 553, 23-26	2.9	103
39	Mapping and discussing Industrial Waste Heat (IWH) potentials for different countries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 847-855	16.2	96
38	Improving thermal performance of freezers using phase change materials. <i>International Journal of Refrigeration</i> , <b>2012</b> , 35, 984-991	3.8	90
37	Advances in the valorization of waste and by-product materials as thermal energy storage (TES) materials. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 59, 763-783	16.2	83
36	Review on system and materials requirements for high temperature thermal energy storage. Part 1: General requirements. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 75, 1320-1338	16.2	82
35	Methods to estimate the industrial waste heat potential of regions – A categorization and literature review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 38, 164-171	16.2	75
34	Corrosion of metal and metal alloy containers in contact with phase change materials (PCM) for potential heating and cooling applications. <i>Applied Energy</i> , <b>2014</b> , 125, 238-245	10.7	74
33	Unconventional experimental technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1399-1414	16.2	65
32	Corrosion of metals and salt hydrates used for thermochemical energy storage. <i>Renewable Energy</i> , <b>2015</b> , 75, 519-523	8.1	64
31	Experimental characterization of a solid industrial by-product as material for high temperature sensible thermal energy storage (TES). <i>Applied Energy</i> , <b>2014</b> , 113, 1261-1268	10.7	64
30	Measurement of enthalpy curves of phase change materials via DSC and T-History: When are both methods needed to estimate the behaviour of the bulk material in applications?. <i>Thermochimica Acta</i> , <b>2014</b> , 596, 79-88	2.9	62
29	Corrosion of metal and polymer containers for use in PCM cold storage. <i>Applied Energy</i> , <b>2013</b> , 109, 449-453	5.7	59

28	Experimental analysis of hydroquinone used as phase change material (PCM) to be applied in solar cooling refrigeration. <i>International Journal of Refrigeration</i> , <b>2014</b> , 39, 95-103	3.8	59
27	Thermal analysis of a low temperature storage unit using phase change materials without refrigeration system. <i>International Journal of Refrigeration</i> , <b>2012</b> , 35, 1709-1714	3.8	59
26	Materials and system requirements of high temperature thermal energy storage systems: A review. Part 2: Thermal conductivity enhancement techniques. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 60, 1584-1601	16.2	48
25	Energy management and CO2 mitigation using phase change materials (PCM) for thermal energy storage (TES) in cold storage and transport. <i>International Journal of Refrigeration</i> , <b>2014</b> , 42, 26-35	3.8	46
24	Embodied energy in thermal energy storage (TES) systems for high temperature applications. <i>Applied Energy</i> , <b>2015</b> , 137, 793-799	10.7	43
23	CO 2 mitigation accounting for Thermal Energy Storage (TES) case studies. <i>Applied Energy</i> , <b>2015</b> , 155, 365-377	10.7	41
22	Health hazard, cycling and thermal stability as key parameters when selecting a suitable phase change material (PCM). <i>Thermochimica Acta</i> , <b>2016</b> , 627-629, 39-47	2.9	41
21	Affordable construction towards sustainable buildings: review on embodied energy in building materials. <i>Current Opinion in Environmental Sustainability</i> , <b>2013</b> , 5, 229-236	7.2	36
20	Two-tank molten salts thermal energy storage system for solar power plants at pilot plant scale: Lessons learnt and recommendations for its design, start-up and operation. <i>Renewable Energy</i> , <b>2018</b> , 121, 236-248	8.1	35
19	Thermal Energy Storage Implementation Using Phase Change Materials for Solar Cooling and Refrigeration Applications. <i>Energy Procedia</i> , <b>2012</b> , 30, 947-956	2.3	35
18	Experimental Evaluation of a Paraffin as Phase Change Material for Thermal Energy Storage in Laboratory Equipment and in a Shell-and-Tube Heat Exchanger. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 112	2.6	33
17	Methodologies to estimate industrial waste heat potential by transferring key figures: A case study for Spain. <i>Applied Energy</i> , <b>2016</b> , 169, 866-873	10.7	26
16	Temperature distribution and heat losses in molten salts tanks for CSP plants. <i>Solar Energy</i> , <b>2016</b> , 135, 518-526	6.8	23
15	Enthalpy-temperature plots to compare calorimetric measurements of phase change materials at different sample scales. <i>Journal of Energy Storage</i> , <b>2018</b> , 15, 32-38	7.8	22
14	New methodology developed for the differential scanning calorimetry analysis of polymeric matrixes incorporating phase change materials. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 085606	2	20
13	Influence of the heat transfer fluid in a CSP plant molten salts charging process. <i>Renewable Energy</i> , <b>2017</b> , 113, 148-158	8.1	19
12	Experimental analysis of charging and discharging processes, with parallel and counter flow arrangements, in a molten salts high temperature pilot plant scale setup. <i>Applied Energy</i> , <b>2016</b> , 178, 394-403	10.7	17
11	Corrosion Test of Salt Hydrates and Vessel Metals for Thermochemical Energy Storage. <i>Energy Procedia</i> , <b>2014</b> , 48, 431-435	2.3	16

10	Thermal performance evaluation of bischofite at pilot plant scale. <i>Applied Energy</i> , <b>2015</b> , 155, 826-833	10.7	12
9	Estimating the industrial waste heat recovery potential based on CO2 emissions in the European non-metallic mineral industry. <i>Energy Efficiency</i> , <b>2018</b> , 11, 427-443	3	12
8	IEA SHC Task 42 / ECES Annex 29 A Simple Tool for the Economic Evaluation of Thermal Energy Storages. <i>Energy Procedia</i> , <b>2016</b> , 91, 197-206	2.3	11
7	Industrial waste materials and by-products as thermal energy storage (TES) materials: A review <b>2016</b> ,		3
6	Introduction to thermal energy storage systems <b>2021</b> , 1-33		3
5	Environmental Approach <b>2018</b> , 277-295		2
4	Waste heat recovery using thermal energy storage <b>2021</b> , 639-653		0
3	Static Concept at University of Lleida <b>2018</b> , 131-156		
2	TES Materials: Embodied Energy and CO2 Footprint <b>2015</b> , 1-9		
1	Heat Transfer Enhancement for Latent Heat Storage Components <b>2022</b> , 675-693		