

CITATION REPORT

List of articles citing

Testing and modeling a scroll expander integrated into an Organic Rankine Cycle

DOI: 10.1016/j.applthermaleng.2009.04.013
Applied Thermal Engineering, 2009, 29, 3094-3102.

Source: <https://exaly.com/paper-pdf/46147761/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
395	Simulation and experiment research on wide ranging working process of scroll expander driven by compressed air. <i>Applied Thermal Engineering</i> , 2010 , 30, 2073-2079	5.8	58
394	Experimental study and modeling of an Organic Rankine Cycle using scroll expander. <i>Applied Energy</i> , 2010 , 87, 1260-1268	10.7	386
393	Optimization of low temperature solar thermal electric generation with Organic Rankine Cycle in different areas. <i>Applied Energy</i> , 2010 , 87, 3355-3365	10.7	137
392	A thermodynamic criterion for selection of working fluid for subcritical and supercritical domestic micro CHP. <i>Applied Thermal Engineering</i> , 2010 , 30, 2357-2362	5.8	141
391	Construction of Heat Recovery Generation System for Co-generation in Commercial and Residential Sectors - Improvement of Scroll Shapes for High-power and High-performance in Scroll Steam Expander -. 2010 , 89, 1095-1102		
390	Experimental Sliding Performance of Composite Tip Seal with High-Carbon Steel Plate under Lubricated Conditions Applied to Scroll Expander Systems. 2011 , 54, 505-513		3
389	Low-grade heat conversion into power using organic Rankine cycles [A review of various applications. 2011 , 15, 3963-3979		769
388	Evaluation of external heat loss from a small-scale expander used in organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2011 , 31, 2694-2701	5.8	27
387	Thermo-economic optimization of waste heat recovery Organic Rankine Cycles. <i>Applied Thermal Engineering</i> , 2011 , 31, 2885-2893	5.8	477
386	Expanders for micro-CHP systems with organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2011 , 31, 3301-3307	5.8	240
385	Construction and dynamic test of a small-scale organic rankine cycle. <i>Energy</i> , 2011 , 36, 3215-3223	7.9	168
384	Study of working fluid selection of organic Rankine cycle (ORC) for engine waste heat recovery. <i>Energy</i> , 2011 , 36, 3406-3418	7.9	474
383	Dynamic modeling and optimal control strategy of waste heat recovery Organic Rankine Cycles. <i>Applied Energy</i> , 2011 , 88, 2183-2190	10.7	315
382	Fundamental experiment of pumpless Rankine-type cycle for low-temperature heat recovery. <i>Energy</i> , 2011 , 36, 1010-1017	7.9	50
381	Design and analysis of a novel low-temperature solar thermal electric system with two-stage collectors and heat storage units. <i>Renewable Energy</i> , 2011 , 36, 2324-2333	8.1	50
380	Simulation and economic analysis of a CPV/thermal system coupled with an organic Rankine cycle for increased power generation. 2011 , 85, 308-324		103
379	Performance and design optimization of a low-cost solar organic Rankine cycle for remote power generation. 2011 , 85, 955-966		263

378	The scope to improve the efficiency of solar-powered reverse osmosis. 2011 , 35, 14-32		13
377	Biomass fuels for small and micro combined heat and power (CHP) systems: resources, conversion and applications. 2011 , 88-122		8
376	Simulation of the dynamic processes in a scroll expander generator used for small-scale organic Rankine cycle system. 2011 , 225, 141-149		13
375	. 2011 ,		1
374	Optimum Positioning of Ports in the Limañ Gas Expanders. 2011 , 133,		7
373	CFD Simulation and Experiment of Scroll Expander for Organic Rankine Systems. 2012 , 614-615, 515-519		2
372	Thermodynamic Analysis for Organic Rankine Cycle Recovery System in Industrial Waste Heat. 2012 , 619, 310-314		
371	Linear Active Disturbance Rejection Control of Waste Heat Recovery Systems with Organic Rankine Cycles. <i>Energies</i> , 2012 , 5, 5111-5125	3.1	20
370	Reciprocating Expander for an Exhaust Heat Recovery Rankine Cycle for a Passenger Car Application. <i>Energies</i> , 2012 , 5, 1751-1765	3.1	59
369	Simulation study on scroll expander digital electro-hydraulic governing system. 2012 ,		
368	Experimental characterization of a hermetic scroll expander for use in a micro-scale Rankine cycle. 2012 , 226, 126-136		93
367	Experimental Study on Output Characteristics of Scroll Expander Used as Air Powered Vehicle Engine. 2012 , 516-517, 614-618		
366	Design of Small-Scale Radial Inflow Turbine Integrated into Organic Rankine Cycle. 2012 , 524-527, 3907-3913		
365	Performance Evaluation of a Turbine Used in a Regenerative Organic Rankine Cycle. 2012 ,		2
364	Development and Validation of an Advanced Simulation Model for ORC-Based Systems. 2012 ,		3
363	Geothermal Energy for Small-Scale Power Generation Using an Organic Rankine Cycle. 2012 ,		
362	Integrated thermoelectric and organic Rankine cycles for micro-CHP systems. <i>Applied Energy</i> , 2012 , 97, 667-672	10.7	58
361	Energy efficiency analysis of Organic Rankine Cycles with scroll expanders for cogenerative applications. <i>Applied Energy</i> , 2012 , 97, 792-801	10.7	120

