

Gerald Englmaier

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

424
citations

759233
12
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g-index

22
all docs

22
docs citations

22
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a revolving drum reactor for open-sorption heat storage processes. Applied Thermal Engineering, 2014, 70, 42-49.	6.0	67
2	Design and functionality of a segmented heat-storage prototype utilizing stable supercooling of sodium acetate trihydrate in a solar heating system. Applied Energy, 2018, 221, 522-534.	10.1	58
3	Experimental investigations on heat content of supercooled sodium acetate trihydrate by a simple heat loss method. Solar Energy, 2016, 139, 249-257.	6.1	42
4	Crystallization by local cooling of supercooled sodium acetate trihydrate composites for long-term heat storage. Energy and Buildings, 2018, 180, 159-171.	6.7	34
5	A solar combi-system utilizing stable supercooling of sodium acetate trihydrate for heat storage: Numerical performance investigation. Applied Energy, 2019, 242, 1108-1120.	10.1	31
6	Review on sodium acetate trihydrate in flexible thermal energy storages: Properties, challenges and applications. Journal of Energy Storage, 2021, 40, 102780.	8.1	25
7	Demonstration of a solar combi-system utilizing stable supercooling of sodium acetate trihydrate for heat storage. Applied Thermal Engineering, 2020, 166, 114647.	6.0	23
8	Thermal characteristics of a long-term heat storage unit with sodium acetate trihydrate. Applied Thermal Engineering, 2021, 187, 116563.	6.0	21
9	An Open Sorption Heat Storage Concept and Materials for Building Heat Supply. Energy Procedia, 2015, 73, 297-304.	1.8	19
10	Experimental investigation of a tank-in-tank heat storage unit utilizing stable supercooling of sodium acetate trihydrate. Applied Thermal Engineering, 2020, 167, 114709.	6.0	19
11	Laboratory Testing of Solar Combi System with Compact Long Term PCM Heat Storage. Energy Procedia, 2016, 91, 330-337.	1.8	15
12	Fluid dynamics simulations for an open-sorption heat storage drum reactor based on thermophysical kinetics and experimental observations. Applied Thermal Engineering, 2016, 107, 994-1007.	6.0	12
13	Experimental investigations on phase separation for different heights of sodium acetate water mixtures under different conditions. Applied Thermal Engineering, 2019, 148, 796-805.	6.0	12
14	Testing of PCM Heat Storage Modules with Solar Collectors as Heat Source. Energy Procedia, 2016, 91, 138-144.	1.8	11
15	Experimental Devices to Investigate the Long-Term Stability of Phase Change Materials under Application Conditions. Applied Sciences (Switzerland), 2020, 10, 7968.	2.5	11
16	Experimental and numerical study of a latent heat storage using sodium acetate trihydrate for short and long term applications. Journal of Energy Storage, 2022, 47, 103588.	8.1	10
17	Design optimization of a latent heat storage using sodium acetate trihydrate. Journal of Energy Storage, 2022, 52, 104798.	8.1	5
18	Characterisation of a Rotating Adsorber Designed for Thermochemical Heat Storage Processes. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
19	Thermal Performance Analysis of a CPC Solar Collector Array with Series Connection to the Flat Plate Solar Collector Field in a Solar Heating Plant. , 2019, , .		2
20	Investigation on an air solar-driven open sorption system for comfort cooling. Solar Energy, 2022, 231, 57-71.	6.1	2
21	Simulation Study of a Novel Solar Thermal Seasonal Heat Storage System Based on Stable Supercooled PCM for Space Heating and Domestic Hot Water Supply of Single Family Houses. Applied Mechanics and Materials, 2019, 887, 650-658.	0.2	1
22	Performance Evaluation of a Demonstration System with PCM for Seasonal Heat Storage: Charge with Evacuated Tubular Collectors. , 2017, , .		0