

Behzad Najafi

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.

34
papers

1,438
citations

19
h-index

37
g-index

38
ext. papers

1,673
ext. citations

5.8
avg, IF

4.99
L-index

#	Paper	IF	Citations
34	Energy and cost optimization of a plate and fin heat exchanger using genetic algorithm. <i>Applied Thermal Engineering</i> , 2011 , 31, 1839-1847	5.8	188
33	Techno-economic feasibility of photovoltaic, wind, diesel and hybrid electrification systems for off-grid rural electrification in Colombia. <i>Renewable Energy</i> , 2016 , 97, 293-305	8.1	177
32	Thermal-economic-environmental analysis and multi-objective optimization of an internal-reforming solid oxide fuel cell-gas turbine hybrid system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 19111-19124	6.7	132
31	Exergetic, economic and environmental (3E) analyses, and multi-objective optimization of a CO ₂ /NH ₃ cascade refrigeration system. <i>Applied Thermal Engineering</i> , 2014 , 65, 42-50	5.8	120
30	Exergetic, economic and environmental analyses and multi-objective optimization of an SOFC-gas turbine hybrid cycle coupled with an MSF desalination system. <i>Desalination</i> , 2014 , 334, 46-59	10.3	101
29	4E analysis and multi-objective optimization of an integrated MCFC (molten carbonate fuel cell) and ORC (organic Rankine cycle) system. <i>Energy</i> , 2015 , 82, 650-663	7.9	80
28	Exergetic, economic, and environmental evaluations and multi-objective optimization of an internal-reforming SOFC-gas turbine cycle coupled with a Rankine cycle. <i>Applied Thermal Engineering</i> , 2016 , 108, 833-846	5.8	78
27	Thermal-economic-environmental analysis and multi-objective optimization of an ice thermal energy storage system for gas turbine cycle inlet air cooling. <i>Energy</i> , 2014 , 69, 212-226	7.9	76
26	Exergetic, economic, and environmental evaluations and multi-objective optimization of a combined molten carbonate fuel cell-gas turbine system. <i>Applied Thermal Engineering</i> , 2015 , 77, 1-11	5.8	70
25	Long-term performance analysis of an HT-PEM fuel cell based micro-CHP system: Operational strategies. <i>Applied Energy</i> , 2015 , 147, 582-592	10.7	47
24	Predictive modelling and adaptive long-term performance optimization of an HT-PEM fuel cell based micro combined heat and power (CHP) plant. <i>Applied Energy</i> , 2017 , 192, 519-529	10.7	43
23	Mathematical modelling and parametric study on a 30 kW _{el} high temperature PEM fuel cell based residential micro cogeneration plant. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1569-1583	6.7	41
22	Multi-objective optimization of a plate and frame heat exchanger via genetic algorithm. <i>Heat and Mass Transfer</i> , 2010 , 46, 639-647	2.2	40
21	Optimization of an HT-PEM fuel cell based residential micro combined heat and power system: A multi-objective approach. <i>Journal of Cleaner Production</i> , 2018 , 180, 126-138	10.3	37
20	Long-term economic analysis and optimization of an HT-PEM fuel cell based micro combined heat and power plant. <i>Applied Thermal Engineering</i> , 2016 , 99, 1201-1211	5.8	35
19	Mathematical Modeling and Multi-Objective Optimization of a Mini-Channel Heat Exchanger Via Genetic Algorithm. <i>Journal of Thermal Science and Engineering Applications</i> , 2013 , 5,	1.9	21
18	Fuel partialization and power/heat shifting strategies applied to a 30 kW _{el} high temperature PEM fuel cell based residential micro cogeneration plant. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14224-14234	6.7	20

17	Computational fluid dynamics investigation and multi-objective optimization of an engine air-cooling system using genetic algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011 , 225, 1389-1398	1.3	19
16	Economic feasibility analysis and optimization of hybrid renewable energy systems for rural electrification in Peru. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 731-748	4.3	19
15	Machine Learning-Based Short-Term Prediction of Air-Conditioning Load through Smart Meter Analytics. <i>Energies</i> , 2017 , 10, 1905	3.1	17
14	Temperature measurement in WTE boilers using suction pyrometers. <i>Sensors</i> , 2013 , 13, 15633-55	3.8	14
13	A tri-generation system based on polymer electrolyte fuel cell and desiccant wheel Part A: Fuel cell system modelling and partial load analysis. <i>Energy Conversion and Management</i> , 2015 , 106, 1450-1459	10.6	10
12	MOIRAE Bottom-up Model to compute the energy consumption of the Italian Residential sector: Model design, validation and evaluation of electrification pathways. <i>Energy</i> , 2020 , 211, 118674	7.9	10
11	Dynamic modelling, experimental validation, and thermo-economic analysis of industrial fire-tube boilers with stagnation point reverse flow combustor. <i>Applied Thermal Engineering</i> , 2019 , 149, 1394-1407	5.8	9
10	Rapid Fault Diagnosis of PEM Fuel Cells through Optimal Electrochemical Impedance Spectroscopy Tests. <i>Energies</i> , 2020 , 13, 3643	3.1	9
9	Dynamic modelling and optimal sizing of industrial fire-tube boilers for various demand profiles. <i>Applied Thermal Engineering</i> , 2018 , 132, 341-351	5.8	7
8	Building characterization through smart meter data analytics: Determination of the most influential temporal and importance-in-prediction based features. <i>Energy and Buildings</i> , 2021 , 234, 110671	7.1	7
7	Machine learning based disaggregation of air-conditioning loads using smart meter data. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4755-4762	2.5	4
6	Machine learning based models for pressure drop estimation of two-phase adiabatic air-water flow in micro-finned tubes: Determination of the most promising dimensionless feature set. <i>Chemical Engineering Research and Design</i> , 2021 , 167, 252-267	5.5	3
5	Sensitivity analysis on the effect of key parameters on the performance of parabolic trough solar collectors. <i>Journal of Physics: Conference Series</i> , 2014 , 501, 012032	0.3	1
4	Fluid selection and parametric analysis on condensation temperature and plant height for a thermogravimetric heat pump. <i>Applied Thermal Engineering</i> , 2015 , 78, 51-61	5.8	1
3	Sensitivity analysis of a hybrid photovoltaic thermal solar collector 2011 ,		1
2	Multi-objective optimization of a fire-tube heat recovery steam generator system 2009 ,		1
1	Machine Learning based Pressure Drop Estimation of Evaporating R134a Flow in Micro-fin Tubes: Investigation of the Optimal Dimensionless Feature Set. <i>International Journal of Refrigeration</i> , 2021 , 131, 20-20	3.8	0