

Talal Alqahtani

List of Publications by Year in descending order

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papers

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687363

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28
all docs

28
docs citations

28
times ranked

389
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of an evacuated tube solar collector incorporating nano-enhanced PCM as a thermal booster. <i>Applied Thermal Engineering</i> , 2020, 180, 115831.	6.0	87
2	Numerical study of an Evacuated Tube Solar Collector incorporating a Nano-PCM as a latent heat storage system. <i>Case Studies in Thermal Engineering</i> , 2021, 24, 100859.	5.7	83
3	Performance analysis of a thermal energy storage system based on paired metal hydrides for concentrating solar power plants. <i>Applied Thermal Engineering</i> , 2018, 144, 1017-1029.	6.0	47
4	Thermal performance analysis of a metal hydride reactor encircled by a phase change material sandwich bed. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23076-23092.	7.1	46
5	Experimental investigation of a solar-heated direct contact membrane distillation system using evacuated tube collectors. <i>Desalination</i> , 2020, 487, 114497.	8.2	45
6	State-of-the-art ionic liquid & ionanofluids incorporated with advanced nanomaterials for solar energy applications. <i>Journal of Molecular Liquids</i> , 2021, 336, 116563.	4.9	41
7	A comprehensive review of heat transfer intensification methods for latent heat storage units. <i>Energy Storage</i> , 2021, 3, e127.	4.3	32
8	Experimental investigations on thermophysical properties of nano-enhanced phase change materials for thermal energy storage applications. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 7037-7044.	6.4	32
9	Enhancing the performance of a greenhouse drying system by using triple-flow solar air collector with nano-enhanced absorber coating. <i>Case Studies in Thermal Engineering</i> , 2022, 34, 102011.	5.7	31
10	Cyclic behaviors of a novel design of a metal hydride reactor encircled by cascaded phase change materials. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32285-32297.	7.1	29
11	Solar-heated submerged vacuum membrane distillation system with agitation techniques for desalination. <i>Separation and Purification Technology</i> , 2021, 256, 117855.	7.9	29
12	Numerical investigation of hybrid nanofluid with gyrotactic microorganism and multiple slip conditions through a porous rotating disk. <i>Waves in Random and Complex Media</i> , 0, , 1-16.	2.7	20
13	Numerical simulation of hybrid Casson nanofluid flow by the influence of magnetic dipole and gyrotactic microorganism. <i>Waves in Random and Complex Media</i> , 0, , 1-16.	2.7	19
14	Performance enhancement of a submerged vacuum membrane distillation (S-VMD) system using low-power ultrasound. <i>Journal of Membrane Science</i> , 2021, 621, 119004.	8.2	17
15	Experimental and numerical assessment of using coconut oil as a phase change material for unconditioned buildings. <i>International Journal of Energy Research</i> , 2020, 44, 5177-5196.	4.5	14
16	Pulsating nanofluid flow in a wavy bifurcating channel under partially active uniform magnetic field effects. <i>International Communications in Heat and Mass Transfer</i> , 2022, 133, 105938.	5.6	14
17	A TLBO-Tuned Neural Processor for Predicting Heating Load in Residential Buildings. <i>Sustainability</i> , 2022, 14, 5924.	3.2	12
18	Thermo-Optical Characterization of Therminol55 Based MXene/Al ₂ O ₃ Hybridized Nanofluid and New Correlations for Thermal Properties. <i>Nanomaterials</i> , 2022, 12, 1862.	4.1	10

#	ARTICLE	IF	CITATIONS
19	Numerical analysis of a built-in thermal storage system of metal hydride and nanoparticles enhanced phase change material and nanofluid. <i>International Journal of Energy Research</i> , 2021, 45, 5881-5893.	4.5	9
20	Experimental study of thermal energy battery working with nano-enhanced phase change material. <i>Case Studies in Thermal Engineering</i> , 2022, 34, 102051.	5.7	8
21	New model for PCM melting and solidification processes simulation. <i>Physica Scripta</i> , 2021, 96, 125214.	2.5	7
22	Parametric study of a metal hydride reactor with phase change materials and heat pipes. <i>International Journal of Energy Research</i> , 2022, 46, 4588-4598.	4.5	6
23	Numerical analysis of a time-dependent aligned MHD boundary layer flow of a hybrid nanofluid over a porous radiated stretching/shrinking surface. <i>Waves in Random and Complex Media</i> , 0, , 1-17.	2.7	6
24	Multiple Impinging Jet Cooling of a Wavy Surface by Using Double Porous Fins under Non-Uniform Magnetic Field. <i>Mathematics</i> , 2022, 10, 638.	2.2	5
25	An Empirical Analysis of Heat Expulsion and Pressure Drop Attribute in Helical Coil Tube Using Nanomaterials. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-8.	2.7	3
26	Features of energy transfer in buoyancy-driven unsteady flow of Maxwell fluid via Cattaneo-Christov theory. <i>Waves in Random and Complex Media</i> , 0, , 1-15.	2.7	2
27	Scrutiny of Solar Water Heating System Employing Supercritical Fluid. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-9.	1.1	1