

# Abolfazal Ahmadi

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8450957/abolfazal-ahmadi-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

57  
papers

894  
citations

18  
h-index

28  
g-index

65  
ext. papers

1,470  
ext. citations

5.3  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
57	Reduction of the environmental impacts of the hydropower plant by microalgae cultivation and biodiesel production.. <i>Journal of Environmental Management</i> , <b>2022</b> , 304, 114247	7.9	6
56	Strategic Study for Renewable Energy Policy, Optimizations and Sustainability in Iran. <i>Sustainability</i> , <b>2022</b> , 14, 2418	3.6	7
55	Development of smart energy systems for communities: technologies, policies and applications. <i>Energy</i> , <b>2022</b> , 248, 123540	7.9	4
54	Analysis of cold thermal energy storage using phase change materials in freezers. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104433	7.8	4
53	A conceptual review of sustainable electrical power generation from biogas. <i>Energy Science and Engineering</i> , <b>2022</b> , 10, 630-655	3.4	1
52	Machine Learning and Deep Learning in Energy Systems: A Review. <i>Sustainability</i> , <b>2022</b> , 14, 4832	3.6	6
51	Feasibility study for designing and building a zero-energy house in new cities. <i>Solar Energy</i> , <b>2022</b> , 240, 168-175	6.8	1
50	Wind Farm Layout Optimization with Different Hub Heights in Manjil Wind Farm Using Particle Swarm Optimization. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9746	2.6	3
49	Energy, exergy, economic, exergoenvironmental, and environmental analyses of a multigeneration system to produce electricity, cooling, potable water, hydrogen and sodium-hypochlorite. <i>Desalination</i> , <b>2021</b> , 501, 114902	10.3	16
48	Thermo-Economic Analysis on Integrated CO <sub>2</sub> , Organic Rankine Cycles, and NaClO Plant Using Liquefied Natural Gas. <i>Energies</i> , <b>2021</b> , 14, 2849	3.1	5
47	Energy, exergy, economic, exergoenvironmental and environmental (5E) analyses of the cogeneration plant to produce electrical power and urea. <i>Energy Conversion and Management</i> , <b>2021</b> , 235, 113951	10.6	6
46	A critical review of biogas production and usage with legislations framework across the globe. <i>International Journal of Environmental Science and Technology</i> , <b>2021</b> , 1-24	3.3	23
45	Energy, exergy, economic and exergoenvironmental analyses of polygeneration system integrated gas cycle, absorption chiller, and Copper-Chlorine thermochemical cycle to produce power, cooling, and hydrogen. <i>Energy</i> , <b>2021</b> , 222, 120008	7.9	7
44	The Performance Analysis and Monitoring of Grid-connected Photovoltaic Power Plant <b>2021</b> , 1, 77-96		2
43	Energy, exergy, and economic analyses of integration of heliostat solar receiver to gas and air bottom cycles. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124322	10.3	13
42	Recent residential applications of low-temperature solar collector. <i>Journal of Cleaner Production</i> , <b>2021</b> , 279, 123549	10.3	29
41	Simulation and technical-economic-environmental optimization of the General Electric GE90 hydrogen turbofan engine. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 3303-3318	6.7	5

40	Energy, exergy, environmental and economic analysis of the parabolic solar collector with life cycle assessment for different climate conditions. <i>Renewable Energy</i> , <b>2021</b> , 165, 301-320	8.1	11
39	Exergy-Economic-Environment Optimization of the Waste-to-Energy Power Plant Using Multi-Objective Particle-Swarm Optimization (MOPSO). <i>Scientia Iranica</i> , <b>2021</b> , 0-0	1.5	3
38	Economic study of maintenances and outage resolution in an electricity distribution network using the continuous-time Markov chain. <i>Journal of Quality in Maintenance Engineering</i> , <b>2021</b> , ahead-of-print,	1.1	1
37	Energy, exergy, exergoeconomic and exergoenvironmental analysis and optimization of quadruple combined solar, biogas, SRC and ORC cycles with methane system. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 150, 111420	16.2	15
36	Exergo-economic analysis and optimization of a combined solar collector with steam and Organic Rankine Cycle using particle swarm optimization (PSO) algorithm. <i>Cleaner Engineering and Technology</i> , <b>2021</b> , 4, 100221	2.7	3
35	Energy, exergy, and techno-economic performance analyses of solar dryers for agro products: A comprehensive review. <i>Solar Energy</i> , <b>2021</b> , 228, 349-373	6.8	10
34	Investigation of the load management and environmental impact of the hybrid cogeneration of the wind power plant and fuel cell. <i>Energy Reports</i> , <b>2021</b> , 7, 2930-2939	4.6	16
33	Experimental and numerical investigation on the heat transfer of an automotive engine's turbocharger. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2021</b> , 235, 2124-2135	1.4	3
32	Energy, Exergy, Economic, and Exergoenvironmental Analyses of a Novel Hybrid System to Produce Electricity, Cooling, and Syngas. <i>Energies</i> , <b>2020</b> , 13, 6453	3.1	23
31	Energy, exergy and economic analyses of new coal-fired cogeneration hybrid plant with wind energy resource. <i>Journal of Cleaner Production</i> , <b>2020</b> , 269, 122331	10.3	15
30	Energy, exergy, economic and exergoenvironmental analyses of gas and air bottoming cycles for production of electricity and hydrogen with gas reformer. <i>Journal of Cleaner Production</i> , <b>2020</b> , 259, 120915	10.3	32
29	Investigation of an integrated system combining an Organic Rankine Cycle and absorption chiller driven by geothermal energy: Energy, exergy, and economic analyses and optimization. <i>Journal of Cleaner Production</i> , <b>2020</b> , 258, 120780	10.3	63
28	A review status on alternative arrangements of power generation energy resources and reserve in India. <i>International Journal of Low-Carbon Technologies</i> , <b>2020</b> , 15, 224-240	2.8	5
27	Thermodynamic Optimization of a Geothermal Power Plant with a Genetic Algorithm in Two Stages. <i>Processes</i> , <b>2020</b> , 8, 1277	2.9	37
26	Applications of geothermal organic Rankine Cycle for electricity production. <i>Journal of Cleaner Production</i> , <b>2020</b> , 274, 122950	10.3	42
25	Energy, exergy and exergoeconomic optimization of a cogeneration system integrated with parabolic trough collector-wind turbine with desalination. <i>Journal of Cleaner Production</i> , <b>2020</b> , 273, 123122	10.3	34
24	Energy, exergy, economic, exergoeconomic, and exergoenvironmental (5E) analyses of a triple cycle with carbon capture. <i>Journal of CO2 Utilization</i> , <b>2020</b> , 41, 101258	7.6	26
23	Investigation the Integration of Heliostat Solar Receiver to Gas and Combined Cycles by Energy, Exergy, and Economic Point of Views. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5307	2.6	15