360	Fluids and parameters optimization for the organic Rankine cycles (ORCs) used in exhaust heat recovery of Internal Combustion Engine (ICE). <i>Energy</i> , 2012 , 47, 125-136	7.9	196
359	Experimental investigation of a biomass-fired ORC-based micro-CHP for domestic applications. <i>Energy</i> , 2012 , 96, 374-382		166
358	Optimum design of lime gas expanders based on thermodynamic performance. <i>Applied Thermal Engineering</i> , 2012 , 39, 188-197	5.8	4
357	Energetic and exergetic investigation of an organic Rankine cycle at different heat source temperatures. <i>Energy</i> , 2012 , 38, 85-95	7.9	89
356	Future perspectives on sustainable tribology. <i>Energy</i> , 2012 , 16, 4126-4140		72
355	Reprint of A review of chemical heat pumps, thermodynamic cycles and thermal energy storage technologies for low grade heat utilisation. <i>Applied Thermal Engineering</i> , 2013 , 53, 160-176	5.8	40
354	Construction and preliminary test of a low-temperature regenerative Organic Rankine Cycle (ORC) using R123. <i>Renewable Energy</i> , 2013 , 57, 216-222	8.1	84
353	Experimental study on Organic Rankine Cycle for waste heat recovery from low-temperature flue gas. <i>Energy</i> , 2013 , 55, 216-225	7.9	129
352	Experimental study on an open-drive scroll expander integrated into an ORC (Organic Rankine Cycle) system with R245fa as working fluid. <i>Energy</i> , 2013 , 55, 173-183	7.9	235
351	Design of a small-scale organic Rankine cycle engine used in a solar power plant. <i>Energy</i> , 2013 , 8, i34-i41		22
350	Improved analysis of Organic Rankine Cycle based on radial flow turbine. <i>Applied Thermal Engineering</i> , 2013 , 61, 606-615	5.8	65
349	Thermodynamic Analyses of Single Brayton and Combined Brayton Rankine Cycles for Distributed Solar Thermal Power Generation. <i>Energy</i> , 2013 , 135,		5
348	Bottoming organic Rankine cycle for a small scale gas turbine: A comparison of different solutions. <i>Applied Energy</i> , 2013 , 106, 355-364	10.7	68
347	Experimental investigation of R227ea applied as working fluid in the ORC power plant with hermetic turbogenerator. <i>Applied Thermal Engineering</i> , 2013 , 56, 126-133	5.8	30
346	A review of chemical heat pumps, thermodynamic cycles and thermal energy storage technologies for low grade heat utilisation. <i>Applied Thermal Engineering</i> , 2013 , 50, 1257-1273	5.8	138
345	Comparison and Optimization of Mid-low Temperature Cogeneration Systems for Flue Gas in Iron and Steel Plants. <i>Energy</i> , 2013 , 20, 33-40		7
344	Systematic comparison of ORC configurations by means of comprehensive performance indexes. <i>Applied Thermal Engineering</i> , 2013 , 61, 129-140	5.8	118
343	Dynamic performance estimation of small-scale solar cogeneration with an organic Rankine cycle using a scroll expander. <i>Applied Thermal Engineering</i> , 2013 , 51, 1307-1316	5.8	105

342	Modeling turbo-expander systems. 2013 , 89, 234-248		6
341	Experimental verification of a rolling-piston expander that applied for low-temperature Organic Rankine Cycle. <i>Applied Energy</i> , 2013 , 112, 1265-1274	10.7	76
340	Quasi-dynamic model for an organic Rankine cycle. <i>Energy Conversion and Management</i> , 2013 , 72, 117-124	10.6	35
339	A review of working fluid and expander selections for organic Rankine cycle. 2013 , 24, 325-342		848
338	Techno-economic survey of Organic Rankine Cycle (ORC) systems. 2013 , 22, 168-186		883
337	Experimental tests and modelization of a domestic-scale ORC (Organic Rankine Cycle). <i>Energy</i> , 2013 , 58, 107-116	7.9	102
336	Examination of the expander leaving loss in variable organic Rankine cycle operation. <i>Energy Conversion and Management</i> , 2013 , 65, 66-74	10.6	24
335	Experiment on pumpless Rankine-type cycle with scroll expander. <i>Energy</i> , 2013 , 49, 137-145	7.9	50
334	Generalized predictive control applied in waste heat recovery power plants. <i>Applied Energy</i> , 2013 , 102, 320-326	10.7	77
333	Sizing models and performance analysis of volumetric expansion machines for waste heat recovery through organic Rankine cycles on passenger cars. 2013 , 431-443		2
332	Energy recovery using sliding vane rotary expanders. 2013 , 183-194		9
331	The Application of Rotary Vane Expanders in Organic Rankine Cycle Systems—Thermodynamic Description and Experimental Results. 2013 , 135,		42
330	Evaluation of the Energy Performance of an Organic Rankine Cycle-Based Micro Combined Heat and Power System Involving a Hermetic Scroll Expander. 2013 , 135,		18
329	Geometric Design of Scroll Expanders Optimized for Small Organic Rankine Cycles. 2013 , 135,		16
328	Development and Characterization of Small-Scale ORC System Using Scroll Expander. 2013 , 291-294, 1627-1630		7
327	Experimental Evaluation of the Regenerative and Basic Organic Rankine Cycles for Low-Grade Heat Source Utilization. 2013 , 139, 190-197		16
326	Selecting an Expansion Machine for Vehicle Waste-Heat Recovery Systems Based on the Rankine Cycle. 2013 ,		12
325	. 2014 ,		

