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List of Publications by Year in descending order

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48
papers

1,935
citations

236612

25
h-index

253896

43
g-index

48
all docs

48
docs citations

48
times ranked

1438
citing authors

#	ARTICLE	IF	CITATIONS
1	Electro-magneto-hydrodynamic Eyring-Powell fluid flow through micro-parallel plates with heat transfer and non-Darcian effects. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 11642-11656.	1.2	4
2	Predicting the effects of environmental parameters on the spatio-temporal distribution of the droplets carrying coronavirus in public transport – A machine learning approach. <i>Chemical Engineering Journal</i> , 2022, 430, 132761.	6.6	40
3	Machine-Learning Enhanced Analysis of Mixed Biothermal Convection of Single Particle and Hybrid Nanofluids within a Complex Configuration. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8478-8494.	1.8	12
4	CFD simulation of thermal performance of hybrid oil-Cu-Al ₂ O ₃ nanofluid flowing through the porous receiver tube inside a finned parabolic trough solar collector. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101888.	1.7	14
5	Enhancement of heat transfer in solar collectors by vortex generation. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 1731-1750.	1.2	4
6	Numerical study on the hybrid nanofluid (Co ₃ O ₄ -Go/H ₂ O) flow over a circular elastic surface with non-Darcy medium: Application in solar energy. <i>Journal of Molecular Liquids</i> , 2022, 361, 119655.	2.3	68
7	Analysis of unsteady mixed convection of Cu-water nanofluid in an oscillatory, lid-driven enclosure using lattice Boltzmann method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2045-2061.	2.0	55
8	Abilities of porous materials for energy saving in advanced thermal systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2437-2452.	2.0	25
9	Numerical simulations of ultra-low-Re flow around two tandem airfoils in ground effect: isothermal and heated conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2063-2079.	2.0	1
10	Unsteady ultra-lean combustion of methane and biogas in a porous burner – An experimental study. <i>Applied Thermal Engineering</i> , 2021, 182, 116099.	3.0	32
11	A Machine Learning Approach to Predicting the Heat Convection and Thermodynamics of an External Flow of Hybrid Nanofluid. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	1.4	61
12	Energy and environmental enhancement of power generation units by means of zero-flow coolant strategy. <i>International Journal of Energy Research</i> , 2021, 45, 10064-10085.	2.2	5
13	Experimental study of a hemispherical three-dimensional solar collector operating with silver-water nanofluid. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 44, 101043.	1.7	21
14	On the Response of Ultralean Combustion of CH ₄ /H ₂ Blends in a Porous Burner to Fluctuations in Fuel Flow – an Experimental Investigation. <i>Energy & Fuels</i> , 2021, 35, 8909-8921.	2.5	13
15	A dynamic multi-objective optimization procedure for water cooling of a photovoltaic module. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101111.	1.7	20
16	Selecting the best nanofluid type for A photovoltaic thermal (PV/T) system based on reliability, efficiency, energy, economic, and environmental criteria. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 124, 351-358.	2.7	78
17	Prediction of the spread of Corona-virus carrying droplets in a bus - A computational based artificial intelligence approach. <i>Journal of Hazardous Materials</i> , 2021, 413, 125358.	6.5	57
18	Special topic on turbulent and multiphase flows. <i>Physics of Fluids</i> , 2021, 33, 090401.	1.6	1

