Mohamed I Hassan Ali

List of Publications by Year
in descending order

54	1,497	489802 18	355658 38
papers	citations	h-index	g-index

64	64	64	1464
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Utilizing Buckingham Pi theorem and multiple regression analysis in scaling up direct contact membrane distillation processes. Desalination, 2022, 528, 115606.	4.0	8
2	Fluid flow and heat transfer of porous TPMS architected heat sinks in free convection environment. Case Studies in Thermal Engineering, 2022, 33, 101944.	2.8	30
3	A computational study to analyze the effect of equivalence ratio and hydrogen volume fraction on the ultra-lean burning of the syngas-fueled HCCI engine. International Journal of Hydrogen Energy, 2022, 47, 25808-25818.	3.8	14
4	Freezing desalination: Heat and mass validated modeling and experimental parametric analyses. Case Studies in Thermal Engineering, 2021, 26, 101189.	2.8	14
5	Aluminum smelters in the energy transition: Optimal configuration and operation for renewable energy integration in high insolation regions. Renewable Energy, 2021, 180, 937-953.	4.3	9
6	Advanced Modeling of Nanofluid-Based Solar Receivers in the Concentrated Solar Power Trough to Enhance the Heat Absorptivity. Energy Reports, 2021, 7, 901-920.	2.5	2
7	CFD-based genetic programming model for liquid entry pressure estimation of hydrophobic membranes. Desalination, 2020, 476, 114231.	4.0	25
8	Microstructural characterization and thermomechanical behavior of additively manufactured AlSi10Mg sheet cellular materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 791, 139714.	2.6	47
9	Implementation of two multiphase flow methods in modeling wetting of microporous hydrophobic membranes. Science of the Total Environment, 2019, 691, 1251-1261.	3.9	6
10	Aluminum Holding Furnace Optimal Design Using the CFD Method and Factorial Approach. Minerals, Metals and Materials Series, 2019, , 1151-1157.	0.3	0
11	Comparative performance assessment of flat sheet and hollow fiber DCMD processes using CFD modeling. Separation and Purification Technology, 2019, 212, 709-722.	3.9	29
12	Engine roughness and exhaust emissions of a diesel engine fueled with three biofuels. Renewable Energy, 2019, 134, 1465-1472.	4.3	34
13	Estimation of liquid entry pressure in hydrophobic membranes using CFD tools. Journal of Membrane Science, 2018, 552, 68-76.	4.1	40
14	Energy Mix Forecasting in Abu Dhabi Using Mixed Integer Linear Program. , 2018, , .		0
15	Retrofitting Gas Turbine Units Parabolic Trough Concentrated Solar Power for Sustainable Electricity Generation. , 2018, , .		1
16	Reverberatory Furnace CFD Modeling for Efficient Design: Burners and Chimney Location. , 2018, , .		1
17	Computational fluid dynamics modeling for performance assessment of permeate gap membrane distillation. Journal of Membrane Science, 2018, 568, 55-66.	4.1	17
18	Variable refrigerant flow cooling assessment in humid environment using different refrigerants. Journal of Environmental Management, 2018, 224, 243-251.	3.8	16

