

Mahdi Moghimi

List of Publications by Year in descending order

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44
papers

1,059
citations

535685

17
h-index

466096

32
g-index

46
all docs

46
docs citations

46
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of the centrifugal slurry pump through the splitter blades position. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 191-207.	1.1	2
2	Optimal design and sensitivity analysis of airfoil-shaped rotor blade for Savonius wind turbine by using response surface methodology. Wind Engineering, 2022, 46, 1203-1223.	1.1	6
3	Energy analysis and optimization of a biosensor-based microfluidic microbial fuel cell using both genetic algorithm and neural network PSO. International Journal of Hydrogen Energy, 2022, 47, 4854-4867.	3.8	20
4	Design, modeling and optimization of a renewable-based system for power generation and hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 14225-14242.	3.8	46
5	Analysis of PAT-Based Hydropower Plant Performance in Energy Harvesting: Application of Series Structure. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 4651-4663.	1.0	3
6	Deep learning optimization of a combined CCHP and greenhouse for CO2 capturing; case study of Tehran. Energy Conversion and Management, 2022, 267, 115946.	4.4	16
7	Optimization of pump selection for running as turbine and performance analysis within the regulation schemes. Energy, 2021, 217, 119402.	4.5	13
8	Optimal design and sensitivity analysis of energy storage for concentrated solar power plants using phase change material by gradient metal foams. Journal of Energy Storage, 2021, 35, 102233.	3.9	30
9	Experimental and numerical investigation of slip factor reduction in centrifugal slurry pump. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	11
10	3E analysis and optimization of an innovative cogeneration system based on biomass gasification and solar photovoltaic thermal plant. Energy, 2021, 230, 120646.	4.5	19
11	Efficiency Increase in Water Transmission Systems Using Optimized Selection of Parallel Pumps Running as Turbines. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	5
12	A Mathematical Model Development for Assessing the Engineering and Economic Improvement of Wave and Wind Hybrid Energy System. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2020, 44, 507-521.	0.8	8
13	Developed DMST model for performance analysis and parametric evaluation of Gorlov vertical axis wind turbines. Sustainable Energy Technologies and Assessments, 2020, 37, 100616.	1.7	15
14	Numerical study of laminar pulsed impinging jet on the metallic foam blocks using the local thermal non-equilibrium model. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1859-1874.	2.0	10
15	Rotational speed variation assessment of centrifugal pump-as-turbine as an energy utilization device under water distribution network condition. Energy, 2020, 213, 118502.	4.5	38
16	Investigation of Effective Parameters on Gorlov Vertical Axis Wind Turbine. Fluid Dynamics, 2020, 55, 345-363.	0.2	1
17	Design and evaluation of a novel multi-generation system based on SOFC-GT for electricity, fresh water and hydrogen production. Energy, 2020, 197, 117162.	4.5	101
18	Experimental and numerical study of a flapping-blade vertical-axis hydrokinetic turbine under free surface deformation and blockage effects. International Journal of Environmental Science and Technology, 2020, 17, 3633-3650.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Investigation of porous media effects on lithium-ion battery thermal management. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1619-1633.	2.0	5
20	Power Recovery in a Gas Pressure Reduction Station using 3D CFD Modeling of a Twin Screw Expander. <i>Journal of Applied Fluid Mechanics</i> , 2020, 13, 1179-1191.	0.4	1
21	Investigation on hydrodynamics and mass transfer in a feed channel of a spiral-wound membrane element using response surface methodology. <i>Chemical Engineering Research and Design</i> , 2019, 149, 147-157.	2.7	17
22	Exergoeconomic analysis and multi-objective optimization of a novel continuous solar-driven hydrogen production system assisted by phase change material thermal storage system. <i>Energy</i> , 2019, 189, 116170.	4.5	62
23	Numerical investigation of transient natural convection and entropy generation analysis in a porous cavity filled with nanofluid considering nanoparticles sedimentation. <i>Journal of Molecular Liquids</i> , 2019, 279, 327-341.	2.3	27
24	Exergy and energy analysis of a novel power cycle utilizing the cold energy of liquefied natural gas. <i>Heat and Mass Transfer</i> , 2019, 55, 3327-3342.	1.2	6
25	Design optimization and thermal management of the PEMFC using artificial neural networks. <i>Energy</i> , 2019, 182, 443-459.	4.5	64
26	Exergetic optimisation of twin screw expanders. <i>International Journal of Exergy</i> , 2019, 30, 360.	0.2	0
27	Hydrodynamic modeling of the spiral-wound membrane module including the membrane curvature: reverse osmosis case study. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 2074-2084.	1.2	2
28	Sensitivity analysis and performance evaluation of the PEMFC using wave-like porous ribs. <i>Applied Thermal Engineering</i> , 2019, 150, 433-444.	3.0	61
29	Thermal management in PEMFCs: The respective effects of porous media in the gas flow channel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3121-3137.	3.8	55
30	Exergetic optimisation of twin screw expanders. <i>International Journal of Exergy</i> , 2019, 30, 360.	0.2	0
31	Exergy optimization for a novel combination of organic Rankine cycles, Stirling cycle and direct expander turbines. <i>Heat and Mass Transfer</i> , 2018, 54, 1827-1839.	1.2	8
32	Numerical simulation of two-phase mass transport in three-dimensional naturally fractured reservoirs using discrete streamlines. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 73, 482-500.	1.2	10
33	Performance evaluation of an integrated hydrogen production system with LNG cold energy utilization. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22075-22087.	3.8	42
34	Energy and exergy investigation of a combined cooling, heating, power generation, and seawater desalination system. <i>Applied Thermal Engineering</i> , 2018, 140, 814-827.	3.0	69
35	4E analysis and multi-objective optimization of a CCHP cycle based on gas turbine and ejector refrigeration. <i>Applied Thermal Engineering</i> , 2018, 141, 516-530.	3.0	137
36	Analytical and Numerical Investigations of Unsteady Graphene Oxide Nanofluid Flow Between Two Parallel Plates. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	20

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37	Energy and environmental analysis of a natural gas pressure reduction station equipped with turboexpander, solar collector, and storage tank. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	2
38	Experimental Investigation on Supercavitating Flow over Parabolic Cavitators. Journal of Applied Fluid Mechanics, 2017, 10, 95-102.	0.4	7
39	Large eddy simulation of natural cavitating flows in Venturi-type sections. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 369-381.	1.1	10
40	Numerical simulation of unsteady cavitating flow over a disc. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 1245-1253.	1.1	8
41	Unsteady modelling of cavitating flow with artificial viscosity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 123-132.	1.1	2
42	Analytical treatment for nonlinear oscillation equations and vibratory system of waves. Tamkang Journal of Mathematics, 2009, 40, 77-94.	0.3	2
43	Variational iteration method for solving generalized Burger's-Fisher and Burger equations. Chaos, Solitons and Fractals, 2007, 33, 1756-1761.	2.5	76
44	A Temperature Fourier Series Solution for a Hollow Sphere. Journal of Heat Transfer, 2006, 128, 963-968.	1.2	17