324	. 2014,		2
323	Performance of a 5 kWe Solar-only Organic Rankine Unit Coupled to a Reverse Osmosis Plant. <i>Energy Procedia</i> , 2014 , 49, 2251-2260	2.3	23
322	Development and dynamic characteristics of an Organic Rankine Cycle. 2014 , 59, 4367-4378		11
321	Design, Analysis and Optimization of a Micro-CHP System Based on Organic Rankine Cycle for Ultralow Grade Thermal Energy Recovery. 2014 , 136,		23
320	Simulation of a Novel solar Assisted Combined Heat Pump (Organic Rankine Cycle System). <i>Energy Procedia</i> , 2014 , 61, 2101-2104	2.3	2
319	Study on the Characteristics of Expander Power Output Used for Offsetting Pumping Work Consumption in Organic Rankine Cycles. <i>Energies</i> , 2014 , 7, 4957-4971	3.1	8
318	Optimization of Design Pressure Ratio of Positive Displacement Expander for Vehicle Engine Waste Heat Recovery. <i>Energies</i> , 2014 , 7, 6105-6117	3.1	14
317	Experimental Investigation of the Performance of a Hermetic Screw-Expander Organic Rankine Cycle. <i>Energies</i> , 2014 , 7, 6172-6185	3.1	44
316	Comparison and Impact of Waste Heat Recovery Technologies on Passenger Car Fuel Consumption in a Normalized Driving Cycle. <i>Energies</i> , 2014 , 7, 5273-5290	3.1	38
315	Design, Modeling and Experimentation of a Reversible HP-ORC Prototype. 2014 ,		9
314	Modelling and testing of a hybrid solar-biomass ORC-based micro-CHP system. <i>International Journal of Energy Research</i> , 2014 , 38, 1039-1052	4.5	24
313	Demonstration of 10-Wp micro organic Rankine cycle generator for low-grade heat recovery. <i>Energy</i> , 2014 , 78, 806-813	7.9	22
312	Comparison and performance analysis of the novel revolving vane expander design variants in low and medium pressure applications. <i>Energy</i> , 2014 , 78, 747-757	7.9	9
311	Conceptual Modeling of Nano Fluid ORC for Solar Thermal Polygeneration. <i>Energy Procedia</i> , 2014 , 57, 2696-2705	2.3	18
310	Simulation and experimental research on energy conversion efficiency of scroll expander for micro-Compressed Air Energy Storage system. <i>International Journal of Energy Research</i> , 2014 , 38, 884-895	4.5	10
309	Operating maps of a rotary engine used as an expander for micro-generation with various working fluids. <i>Applied Energy</i> , 2014 , 113, 742-750	10.7	53
308	Preliminary experimental investigation of a natural gas-fired ORC-based micro-CHP system for residential buildings. <i>Applied Thermal Engineering</i> , 2014 , 69, 221-229	5.8	40
307	Development and experimental study on organic Rankine cycle system with single-screw expander for waste heat recovery from exhaust of diesel engine. <i>Energy</i> , 2014 , 77, 499-508	7.9	141

306	Micro-scale ORC-based combined heat and power system using a novel scroll expander. 2014 , 9, 91-99		24
305	Design of the ORC (organic Rankine cycle) condensation temperature with respect to the expander characteristics for domestic CHP (combined heat and power) applications. <i>Energy</i> , 2014 , 77, 579-590	7.9	21
304	Critical temperature criterion for selection of working fluids for subcritical pressure Organic Rankine cycles. <i>Energy</i> , 2014 , 74, 719-733	7.9	98
303	Experimental study and CFD approach for scroll type expander used in low-temperature organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2014 , 73, 1444-1452	5.8	62
302	Applicability of entropy, entransy and exergy analyses to the optimization of the Organic Rankine Cycle. <i>Energy Conversion and Management</i> , 2014 , 88, 267-276	10.6	27
301	Chemisorption cooling and electric power cogeneration system driven by low grade heat. <i>Energy</i> , 2014 , 72, 590-598	7.9	28
300	Minimum variance control of organic Rankine cycle based waste heat recovery. <i>Energy Conversion and Management</i> , 2014 , 86, 576-586	10.6	42
299	Modelling the performance of a scroll expander for small organic Rankine cycles when changing the working fluid. <i>Applied Thermal Engineering</i> , 2014 , 70, 1040-1049	5.8	50
298	Impact of built-in and actual expansion ratio difference of expander on ORC system performance. <i>Applied Thermal Engineering</i> , 2014 , 71, 548-558	5.8	28
297	Performance of a 5kWe Organic Rankine Cycle at part-load operation. <i>Applied Energy</i> , 2014 , 120, 147-158	10.7	58
296	Analysis of a Low Concentration Solar Plant with Compound Parabolic Collectors and a Rotary Expander for Electricity Generation. <i>Energy Procedia</i> , 2014 , 45, 170-179	2.3	23
295	Experimental and Numerical Analysis of the Valve Timing Effects on the Performances of a Small Volumetric Rotary Expansion Device. <i>Energy Procedia</i> , 2014 , 45, 1077-1086	2.3	22
294	Advances and challenges in ORC systems modeling for low grade thermal energy recovery. <i>Applied Energy</i> , 2014 , 121, 79-95	10.7	147
293	Modeling and constrained multivariable predictive control for ORC (Organic Rankine Cycle) based waste heat energy conversion systems. <i>Energy</i> , 2014 , 66, 128-138	7.9	66
292	Experimental investigation of a biomass-fuelled micro-scale tri-generation system with an organic Rankine cycle and liquid desiccant cooling unit. <i>Energy</i> , 2014 , 71, 80-93	7.9	59
291	Characterization and modeling of a scroll expander with air and ammonia as working fluid. <i>Applied Thermal Engineering</i> , 2014 , 70, 630-640	5.8	31
290	A study of the optimal operating conditions in the organic Rankine cycle using a turbo-expander for fluctuations of the available thermal energy. <i>Energy</i> , 2014 , 64, 900-911	7.9	40
289	Experimental Study on the Organic Rankine Cycle Power System Adopting Dual Expanders in Parallel. 2014 ,		2

