

# Piotr Kolasiński

## List of Publications by Year in descending order

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33  
papers

371  
citations

759233

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794594

19  
g-index

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33  
docs citations

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times ranked

294  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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         |
| 2  | 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         |
| 3  | 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         |
| 4  | 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         |
| 5  | Thermodynamic efficiency of subcritical and transcritical power cycles utilizing selected ACZ working fluids. <i>Energy</i> , 2022, 254, 124432.   | 8.8 | 5         |
| 6  | Modern Small and Microcogeneration Systems—A Review. <i>Energies</i> , 2021, 14, 785.  | 3.1 | 14        |
| 7  | 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        |
| 8  | Energy Processes, Systems and Equipment. <i>Energies</i> , 2021, 14, 1701.   | 3.1 | 3         |
| 9  | 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         |
| 10 | The efficiency of transcritical CO <sub>2</sub> cycle near critical point and with high temperature. <i>MATEC Web of Conferences</i> , 2021, 345, 00005.   | 0.2 | 0         |
| 11 | 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        |
| 12 | 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         |
| 13 | 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        |
| 14 | 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        |
| 15 | Studies on the possible application of heat storage devices for powering the ORC (Organic Rankine) Tj ETQq1 1 0.784314 rgBT /Overbo  | 0.5 | 0         |
| 16 | Exergy Analysis of Fluidized Desiccant Cooling System. <i>Entropy</i> , 2019, 21, 757.   | 2.2 | 5         |
| 17 | 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        |
| 18 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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        |
| 20 | 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         |
| 21 | Experimental investigation on multi-vane expander operating conditions in domestic CHP ORC system. <i>Energy Procedia</i> , 2017, 129, 323-330.   | 1.8 | 19        |
| 22 | 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        |
| 23 | 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        |
| 24 | Numerical modelling of multi-vane expander operating conditions in ORC system. <i>E3S Web of Conferences</i> , 2017, 22, 00142.   | 0.5 | 0         |
| 25 | 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         |
| 26 | 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        |
| 27 | A Review on Electroactive Polymers for Waste Heat Recovery. <i>Materials</i> , 2016, 9, 485.  | 2.9 | 14        |
| 28 | 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         |
| 29 | 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        |
| 30 | 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        |
| 31 | 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         |
| 32 | 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        |
| 33 | Solar High-Temperature Heat Accumulation System with ORC Generator. , 2011, , .   |     | 4         |