

Jianhua Fan

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.

65
papers

1,133
citations

20
h-index

31
g-index

68
ext. papers

1,474
ext. citations

6.3
avg, IF

5.09
L-index

#	Paper	IF	Citations
65	Thermal behavior of a combi-storage in a solar-ground source heat pump system for a single-family house. <i>Energy and Buildings</i> , 2022 , 259, 111902	7	0
64	Underground solar energy storage via energy piles: An experimental study. <i>Applied Energy</i> , 2022 , 306, 118042	10.7	1
63	Thermal performance analysis of large-scale flat plate solar collectors and regional applicability in China. <i>Energy</i> , 2022 , 238, 121931	7.9	6
62	Regional Adaptability Analysis of Solar Roof Utilization Technologies in China. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2792	2.6	0
61	Design optimization of a latent heat storage using sodium acetate trihydrate. <i>Journal of Energy Storage</i> , 2022 , 52, 104798	7.8	0
60	Performance comparison of two water pit thermal energy storage (PTES) systems using energy, exergy, and stratification indicators. <i>Journal of Energy Storage</i> , 2022 , 52, 104947	7.8	1
59	Long-term thermal performance analysis of a large-scale water pit thermal energy storage. <i>Journal of Energy Storage</i> , 2022 , 52, 105001	7.8	0
58	Experimental and numerical study of a latent heat storage using sodium acetate trihydrate for short and long term applications. <i>Journal of Energy Storage</i> , 2021 , 103588	7.8	0
57	Thermal characteristics of a long-term heat storage unit with sodium acetate trihydrate. <i>Applied Thermal Engineering</i> , 2021 , 187, 116563	5.8	6
56	Experimental investigation on a combined solar and ground source heat pump system for a single-family house: Energy flow analysis and performance assessment. <i>Energy and Buildings</i> , 2021 , 241, 110958	7	1
55	Development of a new method to estimate thermal performance of multilayer radiant floor. <i>Journal of Building Engineering</i> , 2021 , 33, 101562	5.2	7
54	Influence of geometry on the thermal performance of water pit seasonal heat storages for solar district heating. <i>Building Simulation</i> , 2021 , 14, 579-599	3.9	1
53	Optimization of the flow resistance characteristics of the direct return flat plate solar collector field. <i>Solar Energy</i> , 2021 , 215, 388-402	6.8	4
52	Numerical study of a high-temperature thermal energy storage system with metal and inorganic salts as phase change materials. <i>Journal of Renewable and Sustainable Energy</i> , 2021 , 13, 044104	2.5	
51	Review on sodium acetate trihydrate in flexible thermal energy storages: Properties, challenges and applications. <i>Journal of Energy Storage</i> , 2021 , 40, 102780	7.8	5
50	Numerical investigations of long-term thermal performance of a large water pit heat storage. <i>Solar Energy</i> , 2021 , 224, 808-822	6.8	2
49	Economic optimization of auxiliary heat source for centralized solar district heating system in Tibetan Plateau, China. <i>Energy Conversion and Management</i> , 2021 , 243, 114385	10.6	1

