

Jaume Gasia

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,409
citations

394421

19
h-index

642732

23
g-index

28
all docs

28
docs citations

28
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal energy storage (TES) for industrial waste heat (IWH) recovery: A review. <i>Applied Energy</i> , 2016, 179, 284-301.	10.1	419
2	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.	8.9	154
3	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.	16.4	107
4	Experimental evaluation of the use of fins and metal wool as heat transfer enhancement techniques in a latent heat thermal energy storage system. <i>Energy Conversion and Management</i> , 2019, 184, 530-538.	9.2	66
5	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.	16.4	59
6	Experimental investigation of the effect of dynamic melting in a cylindrical shell-and-tube heat exchanger using water as PCM. <i>Applied Energy</i> , 2017, 185, 136-145.	10.1	59
7	Comparative study of the thermal performance of four different shell-and-tube heat exchangers used as latent heat thermal energy storage systems. <i>Renewable Energy</i> , 2017, 114, 934-944.	8.9	53
8	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.	8.9	50
9	Process integration of thermal energy storage systems – Evaluation methodology and case studies. <i>Applied Energy</i> , 2018, 230, 750-760.	10.1	47
10	Numerical simulation of a finned-tube LHTES system: influence of the mushy zone constant on the phase change behaviour. <i>Energy Procedia</i> , 2017, 126, 517-524.	1.8	45
11	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.	2.5	43
12	Evaluation of energy density as performance indicator for thermal energy storage at material and system levels. <i>Applied Energy</i> , 2019, 235, 954-962.	10.1	40
13	Phase Change Material Selection for Thermal Processes Working under Partial Load Operating Conditions in the Temperature Range between 120 and 200 °C. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 722.	2.5	39
14	Influence of the heat transfer fluid in a CSP plant molten salts charging process. <i>Renewable Energy</i> , 2017, 113, 148-158.	8.9	36
15	Use of partial load operating conditions for latent thermal energy storage management. <i>Applied Energy</i> , 2018, 216, 234-242.	10.1	29
16	Numerical analysis of a latent heat thermal energy storage system under partial load operating conditions. <i>Renewable Energy</i> , 2018, 128, 350-361.	8.9	25
17	Influence of the storage period between charge and discharge in a latent heat thermal energy storage system working under partial load operating conditions. <i>Applied Energy</i> , 2019, 235, 1389-1399.	10.1	25
18	Numerical study of dynamic melting enhancement in a latent heat thermal energy storage system. <i>Journal of Energy Storage</i> , 2020, 31, 101664.	8.1	23

#	ARTICLE	IF	CITATIONS
19	Experimental analysis of charging and discharging processes, with parallel and counter flow arrangements, in a molten salts high temperature pilot plant scale setup. Applied Energy, 2016, 178, 394-403.	10.1	22
20	Evaluation of the State of Charge of a Solid/Liquid Phase Change Material in a Thermal Energy Storage Tank. Energies, 2020, 13, 1425.	3.1	20
21	Life cycle assessment and life cycle costing of an innovative component for refrigeration units. Journal of Cleaner Production, 2021, 295, 126442.	9.3	16
22	IEA SHC Task 42 / ECES Annex 29 "A Simple Tool for the Economic Evaluation of Thermal Energy Storages. Energy Procedia, 2016, 91, 197-206.	1.8	15
23	Thermal performance evaluation of bischofite at pilot plant scale. Applied Energy, 2015, 155, 826-833.	10.1	14
24	Design and Start-Up of Two Pilot Plants for Molten Salts Storage Testing. , 2016, , .		2
25	Static Concept at University of Lleida. , 2018, , 131-156.		0