

Hamdi Ayed

List of Publications by Year in descending order

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50
papers

671
citations

516561

16
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642610

23
g-index

51
all docs

51
docs citations

51
times ranked

281
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat transfer treatment of nanomaterial with considering turbulator effects. International Communications in Heat and Mass Transfer, 2022, 131, 105787.	2.9	40
2	PEM fuel cell cathode-side flow field design optimization based on multi-criteria analysis of liquid-slug dynamics. Journal of Industrial and Engineering Chemistry, 2021, 98, 397-412.	2.9	39
3	Inducing swirl flow inside the pipes of flat-plate solar collector by using multiple nozzles for enhancing thermal performance. Renewable Energy, 2021, 180, 1344-1357.	4.3	36
4	Energy and exergy and economic (3E) analysis of a two-stage organic Rankine cycle for single flash geothermal power plant exhaust exergy recovery. Case Studies in Thermal Engineering, 2021, 28, 101554.	2.8	36
5	Entropic analysis of a double helical tube heat exchanger including circular depressions on both inner and outer tube. Case Studies in Thermal Engineering, 2021, 26, 101053.	2.8	34
6	Thermal/frictional performance of spiral pipe with ring-shape depression used as in-pond heat exchanger. Solar Energy, 2021, 224, 742-756.	2.9	30
7	Simultaneous synthesis of H ₂ , O ₂ , and N ₂ via an innovatory energy system in Coronavirus pandemic time: Design, techno-economic assessment, and optimization approaches. International Journal of Hydrogen Energy, 2022, 47, 26038-26052.	3.8	28
8	Economic accounting and high-tech strategy for sustainable production: A case study of methanol production from CO ₂ hydrogenation. International Journal of Hydrogen Energy, 2022, 47, 25929-25944.	3.8	28
9	Design-eligibility study of solar thermal helically coiled heat exchanging system with annular dimples by irreversibility concept. Renewable Energy, 2022, 183, 369-384.	4.3	27
10	Evaluation of carbon stock in the sediment of two mangrove species, Avicennia marina and Rhizophora mucronata, growing in the Farasan Islands, Saudi Arabia. Oceanologia, 2020, 62, 200-213.	1.1	26
11	Thermo-economic analysis of working fluids for a ground source heat pump for domestic uses. Case Studies in Thermal Engineering, 2021, 27, 101330.	2.8	25
12	Hydrodynamics and mass transfer in a turbulent buoyant bubbly shear layer. AIChE Journal, 2007, 53, 2742-2753.	1.8	22
13	Common reed (Phragmites australis (Cav.) Trin. ex Steudel) as a candidate for predicting heavy metal contamination in Lake Burullus, Egypt: A biomonitoring approach. Ecological Engineering, 2020, 148, 105787.	1.6	22
14	An Integrated Mathematical Attitude Utilizing Fully Fuzzy BWM and Fuzzy WASPAS for Risk Evaluation in a SOFC. Mathematics, 2021, 9, 2328.	1.1	18
15	Helical tube-in-tube heat exchanger with corrugated inner tube and corrugated outer tube; experimental and numerical study. International Journal of Thermal Sciences, 2021, 170, 107139.	2.6	18
16	The parametric computation of nonlinear convection magnetohydrodynamic nanofluid flow with internal heating across a fixed and spinning disk. Waves in Random and Complex Media, 0, , 1-16.	1.6	17
17	Designing a system for battery thermal management: Cooling LIBs by nano-encapsulated phase change material. Case Studies in Thermal Engineering, 2022, 33, 101943.	2.8	17
18	Thermal, efficiency and power output evaluation of pyramid, hexagonal and conical forms as solar panel. Case Studies in Thermal Engineering, 2021, 27, 101232.	2.8	16

