

# Tomasz Kowalczyk

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

281  
citations

1163117

8  
h-index

1058476

14  
g-index

22  
all docs

22  
docs citations

22  
times ranked

240  
citing authors

#	ARTICLE	IF	CITATIONS
1	On low-grade waste heat utilization from a supercritical steam power plant using an ORC-bottoming cycle coupled with two sources of heat. <i>Energy Conversion and Management</i> , 2017, 146, 158-173.	9.2	51
2	Zero-dimensional robust model of an SOFC with internal reforming for hybrid energy cycles. <i>Energy</i> , 2018, 158, 128-138.	8.8	50
3	Energy and exergy analysis of hydrogen production combined with electric energy generation in a nuclear cogeneration cycle. <i>Energy Conversion and Management</i> , 2019, 198, 111805.	9.2	47
4	On energy, exergy, and environmental aspects of a combined gas-steam cycle for heat and power generation undergoing a process of retrofitting by steam injection. <i>Energy Conversion and Management</i> , 2019, 192, 374-384.	9.2	38
5	Exergy Losses in the Szewalski Binary Vapor Cycle. <i>Entropy</i> , 2015, 17, 7242-7265.	2.2	24
6	Experimental and theoretical study of a vertical tube in shell storage unit with biodegradable PCM for low temperature thermal energy storage applications. <i>Applied Thermal Engineering</i> , 2021, 183, 116216.	6.0	16
7	Comparative study of a bottoming SRC and ORC for Jouleâ€“Brayton cycle cooling modular HTR exergy losses, fluid-flow machinery main dimensions, and partial loads. <i>Energy</i> , 2020, 206, 118072.	8.8	15
8	Enhanced energy conversion as a result of fluid-solid interaction in micro- and nanoscale. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 329.	0.5	14
9	Comparative analysis of hybrid energy storage based on a gasâ€“gas system and a conventional compressed air energy storage based on a recuperated gas turbine round trip efficiency, exergy losses, and heat exchanges start-up losses. <i>Energy Conversion and Management</i> , 2022, 258, 115467.	9.2	8
10	Exergy analysis of the Szewalski cycle with a waste heat recovery system. <i>Archives of Thermodynamics</i> , 2015, 36, 25-48.	1.0	5
11	Thermodynamic and economic analysis of the hierarchic gasâ€“gas power plant cooperating with a compressed air energy storage. <i>Energy Conversion and Management</i> , 2021, 234, 113918.	9.2	4
12	Thermodynamic and economic analysis of a hierarchical gasâ€“gas nuclear power plant with a high-temperature reactor and helium as a circulating medium. <i>Nuclear Engineering and Design</i> , 2021, 382, 111371.	1.7	4
13	The thermal effort during marine steam turbine flooding with water. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
14	Thermodynamic and economic comparative analyses of a hierarchic gas-gas combined heat and power (CHP) plant coupled with a compressor heat pump. <i>Energy</i> , 2022, 244, 123116.	8.8	2
15	Hierarchical Gas-Gas Systems. <i>Power Systems</i> , 2021, , .	0.5	1
16	Thermodynamic and Economic Analysis of a Gas Turbine Set Coupled with a Turboexpander in a Hierarchical Gasâ€“Gas System. <i>Power Systems</i> , 2021, , 35-63.	0.5	0
17	Replacing Natural Gas in a Gasâ€“Gas Engine with Nuclear Fuel. <i>Power Systems</i> , 2021, , 143-146.	0.5	0
18	Thermodynamic and Economic Analysis of Trigeneration System with a Hierarchical Gas-Gas Engine for Production of Electricity, Heat and Cold. <i>Power Systems</i> , 2021, , 65-97.	0.5	0

#	ARTICLE	IF	CITATIONS
19	Thermodynamic and Economic Analysis of a Hierarchical Gas-Gas Engine Integrated with a Compressed Air Storage. Power Systems, 2021, , 115-142.	0.5	0