288	Combined Heat and Power Generation from Biomass. 2014 , 431-460		
287	Numerical and Experimental Analysis of the Intake and Exhaust Valves of a Rotary Expansion Device for Micro generation. <i>Energy Procedia</i> , 2015 , 81, 461-471	2.3	7
286	Experimental Investigation of a Scroll Expander for Power Generation Part of a Resorption Cogeneration. <i>Energy Procedia</i> , 2015 , 75, 1027-1032	2.3	3
285	Organic Rankine Cycles Including Fluid Selection. 2015 , 1-33		1
284	Experimental performance of a piston expander in a small- scale organic Rankine cycle. 2015 , 90, 012066		21
283	Experimental investigation of the ORC system in a cogenerative domestic power plant with a scroll expanders. 2015 , 5,		13
282	Analysis and Comparison Between Fixed and Variable Volume Ratio Expander for Micro-Scale ORC. 2015 ,		1
281	Low-order models of a single-screw expander for organic Rankine cycle applications. 2015 , 90, 012061		4
280	Modeling and Analysis of Scroll Compressor Conversion into an Expander for Rankine Cycles. <i>International Journal of Green Energy</i> , 2015 , 12, 672-684	3	3
279	Experimental study on the performance of single-screw expander with different inlet vapor dryness. <i>Applied Thermal Engineering</i> , 2015 , 87, 34-40	5.8	32
278	Thermal matching performance of a geothermal ORC system using zeotropic working fluids. <i>Renewable Energy</i> , 2015 , 80, 746-754	8.1	32
277	Design and testing of an algebraic scroll expander for power generation from a waste heat recovery system. 2015 , 229, 1019-1031		2
276	Comparative investigation of working fluids for an organic Rankine cycle with geothermal water. 2015 , 36, 75-84		
275	Dynamic Simulation and Optimization of an Experimental Micro-CSP Power Plant. 2015 ,		5
274	State of Art on ORC Applications for Waste Heat Recovery and Micro-cogeneration for Installations up to 100kWe. <i>Energy Procedia</i> , 2015 , 82, 994-1001	2.3	20
273	Experimental Study of the Influence of Light Intensity on Solar ORC Power Generation System. 2015 ,		
272	Integrated Modelling and Multi-Objective Optimization of Organic Rankine Cycle Based on Radial Inflow Turbine. 2015 ,		2
271	Analysis of a scroll machine for micro ORC applications by means of a RE/CFD methodology. <i>Applied Thermal Engineering</i> , 2015 , 80, 132-140	5.8	39

270	Experimental characterization of an Organic Rankine Cycle (ORC) for micro-scale CHP applications. <i>Applied Thermal Engineering</i> , 2015 , 79, 1-8	5.8	53
269	Experimental Study and Numerical Simulation of a Regenerative ORC Utilizing Low-Grade Heat Source. 2015 , 141, 04014011		7
268	Experimental characterization of an ORC (organic Rankine cycle) for power and CHP (combined heat and power) applications from low grade heat sources. <i>Energy</i> , 2015 , 82, 269-276	7.9	36
267	An investigation of design concepts and control strategies of a double-stage expansion solar organic Rankine cycle. 2015 , 34, 446-467		13
266	A methodology to assess suitability of a site for small scale wet and dry CSP systems. <i>International Journal of Energy Research</i> , 2015 , 39, 1094-1108	4.5	5
265	Experimental investigation of a reversible heat pump/organic Rankine cycle unit designed to be coupled with a passive house to get a Net Zero Energy Building. <i>International Journal of Refrigeration</i> , 2015 , 54, 190-203	3.8	43
264	Design and experimental investigation of a 1kW organic Rankine cycle system using R245fa as working fluid for low-grade waste heat recovery from steam. <i>Energy Conversion and Management</i> , 2015 , 103, 1089-1100	10.6	103
263	Electrical production of a small size Concentrated Solar Power plant with compound parabolic collectors. <i>Renewable Energy</i> , 2015 , 83, 1110-1118	8.1	26
262	Experimental study on low-temperature organic Rankine cycle utilizing scroll type expander. <i>Applied Energy</i> , 2015 , 155, 150-159	10.7	99
261	Experimental and thermodynamic analysis of a bottoming Organic Rankine Cycle (ORC) of gasoline engine using swash-plate expander. <i>Energy Conversion and Management</i> , 2015 , 103, 519-532	10.6	65
260	Design and optimization of cascade organic Rankine cycle for recovering cryogenic energy from liquefied natural gas using binary working fluid. <i>Energy</i> , 2015 , 88, 304-313	7.9	31
259	Experimental investigation of an organic Rankine cycle with multiple expanders used in parallel. <i>Applied Energy</i> , 2015 , 145, 246-254	10.7	49
258	Experimental study of an ORC (organic Rankine cycle) for low grade waste heat recovery in a ceramic industry. <i>Energy</i> , 2015 , 85, 534-542	7.9	111
257	Design, construction, and preliminary results of a 250-kW organic Rankine cycle system. <i>Applied Thermal Engineering</i> , 2015 , 80, 339-346	5.8	44
256	Parametric analysis and optimization of a small-scale radial turbine for Organic Rankine Cycle. <i>Energy</i> , 2015 , 83, 696-711	7.9	66
255	Simulation of a solar assisted combined heat pump [Organic rankine cycle system. <i>Energy Conversion and Management</i> , 2015 , 102, 151-160	10.6	20
254	Review of organic Rankine cycle (ORC) architectures for waste heat recovery. 2015 , 47, 448-461		401
253	New insights in twin screw expander performance for small scale ORC systems from 3D CFD analysis. <i>Applied Thermal Engineering</i> , 2015 , 91, 535-546	5.8	51

