

Shahram Derakhshan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

1,130
citations

16
h-index

33
g-index

37
ext. papers

1,317
ext. citations

3.3
avg, IF

4.94
L-index

#	Paper	IF	Citations
35	Experimental study of characteristic curves of centrifugal pumps working as turbines in different specific speeds. <i>Experimental Thermal and Fluid Science</i> , 2008 , 32, 800-807	3	222
34	Theoretical, numerical and experimental prediction of pump as turbine performance. <i>Renewable Energy</i> , 2012 , 48, 507-513	8.1	163
33	Theoretical, numerical and experimental investigation of centrifugal pumps in reverse operation. <i>Experimental Thermal and Fluid Science</i> , 2008 , 32, 1620-1627	3	117
32	Numerical shape optimization of a centrifugal pump impeller using artificial bee colony algorithm. <i>Computers and Fluids</i> , 2013 , 81, 145-151	2.8	78
31	Efficiency Improvement of Centrifugal Reverse Pumps. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2009 , 131,	2.1	59
30	MHD transverse mixed convection and entropy generation study of electromagnetic pump including a nanofluid using 3D LBM simulation. <i>International Journal of Mechanical Sciences</i> , 2017 , 133, 73-90	5.5	57
29	Computational analysis of SWCNH nanofluid-based direct absorption solar collector with a metal sheet. <i>Solar Energy</i> , 2018 , 170, 252-262	6.8	55
28	The comparison of multi-objective particle swarm optimization and NSGA II algorithm: applications in centrifugal pumps. <i>Engineering Optimization</i> , 2011 , 43, 1095-1113	2	53
27	Fine Tuning a PAT Hydropower Plant in a Water Supply Network to Improve System Effectiveness. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018038	2.8	33
26	Optimization, Numerical, and Experimental Study of a Propeller Pump as Turbine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2014 , 136,	2.6	30
25	The comparison of incomplete sensitivities and Genetic algorithms applications in 3D radial turbomachinery blade optimization. <i>Computers and Fluids</i> , 2010 , 39, 2022-2029	2.8	30
24	Numerical simulation and optimization of steam-assisted gravity drainage with temperature, rate, and well distance control using an efficient hybrid optimization technique. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 721-744	2.3	29
23	Numerical Shape Optimization of a Wind Turbine Blades Using Artificial Bee Colony Algorithm. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015 , 137,	2.6	25
22	Incomplete sensitivities for 3D radial turbomachinery blade optimization. <i>Computers and Fluids</i> , 2008 , 37, 1354-1363	2.8	25
21	Experimental study of viscosity effects on a pump as turbine performance. <i>Renewable Energy</i> , 2018 , 127, 539-547	8.1	20
20	Exergy Optimization of a Novel Combination of a Liquid Air Energy Storage System and a Parabolic Trough Solar Collector Power Plant. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	17
19	Investigation of an efficient shape optimization procedure for centrifugal pump impeller using eagle strategy algorithm and ANN (case study: slurry flow). <i>Structural and Multidisciplinary Optimization</i> , 2018 , 58, 459-473	3.6	16

18	Experimental and numerical study of a vertical axis tidal turbine performance. <i>Ocean Engineering</i> , 2017 , 137, 59-67	3.9	14
17	Numerical study of electroosmotic micropump using Lattice Boltzmann method. <i>Computers and Fluids</i> , 2015 , 114, 232-241	2.8	12
16	Numerical study of the cross-ventilation of an isolated building with different opening aspect ratios and locations for various wind directions. <i>International Journal of Ventilation</i> , 2017 , 16, 42-60	1.1	11
15	Hydrodynamic analysis of spiral wound reverse osmosis membrane recovery fraction and permeate water flow rate. <i>Desalination</i> , 2017 , 411, 59-68	10.3	10
14	A Molecular Dynamics Study of Description Models for Shear Viscosity in Nanochannels: Mixtures and Effect of Temperature. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2015 , 19, 206-220	3.7	8
13	Optimization of pump selection for running as turbine and performance analysis within the regulation schemes. <i>Energy</i> , 2021 , 217, 119402	7.9	7
12	Efficiency Improvement of a Rotary Gas Separator by Parametric Study and Gas/Liquid-Flow Analysis. <i>SPE Production and Operations</i> , 2018 , 33, 320-335	0.6	5
11	Numerical investigation of the power extraction mechanism of flapping foil tidal energy harvesting devices. <i>Energy and Environment</i> , 2019 , 30, 193-211	2.4	5
10	A Three-Dimensional Finite Element Study to Characterize the Influence of Load Direction on Stress Distribution in Bone Around Dental Implant. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014 , 4, 693-699	0.3	5
9	A Mathematical Model Development for Assessing the Engineering and Economic Improvement of Wave and Wind Hybrid Energy System. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2020 , 44, 507-521	1.2	5
8	Porous medium model of a hollow-fiber water filtration system. <i>Journal of Membrane Science</i> , 2018 , 563, 210-220	9.6	5
7	Modeling of a Refrigerator in Disaster Vehicle, Using Solar Energy and Engine Exhaust Gases Heat. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2016 , 138,	2.6	4
6	Experimental and numerical investigation of slip factor reduction in centrifugal slurry pump. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021 , 43, 1	2	3
5	Design Optimization of a Centrifugal Pump Using Particle Swarm Optimization Algorithm. <i>International Journal of Fluid Machinery and Systems</i> , 2019 , 12, 322-331	1.1	3
4	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	2.8	1
3	CFD Investigation of Near-Membrane Slippery Condition Effects on Water/Salt Transport in a Reverse Osmosis Feed Channel. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 6673-6685	2.5	1
2	Optimization of the centrifugal slurry pump through the splitter blades position. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110276	1.3	0
1	Efficiency Increase in Water Transmission Systems Using Optimized Selection of Parallel Pumps Running as Turbines. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 04021065	2.8	0

