

Piotr Kolasiński

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	The Application of Rotary Vane Expanders in Organic Rankine Cycle Systems—Thermodynamic Description and Experimental Results. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013, 135, .	1.1	48
2	Experimental and Numerical Analyses on the Rotary Vane Expander Operating Conditions in a Micro Organic Rankine Cycle System. <i>Energies</i> , 2016, 9, 606.	3.1	38
3	The Influence of the Heat Source Temperature on the Multivane Expander Output Power in an Organic Rankine Cycle (ORC) System. <i>Energies</i> , 2015, 8, 3351-3369.	3.1	31
4	Thermodynamic efficiency of trilateral flash cycle, organic Rankine cycle and partially evaporated organic Rankine cycle. <i>Energy Conversion and Management</i> , 2021, 249, 114731.	9.2	26
5	Modelling and experimental analyzes on air-fluidised silica gel-water adsorption and desorption. <i>Applied Thermal Engineering</i> , 2017, 127, 950-962.	6.0	23
6	The Method of the Working Fluid Selection for Organic Rankine Cycle (ORC) Systems Employing Volumetric Expanders. <i>Energies</i> , 2020, 13, 573.	3.1	22
7	Experimental investigation on multi-vane expander operating conditions in domestic CHP ORC system. <i>Energy Procedia</i> , 2017, 129, 323-330.	1.8	19
8	Experimental and numerical flow analysis and design optimization of a fume hood using the CFD method. <i>Chemical Engineering Research and Design</i> , 2018, 132, 627-643.	5.6	16
9	Application of the Multi-Vane Expanders in ORC Systems—A Review on the Experimental and Modeling Research Activities. <i>Energies</i> , 2019, 12, 2975.	3.1	15
10	A Review on Electroactive Polymers for Waste Heat Recovery. <i>Materials</i> , 2016, 9, 485.	2.9	14
11	Modern Small and Microcogeneration Systems—A Review. <i>Energies</i> , 2021, 14, 785.	3.1	14
12	Use of Rolling Piston Expanders for Energy Regeneration in Natural Gas Pressure Reduction Stations—Selected Thermodynamic Issues. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 535.	2.5	13
13	Application of volumetric expanders in small vapour power plants used in distributed energy generation — Selected design and thermodynamic issues. <i>Energy Conversion and Management</i> , 2021, 231, 113859.	9.2	13
14	Experimental and modelling studies on the possible application of heat storage devices for powering the ORC (organic rankine cycle) systems. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100586.	2.7	12
15	Modelling of the mixed convection in a lid-driven cavity with a constant heat flux boundary condition. <i>Heat and Mass Transfer</i> , 2016, 52, 595-609.	2.1	10
16	Influence of the Applied Working Fluid and the Arrangement of the Steering Edges on Multi-Vane Expander Performance in Micro ORC System. <i>Energies</i> , 2018, 11, 892.	3.1	10
17	The Influence of Operating Parameters on Adsorption/Desorption Characteristics and Performance of the Fluidised Desiccant Cooler. <i>Energies</i> , 2018, 11, 1597.	3.1	7
18	Domestic Organic Rankine Cycle-Based Cogeneration Systems as a Way to Reduce Dust Emissions in Municipal Heating. <i>Energies</i> , 2020, 13, 3983.	3.1	6

#	ARTICLE	IF	CITATIONS
19	Sizing the Thermal Energy Storage Device Utilizing Phase Change Material (PCM) for Low-Temperature Organic Rankine Cycle Systems Employing Selected Hydrocarbons. <i>Energies</i> , 2022, 15, 956.	3.1	6
20	Exergy Analysis of Fluidized Desiccant Cooling System. <i>Entropy</i> , 2019, 21, 757.	2.2	5
21	Thermodynamic efficiency of subcritical and transcritical power cycles utilizing selected ACZ working fluids. <i>Energy</i> , 2022, 254, 124432.	8.8	5
22	Solar High-Temperature Heat Accumulation System with ORC Generator. , 2011, , .		4
23	Energy Processes, Systems and Equipment. <i>Energies</i> , 2021, 14, 1701.	3.1	3
24	A Preliminary Design and Modeling Analysis of Two-Phase Volumetric Expanders for a Novel Reversible Organic Rankine-Based Cycle for Carnot Battery Technology. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3557.	2.5	3
25	Waste Heat Recovery in Automotive Paint Shop via Organic Rankine Cycle and Thermal Energy Storage System – Selected Thermodynamic Issues. <i>Energies</i> , 2022, 15, 2239.	3.1	3
26	Effect of operating conditions on performance of silica gel-water air-fluidised desiccant cooler. <i>E3S Web of Conferences</i> , 2017, 22, 00146.	0.5	2
27	Sizing the thermal energy storage (TES) device for organic Rankine cycle (ORC) power systems. <i>MATEC Web of Conferences</i> , 2021, 345, 00018.	0.2	2
28	A Comparative Study of Cooling Sources in Organic Rankine Cycle for Low-Temperature Geothermal Heat Sources. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 1014, 012008.	0.3	1
29	Direct waste heat recovery via thermoelectric materials - chosen issues of the thermodynamic description. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 113, 012022.	0.6	0
30	Numerical modelling of multi-vane expander operating conditions in ORC system. <i>E3S Web of Conferences</i> , 2017, 22, 00142.	0.5	0
31	Studies on the possible application of heat storage devices for powering the ORC (Organic Rankine) Tj ETQq1 1 0.784314 rgBT /Over 0,5		
32	The efficiency of transcritical CO ₂ cycle near critical point and with high temperature. <i>MATEC Web of Conferences</i> , 2021, 345, 00005.	0.2	0
33	The use of spiral heat exchangers in the orc domestic systems. <i>Scientific Letters of Rzeszow University of Technology - Mechanics</i> , 2015, 32, 23-35.	0.2	0