48	Large-scale solar thermal systems in leading countries: A review and comparative study of Denmark, China, Germany and Austria. <i>Applied Energy</i> , 2020 , 270, 114997	10.7	48
47	Experimental and computational fluid dynamics investigations of tracking CPC solar collectors. <i>Solar Energy</i> , 2020 , 199, 26-38	6.8	6
46	Demonstration and optimization of a solar district heating system with ground source heat pumps. <i>Solar Energy</i> , 2020 , 202, 171-189	6.8	20
45	Demonstration of a solar combi-system utilizing stable supercooling of sodium acetate trihydrate for heat storage. <i>Applied Thermal Engineering</i> , 2020 , 166, 114647	5.8	14
44	Numerical and experimental study of an underground water pit for seasonal heat storage. <i>Renewable Energy</i> , 2020 , 150, 487-508	8.1	17
43	Experimental investigation of a tank-in-tank heat storage unit utilizing stable supercooling of sodium acetate trihydrate. <i>Applied Thermal Engineering</i> , 2020 , 167, 114709	5.8	7
42	A policy study on the mandatory installation of solar water heating systems [Lessons from the experience in China. <i>Solar Energy</i> , 2020 , 206, 614-627	6.8	5
41	Economic analysis and optimization of household solar heating technologies and systems. <i>Sustainable Energy Technologies and Assessments</i> , 2019 , 36, 100532	4.7	8
40	Feasibility study on solar district heating in China. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 108, 53-64	16.2	42
39	A solar combi-system utilizing stable supercooling of sodium acetate trihydrate for heat storage: Numerical performance investigation. <i>Applied Energy</i> , 2019 , 242, 1108-1120	10.7	17
38	Large-scale solar district heating plants in Danish smart thermal grid: Developments and recent trends. <i>Energy Conversion and Management</i> , 2019 , 189, 67-80	10.6	81
37	A comprehensive analysis on development and transition of the solar thermal market in China with more than 70% market share worldwide. <i>Energy</i> , 2019 , 174, 611-624	7.9	20
36	Economic analysis and optimization of combined solar district heating technologies and systems. <i>Energy</i> , 2019 , 186, 115886	7.9	21
35	Optimization of the coefficient of performance of a heat pump with an integrated storage tank [A computational fluid dynamics study. <i>Applied Thermal Engineering</i> , 2019 , 160, 114014	5.8	10
34	Solar Water Heating Systems Applied to High-Rise Buildings [Lessons from Experiences in China. <i>Energies</i> , 2019 , 12, 3078	3.1	4
33	Experimental investigations on phase separation for different heights of sodium acetate water mixtures under different conditions. <i>Applied Thermal Engineering</i> , 2019 , 148, 796-805	5.8	8
32	Design and functionality of a segmented heat-storage prototype utilizing stable supercooling of sodium acetate trihydrate in a solar heating system. <i>Applied Energy</i> , 2018 , 221, 522-534	10.7	34
31	Thermal performance assessment and improvement of a solar domestic hot water tank with PCM in the mantle. <i>Energy and Buildings</i> , 2018 , 172, 10-21	7	30