252	Operation of an organic Rankine cycle dependent on pumping flow rates and expander torques. <i>Energy</i> , 2015 , 90, 864-878	7.9	38
251	Unsteady flow in the suction process of a scroll expander for an ORC waste heat recovery system. <i>Applied Thermal Engineering</i> , 2015 , 78, 460-470	5.8	38
250	Comparative and parametric study of double flash and single flash/ORC combined cycles based on exergoeconomic criteria. <i>Applied Thermal Engineering</i> , 2015 , 91, 479-495	5.8	58
249	Experimental investigation on a small pumpless ORC (organic rankine cycle) system driven by the low temperature heat source. <i>Energy</i> , 2015 , 91, 324-333	7.9	43
248	Preliminary Mean-line Design and Optimization of a Radial Turbo-Expander for Waste Heat Recovery Using Organic Rankine Cycle. <i>Energy Procedia</i> , 2015 , 75, 860-866	2.3	10
247	Performance study of a twin-screw expander used in a geothermal organic Rankine cycle power generator. <i>Energy</i> , 2015 , 90, 631-642	7.9	61
246	Transcritical pressure Organic Rankine Cycle (ORC) analysis based on the integrated-average temperature difference in evaporators. <i>Applied Thermal Engineering</i> , 2015 , 88, 2-13	5.8	26
245	Experimental testing and numerical simulation of scroll expander in a small scale organic Rankine cycle system. <i>Applied Thermal Engineering</i> , 2015 , 87, 529-537	5.8	38
244	Characterising a turbine for application in an organic Rankine cycle. <i>Energy</i> , 2015 , 93, 1617-1632	7.9	9
243	Structural Optimization and Experimental Investigation of the Organic Rankine Cycle for Solar Thermal Power Generation. <i>Springer Theses</i> , 2015 ,	0.1	6
242	Operation and performance of a low temperature organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2015 , 75, 1065-1075	5.8	64
241	Discussion of the internal heat exchanger's effect on the Organic Rankine Cycle. <i>Applied Thermal Engineering</i> , 2015 , 75, 334-343	5.8	13
240	Theoretical and experimental research on scroll expander used in small-scale organic Rankine cycle system. 2015 , 229, 25-35		14
239	A review of scroll expanders for organic Rankine cycle systems. <i>Applied Thermal Engineering</i> , 2015 , 75, 54-64	5.8	138
238	Simulation and experiments on an ORC system with different scroll expanders based on energy and exergy analysis. <i>Applied Thermal Engineering</i> , 2015 , 75, 880-888	5.8	60
237	Performance evaluation of an Organic Rankine Cycle (ORC) for power applications from low grade heat sources. <i>Applied Thermal Engineering</i> , 2015 , 75, 763-769	5.8	43
236	Modeling and Experimental Validation of a Volumetric Expander Suitable for Waste Heat Recovery from an Automotive Internal Combustion Engine Using an Organic Rankine Cycle with Ethanol. <i>Energies</i> , 2016 , 9, 279	3.1	15
235	Preliminary Development of a Free Piston Expander-Linear Generator for Small-Scale Organic Rankine Cycle (ORC) Waste Heat Recovery System. <i>Energies</i> , 2016 , 9, 300	3.1	31

234	Development and a Validation of a Charge Sensitive Organic Rankine Cycle (ORC) Simulation Tool. <i>Energies</i> , 2016 , 9, 389	3.1	22
233	Slide Valves for Single-Screw Expanders Working Under Varied Operating Conditions. <i>Energies</i> , 2016 , 9, 478	3.1	5
232	Experimental and Potential Analysis of a Single-Valve Expander for Waste Heat Recovery of a Gasoline Engine. <i>Energies</i> , 2016 , 9, 1001	3.1	1
231	Thermo-economic evaluation of ORCs for various working fluids. <i>Applied Thermal Engineering</i> , 2016 , 109, 841-853	5.8	33
230	Experimental Study of the Influence of Light Intensity on Solar Organic Rankine Cycle Power Generation System. 2016 , 138,		4
229	Modeling of Organic Rankine Cycle for waste heat recovery using RBF neural networks. 2016 ,		0
228	The design and construction of a bench-top Organic Rankine Cycle for data center applications. 2016 ,		1
227	Experimental study of an oil-free steam piston expander for micro-combined heat and power systems. <i>Applied Energy</i> , 2016 , 169, 788-798	10.7	25
226	Feasibility analysis and performance characteristics investigation of spatial recuperative expander based on organic Rankine cycle for waste heat recovery. <i>Energy Conversion and Management</i> , 2016 , 121, 335-348	10.6	7
225	Dynamic modelling of a low-concentration solar power plant: A control strategy to improve flexibility. <i>Renewable Energy</i> , 2016 , 95, 574-585	8.1	19
224	Experimental investigation and modeling of a hermetic scroll expander. <i>Applied Energy</i> , 2016 , 181, 256-267	7	31
223	Design of a Nonlinear, Dynamic Feedforward Part for the Evaporator Control of an Organic Rankine Cycle in Heavy Duty Vehicles. 2016 , 49, 625-632		9
222	Development and experimental study on a single screw expander integrated into an Organic Rankine Cycle. <i>Energy</i> , 2016 , 116, 43-52	7.9	53
221	Performance characteristics of a 200-kW organic Rankine cycle system in a steel processing plant. <i>Applied Energy</i> , 2016 , 183, 623-635	10.7	41
220	Experimental comparison of R123 and R245fa as working fluids for waste heat recovery from heavy-duty diesel engine. <i>Energy</i> , 2016 , 115, 756-769	7.9	59
219	Geothermal Energy and Organic Rankine Cycle Machines. 2016 , 310-317		1
218	Experimental investigation of a 250-kW turbine organic Rankine cycle system for low-grade waste heat recovery. <i>International Journal of Green Energy</i> , 2016 , 13, 1442-1450	3	9
217	The Experimental Investigation of Scroll Expanders Operating in the ORC System with HFE7100 as a Working Medium. 2016 , 831, 245-255		4