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19	Modeling of natural-gas diffusion in oil-saturated tight porous media. <i>Fuel</i> , 2021, 300, 120999.	3.4	22
20	A method for improving the accuracy of numerical simulations of a photovoltaic panel. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101433.	1.7	8
21	Darcy–Brinkman–Forchheimer Model for Nano-Bioconvection Stratified MHD Flow through an Elastic Surface: A Successive Relaxation Approach. <i>Mathematics</i> , 2021, 9, 2514.	1.1	5
22	Measuring diffusion coefficients of gaseous propane in heavy oil at elevated temperatures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2633-2645.	2.0	20
23	Heat transfer enhancement in a flat plate solar collector with different flow path shapes using nanofluid. <i>Renewable Energy</i> , 2020, 146, 2316-2329.	4.3	224
24	CFD study of heat transfer and fluid flow in a parabolic trough solar receiver with internal annular porous structure and synthetic oil–Al ₂ O ₃ nanofluid. <i>Renewable Energy</i> , 2020, 145, 2598-2614.	4.3	151
25	A CFD investigation of the effect of non-Newtonian behavior of Cu–water nanofluids on their heat transfer and flow friction characteristics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2601-2621.	2.0	35
26	A numerical study on discrete combustion of polydisperse magnesium aero-suspensions. <i>Energy</i> , 2020, 194, 116872.	4.5	17
27	Modeling of cetane number of biodiesel from fatty acid methyl ester (FAME) information using GA-, PSO-, and HGAPSO- LSSVM models. <i>Renewable Energy</i> , 2020, 150, 924-934.	4.3	94
28	Numerical study on the application of biodiesel and bioethanol in a multiple injection diesel engine. <i>Renewable Energy</i> , 2020, 150, 1019-1029.	4.3	57
29	Enhancing the efficiency of a symmetric flat-plate solar collector via the use of rutile TiO ₂ -water nanofluids. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 40, 100783.	1.7	43
30	Quantifying Oil-Recovery Mechanisms During Natural-Gas Huff n Puff Experiments on Ultratight Core Plugs. , 2020, , .		1
31	Recent developments of advanced numerical heat transfer in porous media. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1489-1491.	2.0	6
32	Numerical simulation of the heterogeneous combustion of dust clouds containing polydisperse porous iron particles. <i>Energy</i> , 2020, 212, 118759.	4.5	3
33	Quantification of convective and diffusive transport during CO ₂ dissolution in oil: A numerical and analytical study. <i>Physics of Fluids</i> , 2020, 32, 085110.	1.6	32
34	Analysis of transport processes in a reacting flow of hybrid nanofluid around a bluff-body embedded in porous media using artificial neural network and particle swarm optimization. <i>Journal of Molecular Liquids</i> , 2020, 313, 113492.	2.3	67
35	Eccentricity effects of heat source inside a porous annulus on the natural convection heat transfer and entropy generation of Cu-water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2019, 109, 104367.	2.9	73
36	Entropy generation in the intake pipe of an internal combustion engine. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	9

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37	Combustion and emission characteristics of biomass derived biofuel, premixed in a diesel engine: A CFD study. <i>Renewable Energy</i> , 2019, 138, 79-89.	4.3	36
38	Numerical analysis of mixed convection of two-phase non-Newtonian nanofluid flow inside a partially porous square enclosure with a rotating cylinder. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 267-287.	2.0	124
39	Parallel processing of numerical simulation of two-phase flow in fractured reservoirs considering the effect of natural flow barriers using the streamline simulation method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 574-583.	2.5	23
40	The effect of different operational parameters on hydrogen rich syngas production from biomass gasification in a dual fluidized bed gasifier. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 126, 210-221.	1.8	45
41	Parametric investigation on biomass gasification in a fluidized bed gasifier and conceptual design of gasifier. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 127, 271-291.	1.8	45
42	Lattice Boltzmann method based on Dual-MRT model for three-dimensional natural convection and entropy generation in CuO-water nanofluid filled cuboid enclosure included with discrete active walls. <i>Computers and Mathematics With Applications</i> , 2018, 75, 1795-1813.	1.4	50
43	Volatization & combustion of biomass particles in random media: Mathematical modeling and analyze the effect of Lewis number. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 126, 232-238.	1.8	18
44	The effect of temperature dependent relative permeability on heavy oil recovery during hot water injection process using streamline-based simulation. <i>Applied Thermal Engineering</i> , 2018, 129, 106-116.	3.0	55
45	High-purity hydrogen production with in situ CO ₂ capture based on biomass gasification. <i>Fuel</i> , 2017, 202, 29-35.	3.4	72
46	Particle swarm optimization of thermal enhanced oil recovery from oilfields with temperature control. <i>Applied Thermal Engineering</i> , 2017, 123, 658-669.	3.0	52
47	Numerical simulation of two-phase flow in fractured porous media using streamline simulation and IMPES methods and comparing results with a commercial software. <i>Journal of Central South University</i> , 2016, 23, 2630-2637.	1.2	30
48	The role of radiation and bioconvection as an external agent to control the temperature and motion of fluid over the radially spinning circular surface: A theoretical analysis via Chebyshev spectral approach. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	7