

Laia Mir

List of Publications by Year in Descending Order

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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	Heat Transfer Enhancement for Latent Heat Storage Components 2022 , 675-693		
44	Introduction to thermal energy storage systems 2021 , 1-33		3
43	Waste heat recovery using thermal energy storage 2021 , 639-653		0
42	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> , 2018 , 121, 236-248	8.1	35
41	Estimating the industrial waste heat recovery potential based on CO2 emissions in the European non-metallic mineral industry. <i>Energy Efficiency</i> , 2018 , 11, 427-443	3	12
40	Static Concept at University of Lleida 2018 , 131-156		
39	Environmental Approach 2018 , 277-295		2
38	Enthalpy-temperature plots to compare calorimetric measurements of phase change materials at different sample scales. <i>Journal of Energy Storage</i> , 2018 , 15, 32-38	7.8	22
37	Influence of the heat transfer fluid in a CSP plant molten salts charging process. <i>Renewable Energy</i> , 2017 , 113, 148-158	8.1	19
36	Review on system and materials requirements for high temperature thermal energy storage. Part 1: General requirements. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 1320-1338	16.2	82
35	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> , 2016 , 178, 394-403	10.7	17
34	Temperature distribution and heat losses in molten salts tanks for CSP plants. <i>Solar Energy</i> , 2016 , 135, 518-526	6.8	23
33	Advances in the valorization of waste and by-product materials as thermal energy storage (TES) materials. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 59, 763-783	16.2	83
32	Methodologies to estimate industrial waste heat potential by transferring key figures: A case study for Spain. <i>Applied Energy</i> , 2016 , 169, 866-873	10.7	26
31	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> , 2016 , 60, 1584-1601	16.2	48
30	Health hazard, cycling and thermal stability as key parameters when selecting a suitable phase change material (PCM). <i>Thermochimica Acta</i> , 2016 , 627-629, 39-47	2.9	41
29	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> , 2016 , 6, 112	2.6	33

28	Thermal energy storage (TES) for industrial waste heat (IWH) recovery: A review. <i>Applied Energy</i> , 2016 , 179, 284-301	10.7	278
27	Industrial waste materials and by-products as thermal energy storage (TES) materials: A review 2016 ,		3
26	IEA SHC Task 42 / ECES Annex 29 A Simple Tool for the Economic Evaluation of Thermal Energy Storages. <i>Energy Procedia</i> , 2016 , 91, 197-206	2.3	11
25	Experimental evaluation at pilot plant scale of multiple PCMs (cascaded) vs. single PCM configuration for thermal energy storage. <i>Renewable Energy</i> , 2015 , 83, 729-736	8.1	116
24	Thermal performance evaluation of bischofite at pilot plant scale. <i>Applied Energy</i> , 2015 , 155, 826-833	10.7	12
23	Mapping and discussing Industrial Waste Heat (IWH) potentials for different countries. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 51, 847-855	16.2	96
22	CO ₂ mitigation accounting for Thermal Energy Storage (TES) case studies. <i>Applied Energy</i> , 2015 , 155, 365-377	10.7	41
21	Unconventional experimental technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 1399-1414	16.2	65
20	Corrosion of metals and salt hydrates used for thermochemical energy storage. <i>Renewable Energy</i> , 2015 , 75, 519-523	8.1	64
19	TES Materials: Embodied Energy and CO ₂ Footprint 2015 , 1-9		
18	Industrial waste heat recovery technologies: An economic analysis of heat transformation technologies. <i>Applied Energy</i> , 2015 , 151, 157-167	10.7	257
17	Embodied energy in thermal energy storage (TES) systems for high temperature applications. <i>Applied Energy</i> , 2015 , 137, 793-799	10.7	43
16	Methods to estimate the industrial waste heat potential of regions A categorization and literature review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 38, 164-171	16.2	75
15	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> , 2014 , 596, 79-88	2.9	62
14	Energy management and CO ₂ mitigation using phase change materials (PCM) for thermal energy storage (TES) in cold storage and transport. <i>International Journal of Refrigeration</i> , 2014 , 42, 26-35	3.8	46
13	Experimental characterization of a solid industrial by-product as material for high temperature sensible thermal energy storage (TES). <i>Applied Energy</i> , 2014 , 113, 1261-1268	10.7	64
12	Corrosion of metal and metal alloy containers in contact with phase change materials (PCM) for potential heating and cooling applications. <i>Applied Energy</i> , 2014 , 125, 238-245	10.7	74
11	Corrosion Test of Salt Hydrates and Vessel Metals for Thermochemical Energy Storage. <i>Energy Procedia</i> , 2014 , 48, 431-435	2.3	16

10	Experimental analysis of hydroquinone used as phase change material (PCM) to be applied in solar cooling refrigeration. <i>International Journal of Refrigeration</i> , 2014 , 39, 95-103	3.8	59
9	Review of the T-history method to determine thermophysical properties of phase change materials (PCM). <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 26, 425-436	16.2	113
8	Affordable construction towards sustainable buildings: review on embodied energy in building materials. <i>Current Opinion in Environmental Sustainability</i> , 2013 , 5, 229-236	7.2	36
7	Corrosion of metal and polymer containers for use in PCM cold storage. <i>Applied Energy</i> , 2013 , 109, 449-453	13.7	59
6	Study on differential scanning calorimetry analysis with two operation modes and organic and inorganic phase change material (PCM). <i>Thermochimica Acta</i> , 2013 , 553, 23-26	2.9	103
5	Low carbon and low embodied energy materials in buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 23, 536-542	16.2	201
4	Improving thermal performance of freezers using phase change materials. <i>International Journal of Refrigeration</i> , 2012 , 35, 984-991	3.8	90
3	Thermal analysis of a low temperature storage unit using phase change materials without refrigeration system. <i>International Journal of Refrigeration</i> , 2012 , 35, 1709-1714	3.8	59
2	Thermal Energy Storage Implementation Using Phase Change Materials for Solar Cooling and Refrigeration Applications. <i>Energy Procedia</i> , 2012 , 30, 947-956	2.3	35
1	New methodology developed for the differential scanning calorimetry analysis of polymeric matrixes incorporating phase change materials. <i>Measurement Science and Technology</i> , 2012 , 23, 085606	2	20