216	Development of a generic tool to design scroll expanders for ORC applications. <i>Applied Thermal Engineering</i> , 2016 , 109, 878-888	5.8	19
215	A review of micro combined heat and power systems for residential applications. 2016 , 64, 144-162		100
214	Experimental study of an ORC (Organic Rankine Cycle) and analysis of R1233zd-E as a drop-in replacement for R245fa for low temperature heat utilization. <i>Energy</i> , 2016 , 103, 660-671	7.9	103
213	Volumetric expanders for low grade heat and waste heat recovery applications. 2016 , 57, 1090-1109		164
212	Effect of resistive load on the performance of an organic Rankine cycle with a scroll expander. <i>Energy</i> , 2016 , 95, 21-28	7.9	13
211	A semi-empirical method for assessing the performance of an open-drive screw refrigeration compressor. <i>Applied Thermal Engineering</i> , 2016 , 93, 813-823	5.8	21
210	EnergyExergy analysis and economic investigation of a cogeneration and trigeneration ORC/VCC hybrid system utilizing biomass fuel and solar power. <i>Energy Conversion and Management</i> , 2016 , 107, 103-113	10.6	169
209	Thermo-economic optimization of synthesis, design and operation of a marine organic Rankine cycle system. 2017 , 231, 137-152		6
208	Study on the performance and optimization of a scroll expander driven by compressed air. <i>Applied Energy</i> , 2017 , 186, 347-358	10.7	23
207	PLS-based multi-loop robust H2 control for improvement of operating efficiency of waste heat energy conversion systems with organic Rankine cycle. <i>Energy</i> , 2017 , 123, 460-472	7.9	13
206	Integrated thermoeconomic optimization of standard and regenerative ORC for different heat source types and capacities. <i>Energy</i> , 2017 , 121, 570-598	7.9	49
205	Modelling of organic Rankine cycle power systems in off-design conditions: An experimentally-validated comparative study. <i>Energy</i> , 2017 , 123, 710-727	7.9	49
204	Mathematical modeling of torque for single screw expanders. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 429-436	1.6	7
203	Improving the semi-empirical modelling of a single-screw expander for small organic Rankine cycles. <i>Applied Energy</i> , 2017 , 193, 356-368	10.7	51
202	Reverse osmosis desalination powered by photovoltaic and solar Rankine cycle power systems: A review. 2017 , 73, 789-797		77
201	Organic Rankine cycle design and performance comparison based on experimental database. <i>Applied Energy</i> , 2017 , 204, 1172-1187	10.7	97
200	Design and experimental study of a small-sized organic Rankine cycle system under various cooling conditions. <i>Energy</i> , 2017 , 130, 236-245	7.9	17
199	Experimental and modeling investigation of an organic Rankine cycle system based on the scroll expander. <i>Energy</i> , 2017 , 134, 35-49	7.9	20

198	Evaluating Applicability of a Scroll Expander for CO ₂ Refrigeration System at Warm Climate. 2017 , 25, 1750012		3
197	Experimental study on a bifunctional heat utilization system of heat pump and power generation using low-grade heat source. <i>Applied Thermal Engineering</i> , 2017 , 124, 71-82	5.8	11
196	A novel design methodology for waste heat recovery systems using organic Rankine cycle. <i>Energy Conversion and Management</i> , 2017 , 142, 1-12	10.6	13
195	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. <i>Applied Energy</i> , 2017 , 204, 979-993	10.7	20
194	Review of organic Rankine cycle for small-scale applications. <i>Energy Conversion and Management</i> , 2017 , 134, 135-155	10.6	188
193	Parametric study and performance evaluation of an organic Rankine cycle (ORC) system using low-grade heat at temperatures below 80 °C. <i>Applied Energy</i> , 2017 , 189, 55-65	10.7	40
192	Experimental testing of a small-scale two stage Organic Rankine Cycle engine operating at low temperature. <i>Energy</i> , 2017 , 141, 869-879	7.9	17
191	Assessing the performance of a scroll expander with a selection of fluids suitable for low-temperature applications. <i>Energy Procedia</i> , 2017 , 126, 493-500	2.3	1
190	Simulation and Design Tool for ORC Axial Turbine Stage. <i>Energy Procedia</i> , 2017 , 129, 277-284	2.3	11
189	Control variables and strategies for the optimization of a WHR ORC system. <i>Energy Procedia</i> , 2017 , 129, 583-590	2.3	6
188	Impact of major leakages on characteristics of a rotary vane expander for ORC. <i>Energy Procedia</i> , 2017 , 129, 387-394	2.3	22
187	Modeling and performance analysis of twin-screw steam expander under fluctuating operating conditions in steam pipeline pressure energy recovery applications. <i>Energy</i> , 2017 , 141, 692-701	7.9	28
186	Experimental and Numerical Characterization of an Oil-Free Scroll Expander. <i>Energy Procedia</i> , 2017 , 129, 403-410	2.3	6
185	Performances of an ORC power unit for Waste Heat Recovery on Heavy Duty Engine. <i>Energy Procedia</i> , 2017 , 129, 770-777	2.3	24
184	Experimental Investigation of a Transcritical Organic Rankine Cycle with Scroll Expander for Low Temperature Waste Heat Recovery. <i>Energy Procedia</i> , 2017 , 129, 810-817	2.3	17
183	Experimental investigation into an ORC-based low-grade energy recovery system equipped with sliding-vane expander using hot oil from an air compressor as thermal source. <i>Energy Procedia</i> , 2017 , 129, 339-346	2.3	10
182	Investigate a hybrid open-Rankine cycle small-scale axial nitrogen expander by a camber line control point parameterization optimization technique. <i>Applied Thermal Engineering</i> , 2017 , 127, 823-836	5.8	8
181	Parametric study for small scale engine coolant and exhaust heat recovery system using different Organic Rankine cycle layouts. <i>Applied Thermal Engineering</i> , 2017 , 127, 1252-1266	5.8	27

