

Talal Alqahtani

List of Publications by Year in descending order

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27
papers

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citations

687363

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28
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28
docs citations

28
times ranked

389
citing authors

#	ARTICLE	IF	CITATIONS
1	Parametric study of a metal hydride reactor with phase change materials and heat pipes. International Journal of Energy Research, 2022, 46, 4588-4598.	4.5	6
2	Experimental investigations on thermophysical properties of nano-enhanced phase change materials for thermal energy storage applications. AEJ - Alexandria Engineering Journal, 2022, 61, 7037-7044.	6.4	32
3	Multiple Impinging Jet Cooling of a Wavy Surface by Using Double Porous Fins under Non-Uniform Magnetic Field. Mathematics, 2022, 10, 638.	2.2	5
4	Pulsating nanofluid flow in a wavy bifurcating channel under partially active uniform magnetic field effects. International Communications in Heat and Mass Transfer, 2022, 133, 105938.	5.6	14
5	Enhancing the performance of a greenhouse drying system by using triple-flow solar air collector with nano-enhanced absorber coating. Case Studies in Thermal Engineering, 2022, 34, 102011.	5.7	31
6	Experimental study of thermal energy battery working with nano-enhanced phase change material. Case Studies in Thermal Engineering, 2022, 34, 102051.	5.7	8
7	A TLBO-Tuned Neural Processor for Predicting Heating Load in Residential Buildings. Sustainability, 2022, 14, 5924.	3.2	12
8	An Empirical Analysis of Heat Expulsion and Pressure Drop Attribute in Helical Coil Tube Using Nanomaterials. Journal of Nanomaterials, 2022, 2022, 1-8.	2.7	3
9	Thermo-Optical Characterization of Therminol55 Based MXene α Al ₂ O ₃ Hybridized Nanofluid and New Correlations for Thermal Properties. Nanomaterials, 2022, 12, 1862.	4.1	10
10	Scrutiny of Solar Water Heating System Employing Supercritical Fluid. Mathematical Problems in Engineering, 2022, 2022, 1-9.	1.1	1
11	Solar-heated submerged vacuum membrane distillation system with agitation techniques for desalination. Separation and Purification Technology, 2021, 256, 117855.	7.9	29
12	Numerical analysis of a built-in thermal storage system of metal hydride and nanoparticles enhanced phase change material and nanofluid. International Journal of Energy Research, 2021, 45, 5881-5893.	4.5	9
13	A comprehensive review of heat transfer intensification methods for latent heat storage units. Energy Storage, 2021, 3, e127.	4.3	32
14	Performance enhancement of a submerged vacuum membrane distillation (S-VMD) system using low-power ultrasound. Journal of Membrane Science, 2021, 621, 119004.	8.2	17
15	Numerical study of an Evacuated Tube Solar Collector incorporating a Nano-PCM as a latent heat storage system. Case Studies in Thermal Engineering, 2021, 24, 100859.	5.7	83
16	State-of-the-art ionic liquid & ionanofluids incorporated with advanced nanomaterials for solar energy applications. Journal of Molecular Liquids, 2021, 336, 116563.	4.9	41
17	New model for PCM melting and solidification processes simulation. Physica Scripta, 2021, 96, 125214.	2.5	7
18	Cyclic behaviors of a novel design of a metal hydride reactor encircled by cascaded phase change materials. International Journal of Hydrogen Energy, 2020, 45, 32285-32297.	7.1	29

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Experimental investigation of a solar-heated direct contact membrane distillation system using evacuated tube collectors. <i>Desalination</i> , 2020, 487, 114497.	8.2	45
22	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
23	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
24	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
25	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
26	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
27	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