

# Arkusz Bartela

## List of Publications by Year in descending order

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39  
papers

819  
citations

516561

16  
h-index

501076

28  
g-index

39  
all docs

39  
docs citations

39  
times ranked

659  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of the size of the CHP (combined heat and power) system integrated with a biomass fueled gas generator and piston engine on the thermodynamic and economic effectiveness of electricity and heat generation. <i>Energy</i> , 2014, 67, 328-340.	4.5	69
2	Thermodynamic and economic analysis of the different variants of a coal-fired, 460MW power plant using oxy-combustion technology. <i>Energy Conversion and Management</i> , 2013, 76, 109-120.	4.4	66
3	A comparative thermodynamic, economic and risk analysis concerning implementation of oxy-combustion power plants integrated with cryogenic and hybrid air separation units. <i>Energy Conversion and Management</i> , 2015, 92, 421-430.	4.4	58
4	Hydrogen generator characteristics for storage of renewably-generated energy. <i>Energy</i> , 2017, 118, 156-171.	4.5	58
5	A hybrid energy storage system using compressed air and hydrogen as the energy carrier. <i>Energy</i> , 2020, 196, 117088.	4.5	57
6	Economic analysis of a supercritical coal-fired CHP plant integrated with an absorption carbon capture installation. <i>Energy</i> , 2014, 64, 513-523.	4.5	51
7	Optimisation of the connection of membrane CCS installation with a supercritical coal-fired power plant. <i>Energy</i> , 2012, 38, 118-127.	4.5	46
8	The influence of economic parameters on the optimal values of the design variables of a combined cycle plant. <i>Energy</i> , 2010, 35, 911-919.	4.5	44
9	Thermodynamic and ecological assessment of selected coal-fired power plants integrated with carbon dioxide capture. <i>Applied Energy</i> , 2017, 200, 73-88.	5.1	37
10	Investment risk for biomass integrated gasification combined heat and power unit with an internal combustion engine and a Stirling engine. <i>Energy</i> , 2018, 150, 601-616.	4.5	32
11	Thermodynamic and economic assessment of compressed carbon dioxide energy storage systems using a post-mining underground infrastructure. <i>Energy Conversion and Management</i> , 2021, 241, 114297.	4.4	26
12	Thermodynamic, ecological and economic aspects of the use of the gas turbine for heat supply to the stripping process in a supercritical CHP plant integrated with a carbon capture installation. <i>Energy Conversion and Management</i> , 2014, 85, 750-763.	4.4	25
13	Retrofit Decarbonization of Coal Power Plants – A Case Study for Poland. <i>Energies</i> , 2021, 14, 120.	1.6	21
14	The influence of the legal and economical environment and the profile of activities on the optimal design features of a natural-gas-fired combined heat and power plant. <i>Energy</i> , 2011, 36, 328-338.	4.5	20
15	Potential for the use of micro-cogeneration prosumer systems based on the Stirling engine with an example in the Polish market. <i>Energy</i> , 2017, 133, 46-61.	4.5	20
16	Economic and environmental evaluation of selected advanced power generation technologies. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011, 225, 221-232.	0.8	18
17	Evaluation of conceptual electrolysis-based energy storage systems using gas expanders. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20171-20182.	3.8	17
18	Assessment of the economic appropriateness of the use of Stirling engine as additional part of a cogeneration system based on biomass gasification. <i>Renewable Energy</i> , 2017, 112, 425-443.	4.3	16

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19	Thermodynamic assessment of the novel concept of the energy storage system using compressed carbon dioxide, methanation and hydrogen generator. <i>Fuel</i> , 2021, 304, 120764.	3.4	16
20	Evaluation of the energy potential of an adiabatic compressed air energy storage system based on a novel thermal energy storage system in a post mining shaft. <i>Journal of Energy Storage</i> , 2022, 54, 105282.	3.9	15
21	An analysis of the investment risk related to the integration of a supercritical coal-fired combined heat and power plant with an absorption installation for CO <sub>2</sub> separation. <i>Applied Energy</i> , 2015, 156, 423-435.	5.1	11
22	A system analysis of hybrid solar PTC-CPV absorber operation. <i>Renewable Energy</i> , 2021, 174, 635-653.	4.3	11
23	Evaluation of electricity generation subsystem of power-to-gas-to-power unit using gas expander and heat recovery steam generator. <i>Energy</i> , 2020, 212, 118600.	4.5	11
24	Validation of a program for supercritical power plant calculations. <i>Archives of Thermodynamics</i> , 2011, 32, 81-89.	1.0	11
25	Solar tracker error impact on linear absorbers efficiency in parabolic trough collector – Optical and thermodynamic study. <i>Renewable Energy</i> , 2022, 196, 598-609.	4.3	11
26	Techno-Economic Assessment of Coal-Fired Power Unit Decarbonization Retrofit with KP-FHR Small Modular Reactors. <i>Energies</i> , 2021, 14, 2557.	1.6	10
27	Influence of the Selected Parameters on the Effectiveness of IGCC System Integrated With CCS Installation. <i>Chemical and Process Engineering - Inżynieria Chemiczna I Procesowa</i> , 2014, 35, 233-248.	0.7	6
28	Analysis of operation of the gas turbine in a poligeneration combined cycle. <i>Archives of Thermodynamics</i> , 2013, 34, 137-159.	1.0	5
29	Thermodynamic and economical analysis of the ORC module application to an existing combined heat and power unit with the backpressure turbine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2015, 229, 613-627.	0.8	5
30	Evaluation of Technological Options for Carbon Dioxide Utilization. <i>Journal of Energy Resources Technology</i> , <i>Transactions of the ASME</i> , 2020, 142, .	1.4	5
31	Isobaric tanks system for carbon dioxide energy storage – The performance analysis. <i>Journal of Energy Storage</i> , 2022, 52, 104826.	3.9	5
32	Characteristics modeling for supercritical circulating fluidized bed boiler working in oxy-combustion technology. <i>Archives of Thermodynamics</i> , 2014, 35, 51-63.	1.0	4
33	A solar simulator numerical modeling for heat absorption phenomenon research in a parabolic trough collector. <i>International Journal of Energy Research</i> , 2022, 46, 10074-10087.	2.2	4
34	Design and Construction Challenges for a Hybrid Air and Thermal Energy Storage System Built in the Post-Mining Shaft. <i>Journal of Thermal Science</i> , 2022, 31, 1302-1317.	0.9	4
35	Analysis of Energy Storage System with Distributed Hydrogen Production and Gas Turbine. <i>Archives of Thermodynamics</i> , 2017, 38, 65-87.	1.0	3
36	Modeling of influence of vibration on intensification of heat transfer within the absorber of the vacuum solar collector. <i>E3S Web of Conferences</i> , 2019, 137, 01034.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Thermodynamic analysis of a new conception of supplementary firing in a combined cycle. Archives of Thermodynamics, 2010, 31, 15-24.	1.0	0
38	Optimizing management of the condensing heat and cooling of gases compression in oxy block using of a genetic algorithm. Archives of Thermodynamics, 2013, 34, 199-214.	1.0	0
39	Analysis of thermodynamics of two-fuel power unit integrated with a carbon dioxide separation plant. Archives of Thermodynamics, 2014, 35, 55-68.	1.0	0