180	Low grade waste heat recovery using diethyl ether thermo-fluid diaphragm engine. <i>Applied Thermal Engineering</i> , 2017 , 127, 944-949	5.8	2
179	A numerical model for the prediction of the fluid dynamic and mechanical losses of a Wankel-type expansion device. <i>Applied Energy</i> , 2017 , 205, 225-235	10.7	8
178	Micro-combined heat and power systems (micro-CHP) based on renewable energy sources. <i>Energy Conversion and Management</i> , 2017 , 154, 262-285	10.6	107
177	Experimental Results of a Wankel-type Expander Fuelled by Compressed Air and Saturated Steam. <i>Energy Procedia</i> , 2017 , 105, 2929-2934	2.3	7
176	Working fluid charge oriented off-design modeling of a small scale Organic Rankine Cycle system. <i>Energy Conversion and Management</i> , 2017 , 148, 944-953	10.6	27
175	Operation characteristic of a R123-based organic Rankine cycle depending on working fluid mass flow rates and heat source temperatures. <i>Energy Conversion and Management</i> , 2017 , 131, 55-68	10.6	35
174	Transient modeling of a gas-liquid piston-cylinder mechanism for low temperature energy conversion applications. 2017 , 111, 525-532		2
173	Testing and modelling of a novel oil-free co-rotating scroll machine with water injection. <i>Applied Energy</i> , 2017 , 185, 201-213	10.7	19
172	Dynamic modelling and experimental validation of scroll expander for small scale power generation system. <i>Applied Energy</i> , 2017 , 186, 262-281	10.7	29
171	Experimental investigation on the performance of ORC power system using zeotropic mixture R601a/R600a. <i>International Journal of Energy Research</i> , 2017 , 41, 673-688	4.5	18
170	Micro-Organic Rankine Cycle systems for domestic cogeneration. 2017 , 637-668		3
169	The maximum power point tracking (MPPT) of low temperature waste heat power generation system with Organic Rankine Cycle (ORC). 2017 ,		0
168	Development of a sliding vane expander in a micro-scale ORC system for utilizing low-grade heat. <i>Energy Procedia</i> , 2017 , 138, 817-822	2.3	6
167	Small Scale Organic Rankine Cycle (ORC): A Techno-Economic Review. <i>Energies</i> , 2017 , 10, 413	3.1	97
166	The Exergy Loss Distribution and the Heat Transfer Capability in Subcritical Organic Rankine Cycle. 2017 , 19, 256		5
165	Energy, Exergy and Economic Evaluation Comparison of Small-Scale Single and Dual Pressure Organic Rankine Cycles Integrated with Low-Grade Heat Sources. 2017 , 19, 476		21
164	Performance Study on a Single-Screw Expander for a Small-Scale Pressure Recovery System. <i>Energies</i> , 2017 , 10, 6	3.1	14
163	Thermoeconomic Evaluation of Modular Organic Rankine Cycles for Waste Heat Recovery over a Broad Range of Heat Source Temperatures and Capacities. <i>Energies</i> , 2017 , 10, 269	3.1	20