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19	Thermal-hydrodynamic and exergetic study of two-phase flow in helically coiled pipe with helical wire insert. <i>Case Studies in Thermal Engineering</i> , 2022, 30, 101718.	2.8	16
20	MHD natural convection nanofluid flow in a heat exchanger: Effects of Brownian motion and thermophoresis for nanoparticles distribution. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101394.	2.8	14
21	Heat and Mass Transfer of the Darcy-Forchheimer Casson Hybrid Nanofluid Flow due to an Extending Curved Surface. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-12.	1.5	14
22	Comparative transient simulation of a renewable energy system with hydrogen and battery energy storage for residential applications. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 26198-26208.	3.8	14
23	Experimental investigation on the thermo-hydraulic performance of air-water two-phase flow inside a horizontal circumferentially corrugated tube. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 6769-6783.	3.4	13
24	Seasonal potential of <i>Phragmites australis</i> in nutrient removal to eliminate the eutrophication in Lake Burullus, Egypt. <i>Journal of Freshwater Ecology</i> , 2020, 35, 135-155.	0.5	11
25	Prediction models based on soil properties for evaluating the heavy metal uptake into <i>Hordeum vulgare</i> L. grown in agricultural soils amended with different rates of sewage sludge. <i>International Journal of Environmental Health Research</i> , 2022, 32, 106-120.	1.3	11
26	Heat transfer improvement between a pair of heater and cooler inside an energy storage by using nano-encapsulated phase change material/water: A numerical modeling. <i>Case Studies in Thermal Engineering</i> , 2022, 30, 101770.	2.8	11
27	Melting Heat Transition in a Spinning Flow of Silver-Magnesium Oxide/Engine Oil Hybrid Nanofluid Using Parametric Estimation. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-13.	1.5	11
28	Observation the melting process of the phase change material inside a half-cylindrical with thermal non-equilibrium porous media: CFD simulation. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101496.	2.8	9
29	Modified Liu estimators in the linear regression model: An application to Tobacco data. <i>PLoS ONE</i> , 2021, 16, e0259991.	1.1	8
30	Investigation on effect of connection angle of Δ -shaped fin on charging and discharging process of PCM in vertical enclosure. <i>Case Studies in Thermal Engineering</i> , 2022, 33, 101908.	2.8	8
31	Heating a cold semi-annulus wall by MHD natural convection with nanofluid. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101569.	2.8	7
32	Thermal, hydraulic, exergetic and economic evaluation of a flat tube heat exchanger equipped with a plain and modified conical turbulator. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101587.	2.8	7
33	Receiving heat from a PCM tank by using natural convection of water and NEPCM: A simulation for LHTES application. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102123.	2.8	7
34	Temporal Potential of <i>Phragmites australis</i> as a Phytoremediator to Remove Ni and Pb from Water and Sediment in Lake Burullus, Egypt. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 106, 516-527.	1.3	6
35	Effects of land use and cultivation histories on the distribution of soil organic carbon stocks in the area of the Northern Nile Delta in Egypt. <i>Carbon Management</i> , 2020, 11, 341-354.	1.2	5
36	Analytical Approximate Solution of the Fractional Order Biological Population Model by Using Natural Transform. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-12.	1.5	4

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37	Modified Robust Ridge M-Estimators in Two-Parameter Ridge Regression Model. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-24.	0.6	3
38	The Neutrosophic Lognormal Model in Lifetime Data Analysis: Properties and Applications. <i>Journal of Function Spaces</i> , 2021, 2021, 1-9.	0.4	3
39	Using artificial neural network to optimize hydrogen solubility and evaluation of environmental condition effects. <i>International Journal of Low-Carbon Technologies</i> , 2022, 17, 80-89.	1.2	2
40	Effect of the Number of Nozzles of Swirl Flow Generator Utilized in Flat Plate Solar Collector: An Entropic Analysis. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-10.	1.4	2
41	Nonlinear Convective SiO ₂ and TiO ₂ Hybrid Nanofluid Flow over an Inclined Stretched Surface. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-11.	1.5	2
42	Comparative Study of Different Active Control Systems of High Rise Buildings under Seismic Excitation. <i>Periodica Polytechnica: Civil Engineering</i> , 2019, , .	0.6	1
43	NUMERICAL STUDY OF THE DIELECTRIC OMNIDIRECTIONAL VISIBLE MIRROR. <i>Progress in Electromagnetics Research M</i> , 2020, 91, 179-188.	0.5	1
44	Using natural convection mechanism of nanofluid for cooling an embedded hot plate in corner of a square enclosure: A numerical simulation. <i>Case Studies in Thermal Engineering</i> , 2022, 33, 101926.	2.8	1
45	Sensitivity of the Coefficients of the Closure Model of the Interfacial Transfer in Bubble Columns. <i>Mechanika</i> , 2021, 27, 22-30.	0.3	0
46	Rock masses stresses investigation based on overcoring with CSIRO cell test and 3D finite element modeling in Aqabat Al-Sulbat Road at Aseer Province, Saudi Arabia: Numerical approach. <i>Journal of Engineering Research</i> , 2021, 9, .	0.4	0
47	Irreversibility analysis of induced swirl flow inside the pipes of flat-plate solar collector using dual tangential nozzles. <i>International Journal of Low-Carbon Technologies</i> , 2022, 17, 222-232.	1.2	0
48	Modeling of nanomaterial transportation over a sheet with involving MHD effect. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	1.6	0
49	Modeling of nanomaterial transportation within an enclosure with imposing external magnetic source. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	1.6	0
50	Fractional Analysis of Dissipative Viscous Fluid Flow with Mixed Convection and Variable Viscosity. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-14.	1.5	0