

Adel G Nasser

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

507
citations

687363

13
h-index

677142

22
g-index

27
all docs

27
docs citations

27
times ranked

378
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of using a PCM-metal foam composite on charging/discharging process of bundled-tube LHTES units. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119320.	4.8	81
2	A one-way coupled numerical magnetic field and CFD simulation of viscoplastic compressible fluids in MR dampers. <i>International Journal of Mechanical Sciences</i> , 2020, 167, 105265.	6.7	39
3	Thermal performance evaluation of various nanofluids with non-uniform heating for parabolic trough collectors. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100769.	5.7	39
4	Rotating metal foam structures for performance enhancement of double-pipe heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 124-139.	4.8	35
5	The physical modelling and aerodynamics of turbulent flows around horizontal axis wind turbines. <i>Energy</i> , 2017, 119, 767-799.	8.8	30
6	A review on multi-physics numerical modelling in different applications of magnetorheological fluids. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 1855-1897.	2.5	29
7	Developing convective flow in a square channel partially filled with a high porosity metal foam and rotating in a parallel-mode. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 578-590.	4.8	26
8	Thermal-Hydraulic Analysis of Parabolic Trough Collectors Using Straight Conical Strip Inserts with Nanofluids. <i>Nanomaterials</i> , 2021, 11, 853.	4.1	26
9	Assessment and Evaluation of the Thermal Performance of Various Working Fluids in Parabolic Trough Collectors of Solar Thermal Power Plants under Non-Uniform Heat Flux Distribution Conditions. <i>Energies</i> , 2020, 13, 3776.	3.1	21
10	Energy piles: current state of knowledge and design challenges. <i>Environmental Geotechnics</i> , 2015, 2, 195-210.	2.3	20
11	Effect of various multiple strip inserts and nanofluids on the thermal-hydraulic performances of parabolic trough collectors. <i>Applied Thermal Engineering</i> , 2022, 201, 117798.	6.0	18
12	Magnetic Circuit Analysis and Fluid Flow Modeling of an MR Damper With Enhanced Magnetic Characteristics. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-20.	2.1	14
13	Hydrodynamically and thermally developing flow in a rectangular channel filled with a high porosity fiber and rotating about a parallel axis. <i>International Communications in Heat and Mass Transfer</i> , 2015, 67, 114-123.	5.6	13
14	Effect of rotation on forced convection in wavy wall channels. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119177.	4.8	13
15	Dissipating the heat generated in high-performance electronics using graphitic foam heat-sinks cooled with a dielectric liquid. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105478.	5.6	13
16	Engineering risk assessment of photovoltaic-thermal-fuel cell system using classical failure modes, effects and criticality analyses. <i>Cleaner Environmental Systems</i> , 2021, 2, 100021.	4.2	11
17	Numerical Investigation of Rotation Effects on Anti-vortex Film-Cooling Holes. <i>Flow, Turbulence and Combustion</i> , 2016, 96, 133-162.	2.6	10
18	A numerical study of anti-vortex film-cooling holes designs in a 1-1/2 turbine stage using LES. <i>Propulsion and Power Research</i> , 2019, 8, 275-299.	4.3	10

#	ARTICLE	IF	CITATIONS
19	Cooling of high-performance electronic equipment using graphite foam heat sinks. Applied Thermal Engineering, 2021, 191, 116844.	6.0	10
20	Prospects of Integrated Photovoltaic-Fuel Cell Systems in a Hydrogen Economy: A Comprehensive Review. Energies, 2021, 14, 6827.	3.1	10
21	Study of failure symptoms of a single-tube MR damper using an FEA-CFD approach. Journal of Intelligent Material Systems and Structures, 2021, 32, 1391-1419.	2.5	7
22	A Computational Approach to Solve a System of Transcendental Equations with Multi-Functions and Multi-Variables. Mathematics, 2021, 9, 920.	2.2	7
23	Unitized regenerative proton exchange membrane fuel cell system for renewable power and hydrogen generation: Modelling, simulation, and a case study. Cleaner Engineering and Technology, 2021, 4, 100241.	4.0	7
24	LES of rotating film-cooling performance in a 1-1/2 turbine stage. Propulsion and Power Research, 2019, 8, 85-107.	4.3	7
25	Evaluation of nonlinear dynamic phenomena in the hysteretic behaviour of magnetorheological dampers. Applications in Engineering Science, 2020, 3, 100019.	0.8	5
26	Radiation-Thermodynamic Modelling and Simulating the Core of a Thermophotovoltaic System. Energies, 2020, 13, 6157.	3.1	5