

Arkusz Bartela

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Isobaric tanks system for carbon dioxide energy storage – The performance analysis. <i>Journal of Energy Storage</i> , 2022, 52, 104826.	3.9	5
4	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
5	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
6	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
7	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
8	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
9	A system analysis of hybrid solar PTC-CPV absorber operation. <i>Renewable Energy</i> , 2021, 174, 635-653.	4.3	11
10	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
11	Retrofit Decarbonization of Coal Power Plants – A Case Study for Poland. <i>Energies</i> , 2021, 14, 120.	1.6	21
12	A hybrid energy storage system using compressed air and hydrogen as the energy carrier. <i>Energy</i> , 2020, 196, 117088.	4.5	57
13	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
14	Evaluation of Technological Options for Carbon Dioxide Utilization. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2020, 142, .	1.4	5
15	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
16	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
17	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
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	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
20	Hydrogen generator characteristics for storage of renewably-generated energy. <i>Energy</i> , 2017, 118, 156-171.	4.5	58
21	Analysis of Energy Storage System with Distributed Hydrogen Production and Gas Turbine. <i>Archives of Thermodynamics</i> , 2017, 38, 65-87.	1.0	3
22	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
23	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 ₂ separation. <i>Applied Energy</i> , 2015, 156, 423-435.	5.1	11
24	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
25	Influence of the Selected Parameters on the Effectiveness of IGCC System Integrated With CCS Installation. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2014, 35, 233-248.	0.7	6
26	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
27	Analysis of thermodynamics of two-fuel power unit integrated with a carbon dioxide separation plant. <i>Archives of Thermodynamics</i> , 2014, 35, 55-68.	1.0	0
28	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
29	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
30	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
31	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
32	Analysis of operation of the gas turbine in a poligeneration combined cycle. <i>Archives of Thermodynamics</i> , 2013, 34, 137-159.	1.0	5
33	Optimizing management of the condensing heat and cooling of gases compression in oxy block using of a genetic algorithm. <i>Archives of Thermodynamics</i> , 2013, 34, 199-214.	1.0	0
34	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
35	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
36	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

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37	Validation of a program for supercritical power plant calculations. Archives of Thermodynamics, 2011, 32, 81-89.	1.0	11
38	Thermodynamic analysis of a new conception of supplementary firing in a combined cycle. Archives of Thermodynamics, 2010, 31, 15-24.	1.0	0
39	The influence of economic parameters on the optimal values of the design variables of a combined cycle plant. Energy, 2010, 35, 911-919.	4.5	44