22	Thermodynamic modeling of a novel solar powered quad generation system to meet electrical and thermal loads of residential building and syngas production. <i>Energy Conversion and Management</i> , <b>2019</b> , 199, 111982	10.6	16
21	Energy, exergy, economic and advanced and extended exergy analyses of a wind turbine. <i>Energy Conversion and Management</i> , <b>2019</b> , 183, 369-381	10.6	56
20	Optimization of parabolic through collector (PTC) with multi objective swarm optimization (MOPSO) and energy, exergy and economic analyses. <i>Journal of Cleaner Production</i> , <b>2019</b> , 234, 285-296	10.3	41
19	Energy, exergy and economic analyses for the selection of working fluid and metal oxide nanofluids in a parabolic trough collector. <i>Solar Energy</i> , <b>2019</b> , 187, 175-184	6.8	55
18	Energy, exergy, advanced exergy and economic analyses of hybrid polymer electrolyte membrane (PEM) fuel cell and photovoltaic cells to produce hydrogen and electricity. <i>Journal of Cleaner Production</i> , <b>2019</b> , 234, 1082-1093	10.3	47
17	Eulerian multi-phase RPI modeling of turbulent forced convective of boiling flow inside the tube with porous medium. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 2739-2757	4.5	8
16	Exergy and exergoeconomic analysis and multi-objective optimisation of gas turbine power plant by evolutionary algorithms. Case study: Aliabad Katoul power plant. <i>International Journal of Exergy</i> , <b>2017</b> , 22, 279	1.2	28
15	Optimization of micro combined heat and power gas turbine by genetic algorithm. <i>Thermal Science</i> , <b>2015</b> , 19, 207-218	1.2	17
14	Optimisation of micro gas turbine by exergy, economic and environmental (3E) analysis. <i>International Journal of Exergy</i> , <b>2010</b> , 7, 1	1.2	34
13	Notice of Retraction: Effect of temperature increasing on nanofluid structure <b>2010</b> ,		1
12	Potential use of cold thermal energy storage systems for better efficiency and cost effectiveness. <i>Energy and Buildings</i> , <b>2010</b> , 42, 2296-2303	7	26
11	Exergy analysis of a wind turbine. <i>International Journal of Exergy</i> , <b>2009</b> , 6, 457	1.2	27
10	Experimental Study of a New Flow Conditioner on Disturbed Flow in Orifice Plate Metering. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2009</b> , 131,	2.1	3
9	Driving condition recognition for genetic-fuzzy HEV Control <b>2008</b> ,		22
8	Exergy Analysis a 5kW Polymer Electrolyte Fuel Cell (PEFC) With Cogeneration <b>2008</b> ,		1
7	Development of the orifice plate with a cone swirler flow conditioner. <i>Sensor Review</i> , <b>2005</b> , 25, 63-68	1.4	6
6	Investigating the dependence of energy prices and economic growth rates with emphasis on the development of renewable energy for sustainable development in Iran. <i>Sustainable Development</i> ,	6.7	3
5	Low-grade heat from solar ponds: trends, perspectives, and prospects. <i>International Journal of Ambient Energy</i> , 1-30	2	5

4	Renewable energy desalination; a sustainable approach for water scarcity in arid lands. <i>International Journal of Sustainable Engineering</i> ,1-27	3.1	2
3	MULTI-OBJECTIVE PARTICLE SWARM OPTIMIZATION OF THE K-TYPE SHELL AND TUBE HEAT EXCHANGER (CASE STUDY). <i>Journal of Thermal Engineering</i> ,570-583	1.1	0
2	Recent progress in thermal and optical enhancement of low temperature solar collector. <i>Energy Systems</i> ,1	1.7	2
1	Energy, exergy, and exergoenvironmental assessment of the coupled electrochemical copper-chlorine with the Goswami cycles. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> ,1-19	1.6	0