#	Article	IF	Citations
19	Variable-Refrigerant-Flow Cooling-Systems Performance at Different Operation-Pressures and Types-of-Refrigerants. Energy Procedia, 2017, 119, 426-432.	1.8	8
20	Billets Heat Treatment using Flue Gas for Energy Efficiency and Batching Cycle Time Reduction. Energy Procedia, 2017, 105, 3377-3383.	1.8	4
21	Heat pipe long term performance using water based nanofluid. Cogent Engineering, 2017, 4, 1336070.	1.1	2
22	Metal Scrap Preheating using Flue Gas Waste Heat. Energy Procedia, 2017, 105, 4788-4795.	1.8	9
23	Reverse electrodialysis powered greenhouse concept for water- and energy-self-sufficient agriculture. Applied Energy, 2017, 187, 390-409.	5.1	61
24	Wastewater Byproducts Thermal Integration. Energy Procedia, 2017, 142, 2740-2747.	1.8	0
25	Conically Stabilized Turbulent Premixed Lean-Flames Sustainability. Energy Procedia, 2017, 142, 3820-3826.	1.8	0
26	Spent Pot Lining Characterization Framework. Jom, 2017, 69, 1639-1645.	0.9	20
27	Modeling the Electrical Contact Resistance at Steelâ€“Carbon Interfaces. Jom, 2016, 68, 49-58.	0.9	2
28	A new vacuum membrane distillation system using an aspirator: concept modeling and optimization. Desalination and Water Treatment, 2016, 57, 12915-12928.	1.0	9
29	Improvement of Seed Germination in Three Medicinal Plant Species by Plant Growth Regulators. Hortscience: A Publication of the American Society for Hortcultural Science, 2016, 51, 887-891.	0.5	10
30	Furnace Modeling for Efficient Combustion Gas Circulation. , 2016, , 757-761.		0
31	A Realistic Numerical Model of Lengthy Solar Thermal Receivers Used in Parabolic Trough CSP Plants. Energy Procedia, 2015, 75, 473-478.	1.8	13
32	Evaluating the Chemical Composition and the Molar Heat Capacities of a white Aluminum Dross. Energy Procedia, 2015, 75, 2099-2105.	1.8	37
33	An On-Demand Hydrogen Cell for Automobile Fuel Consumption Efficiency. International Journal of Green Energy, 2015, 12, 1086-1090.	2.1	5
34	Multiple-Scale Thermomechanical Analysis of a Forced-Cooled Aluminum Reduction Pot. Jom, 2015, 67, 202-210.	0.9	0
35	Modeling In-Cylinder Water Injection in a 2-Stroke Internal Combustion Engine. Energy Procedia, 2015, 75, 2331-2336.	1.8	7
36	The Effect of Water-Based Nanofluid Incorporating Al2O3 Nanoparticles on Heat Pipe Performance. Energy Procedia, 2015, 75, 3201-3206.	1.8	27

#	Article	IF	Citations
37	An Experimental Study of Heat Pipe Performance Using Nanofluids. International Journal of Green Energy, 2015, 12, 225-229.	2.1	11
38	Techno-economic assessment of substituting natural gas based heater with thermal energy storage system in parabolic trough concentrated solar power plant. Renewable Energy, 2015, 75, 152-164.	4.3	44
39	CFD Comparison of Immersed Heater and Open Fire Burner Designs for Casting Furnaces. , 2015, , 915-920.		4
40	Numerical Study of the Free Convection Heat Transfer From an I-Beam Support Structure. , 2014, , .		0
41	Feasibility Study of Regenerative Burners in Aluminum Holding Furnaces. Jom, 2014, 66, 1603-1611.	0.9	15
42	Transient heat transfer computational model for the stopped aluminium reduction pot â€“ Cooling techniques evaluation. Applied Thermal Engineering, 2014, 73, 116-127.	3.0	7
43	A combination effect of reburn, post-flame air and acoustic excitation on NOx reduction. Fuel, 2013, 108, 231-237.	3.4	11
44	Effects of membrane properties on water production cost in small scale membrane distillation systems. Desalination, 2012, 306, 60-71.	4.0	77
45	Scale-Model Experiment and Numerical Simulation of a Steel Teeming Process. Materials and Manufacturing Processes, 2008, 23, 407-412.	2.7	16
46	Performance of secondary aluminum melting: Thermodynamic analysis and plant-site experiments. Energy, 2006, 31, 1769-1779.	4.5	22
47	Infrared thermography for inspecting the adhesion integrity of plastic welded joints. NDT and E International, 2006, 39, 1-7.	1.7	36
48	Effects of carbon nanotubes on flame spread rate over 1-propanol. Fire Safety Journal, 2005, 40, 425-438.	1.4	7
49	IR self-referencing thermography for detection of in-depth defects. Infrared Physics and Technology, 2005, 46, 283-289.	1.3	64
50	Optimizing thermography depth probing with a dynamic thermal point spread function. Infrared Physics and Technology, 2005, 46, 506-514.	1.3	14
51	Effects of pressure and nitrogen dilution on flame/stretch interactions of laminar premixed H2/O2/N2 flames. Combustion and Flame, 1998, 112, 1-15.	2.8	134
52	Measured and predicted properties of laminar premixed methane/air flames at various pressures. Combustion and Flame, 1998, 115, 539-550.	2.8	235
53	Flame stretch interactions of laminar premixed hydrogen/air flames at normal temperature and pressure. Combustion and Flame, 1997, 109, 1-24.	2.8	283
54	Nitriles in heterocyclic synthesis: The reaction of ethyl 2-oxoindoliden-3-ylidene cyanoacetate and of 3-dicyanoethylideneindoliden-2-one with phenols and amines. Heteroatom Chemistry, 1995, 6, 597-600.	0.4	4