Mark Dannemand

List of Publications by Year
in descending order

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22 papers	814 citations	516710 16 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	521 citing authors

#	Article	IF	Citations
1	Solidification behavior and thermal conductivity of bulk sodium acetate trihydrate composites with thickening agents and graphite. Solar Energy Materials and Solar Cells, 2016, 145, 287-295.	6.2	91
2	Long term thermal energy storage with stable supercooled sodium acetate trihydrate. Applied Thermal Engineering, 2015, 91, 671-678.	6.0	90
3	Thermal stratification built up in hot water tank with different inlet stratifiers. Solar Energy, 2017, 147, 414-425.	6.1	69
4	Performance of a demonstration solar PVT assisted heat pump system with cold buffer storage and domestic hot water storage tanks. Energy and Buildings, 2019, 188-189, 46-57.	6.7	69
5	Experimental investigations on prototype heat storage units utilizing stable supercooling of sodium acetate trihydrate mixtures. Applied Energy, 2016, 169, 72-80.	10.1	66
6	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
7	Experimental investigations on cylindrical latent heat storage units with sodium acetate trihydrate composites utilizing supercooling. Applied Energy, 2016, 177, 591-601.	10.1	56
8	Thermal Conductivity Enhancement of Sodium Acetate Trihydrate by Adding Graphite Powder and the Effect on Stability of Supercooling. Energy Procedia, 2015, 70, 249-256.	1.8	46
9	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
10	Simulation and optimization of a hybrid unglazed solar photovoltaic-thermal collector and heat pump system with two storage tanks. Energy Conversion and Management, 2020, 206, 112429.	9.2	41
11	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
12	Laboratory Test of a Prototype Heat Storage Module Based on Stable Supercooling of Sodium Acetate Trihydrate. Energy Procedia, 2015, 70, 172-181.	1.8	22
13	Thermal characteristics of a long-term heat storage unit with sodium acetate trihydrate. Applied Thermal Engineering, 2021, 187, 116563.	6.0	21
14	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
15	Thermal Behavior of a Heat Exchanger Module for Seasonal Heat Storage. Energy Procedia, 2012, 30, 244-254.	1.8	16
16	IEA SHC Task 42 / ECES Annex 29 â€“ Working Group B: Applications of Compact Thermal Energy Storage. Energy Procedia, 2016, 91, 231-245.	1.8	16
17	Porosity and density measurements of sodium acetate trihydrate for thermal energy storage. Applied Thermal Engineering, 2018, 131, 707-714.	6.0	14
18	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

#	Article	IF	Citations
19	Testing of PCM Heat Storage Modules with Solar Collectors as Heat Source. Energy Procedia, 2016, 91, 138-144.	1.8	11
20	Experimental Devices to Investigate the Long-Term Stability of Phase Change Materials under Application Conditions. Applied Sciences (Switzerland), 2020, 10, 7968.	2.5	11
21	Validation of a CFD Model Simulating Charge and Discharge of a Small Heat Storage Test Module based on a Sodium Acetate Water Mixture. Energy Procedia, 2014, 57, 2451-2460.	1.8	6
22	Laboratory Test of a Cylindrical Heat Storage Module with Water and Sodium Acetate Trihydrate. Energy Procedia, 2016, 91, 122-127.	1.8	4