30	Thermo-economic optimization of a hybrid solar district heating plant with flat plate collectors and parabolic trough collectors in series. <i>Energy Conversion and Management</i> , 2018 , 165, 92-101	10.6	76
29	Analysis and validation of a quasi-dynamic model for a solar collector field with flat plate collectors and parabolic trough collectors in series for district heating. <i>Energy</i> , 2018 , 142, 130-138	7.9	33
28	A Comprehensive Approach for Modelling Horizontal Diffuse Radiation, Direct Normal Irradiance and Total Tilted Solar Radiation Based on Global Radiation under Danish Climate Conditions. <i>Energies</i> , 2018 , 11, 1315	3.1	6
27	Modelling of a thermally activated building system (TABS) combined with free-hanging acoustic ceiling units using computational fluid dynamics (CFD). <i>Building Simulation</i> , 2018 , 11, 315-324	3.9	8
26	Crystallization by local cooling of supercooled sodium acetate trihydrate composites for long-term heat storage. <i>Energy and Buildings</i> , 2018 , 180, 159-171	7	19
25	Annual measured and simulated thermal performance analysis of a hybrid solar district heating plant with flat plate collectors and parabolic trough collectors in series. <i>Applied Energy</i> , 2017 , 205, 417-427	10.7	34
24	Experimental and Theoretic Investigations of Thermal Behavior of a Seasonal Water Pit Heat Storage 2017 ,		6
23	Experimental investigations on prototype heat storage units utilizing stable supercooling of sodium acetate trihydrate mixtures. <i>Applied Energy</i> , 2016 , 169, 72-80	10.7	51
22	Simulation and optimization study on a solar space heating system combined with a low temperature ASHP for single family rural residential houses in Beijing. <i>Energy and Buildings</i> , 2016 , 126, 2-13	7	28
21	TfEs 10000 m ² CSP + Flat Plate Solar Collector Plant - Cost-Performance Optimization of the Design. <i>Energy Procedia</i> , 2016 , 91, 312-316	2.3	9
20	Experimental investigations on heat content of supercooled sodium acetate trihydrate by a simple heat loss method. <i>Solar Energy</i> , 2016 , 139, 249-257	6.8	30
19	Laboratory Testing of Solar Combi System with Compact Long Term PCM Heat Storage. <i>Energy Procedia</i> , 2016 , 91, 330-337	2.3	9
18	Testing of PCM Heat Storage Modules with Solar Collectors as Heat Source. <i>Energy Procedia</i> , 2016 , 91, 138-144	2.3	10
17	A new Laplace transformation method for dynamic testing of solar collectors. <i>Renewable Energy</i> , 2015 , 75, 448-458	8.1	18
16	Thermal Conductivity Enhancement of Sodium Acetate Trihydrate by Adding Graphite Powder and the Effect on Stability of Supercooling. <i>Energy Procedia</i> , 2015 , 70, 249-256	2.3	36
15	Laboratory Test of a Prototype Heat Storage Module Based on Stable Supercooling of Sodium Acetate Trihydrate. <i>Energy Procedia</i> , 2015 , 70, 172-181	2.3	17
14	Development of a Hot Water Tank Simulation Program with Improved Prediction of Thermal Stratification in the Tank. <i>Energy Procedia</i> , 2015 , 70, 193-202	2.3	20
13	Testing, Development and Demonstration of Large Scale Solar District Heating Systems. <i>Energy Procedia</i> , 2015 , 70, 568-573	2.3	11

12	Validation of a CFD Model Simulating Charge and Discharge of a Small Heat Storage Test Module based on a Sodium Acetate Water Mixture. <i>Energy Procedia</i> , 2014 , 57, 2451-2460	2.3	5
11	Investigations of Intelligent Solar Heating Systems for Single Family House. <i>Energy Procedia</i> , 2014 , 48, 1-8	2.3	6
10	An improved dynamic test method for solar collectors. <i>Solar Energy</i> , 2012 , 86, 1838-1848	6.8	28
9	Thermal Behavior of a Heat Exchanger Module for Seasonal Heat Storage. <i>Energy Procedia</i> , 2012 , 30, 244-254	2.3	12
8	Development of Seasonal Heat Storage based on Stable Supercooling of a Sodium Acetate Water Mixture. <i>Energy Procedia</i> , 2012 , 30, 260-269	2.3	17
7	Thermal stratification in a hot water tank established by heat loss from the tank. <i>Solar Energy</i> , 2012 , 86, 3460-3469	6.8	62
6	Buoyancy driven flow in a hot water tank due to standby heat loss. <i>Solar Energy</i> , 2012 , 86, 3438-3449	6.8	30
5	Towards Seasonal Heat Storage Based on Stable Super Cooling of Sodium Acetate Trihydrate 2010 ,		5
4	Buoyancy Effects on Thermal Behavior of a Flat-Plate Solar Collector. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008 , 130,	2.3	24
3	Flow distribution in a solar collector panel with horizontally inclined absorber strips. <i>Solar Energy</i> , 2007 , 81, 1501-1511	6.8	71
2	A study on intermittency phenomena in the impeller stream via digital particle image velocimetry (DPIV). <i>Chemical Engineering Journal</i> , 2004 , 102, 25-33	14.7	7
1	Spatio-temporal analysis of macro-instability in a stirred vessel via digital particle image velocimetry (DPIV). <i>Chemical Engineering Science</i> , 2004 , 59, 1863-1873	4.4	15