162	Thermodynamic Analysis of ORC and Its Application for Waste Heat Recovery. 2017 , 9, 1974		11
161	Optimal selection of air expansion machine in Compressed Air Energy Storage: A review. 2018 , 87, 77-95		59
160	Investigation of a scroll expander driven by compressed air and its potential applications to ORC. <i>Applied Thermal Engineering</i> , 2018 , 135, 109-115	5.8	19
159	Artificial neural network (ANN) based prediction and optimization of an organic Rankine cycle (ORC) for diesel engine waste heat recovery. <i>Energy Conversion and Management</i> , 2018 , 164, 15-26	10.6	99
158	The fluid-thermal-solid coupling analysis of a scroll expander used in an ORC waste heat recovery system. <i>Applied Thermal Engineering</i> , 2018 , 138, 72-82	5.8	6
157	Influence of inlet pressure and rotational speed on the performance of high pressure single screw expander prototype. <i>Energy</i> , 2018 , 147, 279-285	7.9	20
156	Charge-sensitive modelling of organic Rankine cycle power systems for off-design performance simulation. <i>Applied Energy</i> , 2018 , 212, 1262-1281	10.7	29
155	Issues, comparisons, turbine selections and applications [An overview in organic Rankine cycle. <i>Energy Conversion and Management</i> , 2018 , 166, 474-488	10.6	71
154	Organic Rankine Cycle-assisted ground source heat pump combisystem for space heating in cold regions. <i>Energy Conversion and Management</i> , 2018 , 165, 195-205	10.6	16
153	On the conceptual design of the novel balanced rolling piston expander. 2018 , 12, 38-46		6
152	Model-based control of exhaust heat recovery in a heavy-duty vehicle. 2018 , 70, 15-28		16
151	Semi-empirical model of a multi-diaphragm pump in an Organic Rankine Cycle (ORC) experimental unit. <i>Energy</i> , 2018 , 143, 1056-1071	7.9	16
150	Simulation, construction and evaluation of cheap piston expander for low-pressure power generation by compressed air as working fluid. <i>Energy</i> , 2018 , 142, 655-665	7.9	2
149	Performance evaluation of a CO2 scroll expander for work recovery using artificial neural network. 2018 , 24, 580-587		1
148	Design and development of a 10-kWe ORC installation working with low-temperature sources. 2018 , 37, 857-872		4
147	The Development and Application of Organic Rankine Cycle for Vehicle Waste Heat Recovery. 2018 , ,		1
146	Optimized coupling analysis of Internal Combustion Engine (ICE)-ORC-MCRS. 2018 , 444, 082003		
145	Thermodynamic simulation of a small-scale organic Rankine cycle testing facility? using R245fa. <i>Energy Procedia</i> , 2018 , 148, 66-73	2.3	4

144	Experimental and numerical characterization of a positive displacement vane expander with an auxiliary injection port for an ORC-based power unit. <i>Energy Procedia</i> , 2018 , 148, 830-837	2.3	6
143	Parameters identification for scroll expander semi-empirical model by using genetic algorithm. <i>Energy Procedia</i> , 2018 , 148, 736-743	2.3	1
142	Experimental and numerical analyses of a 5 kWe oil-free open-drive scroll expander for small-scale organic Rankine cycle (ORC) applications. <i>Applied Energy</i> , 2018 , 230, 1140-1156	10.7	42
141	Performance characteristics and working fluid selection for low-temperature binary-flashing cycle. <i>Applied Thermal Engineering</i> , 2018 , 141, 51-60	5.8	14
140	Experimental characterization and comparison of an axial and a cantilever micro-turbine for small-scale Organic Rankine Cycle. <i>Applied Thermal Engineering</i> , 2018 , 140, 235-244	5.8	42
139	Effects of physical and chemical properties of working fluids on thermodynamic performances of medium-low temperature organic Rankine cycles (ORCs). <i>Energy Conversion and Management</i> , 2018 , 171, 742-749	10.6	17
138	A Review of Modeling Approaches and Tools for the Off-design Simulation of Organic Rankine Cycle. <i>Journal of Thermal Science</i> , 2018 , 27, 305-320	1.9	22
137	A review of scroll expander geometries and their performance. <i>Applied Thermal Engineering</i> , 2018 , 141, 1020-1034	5.8	32
136	Dimensionless correlations and performance maps of scroll expanders for micro-scale Organic Rankine Cycles. <i>Energy</i> , 2018 , 156, 520-533	7.9	18
135	Characterization of Limacon Gas Expanders With Consideration to the Dynamics of Apex Seals and Inlet Control Valve. 2018 , 140,		1
134	Experimental results of a small-scale organic Rankine cycle: Steady state identification and application to off-design model validation. <i>Applied Energy</i> , 2018 , 226, 82-106	10.7	20
133	Design and optimization of a Tesla turbine for ORC applications. <i>Applied Energy</i> , 2018 , 226, 300-319	10.7	31
132	The impact of a bilateral symmetric discharge structure on the performance of a scroll expander for ORC power generation system. <i>Energy</i> , 2018 , 158, 458-470	7.9	17
131	Experimental comparison and optimization guidance of R1233zd(E) as a drop-in replacement to R245fa for organic Rankine cycle application. <i>Applied Thermal Engineering</i> , 2018 , 141, 10-19	5.8	36
130	Modeling and optimization criteria of scroll expander integrated into organic Rankine cycle for comparison of R1233zd(E) as an alternative to R245fa. <i>Applied Thermal Engineering</i> , 2018 , 141, 386-393	5.8	14
129	Multi-objective optimization of a novel reversible High-Temperature Heat Pump-Organic Rankine Cycle (HTHP-ORC) for industrial low-grade waste heat recovery. <i>Energy Conversion and Management</i> , 2019 , 197, 111908	10.6	30
128	Operational Optimisation of a Non-Recuperative 1-kWe Organic Rankine Cycle Engine Prototype. 2019 , 9, 3024		10
127	Experimental Investigation of a 300 kW Organic Rankine Cycle Unit with Radial Turbine for Low-Grade Waste Heat Recovery. 2019 , 21,		3

126	Working Fluid Selection for Organic Rankine Cycle Using Single-Screw Expander. <i>Energies</i> , 2019 , 12, 3197-3211	3.1	17
125	Experimental Study of a 1-kW Organic Rankine Cycle Using R245fa Working Fluid and a Scroll Expander: A Case Study. 2019 , 7, 154515-154523		4
124	Experimental investigation of a small-scale Organic Rankine Cycle under off-design conditions: From the perspective of data fluctuation. <i>Energy Conversion and Management</i> , 2019 , 198, 111826	10.6	4
123	Design of a rotary expander as an expansion device integrated into organic Rankine cycle (ORC) to recover low-grade waste heat. <i>Applied Thermal Engineering</i> , 2019 , 163, 114326	5.8	14
122	CFD analysis of variable wall thickness scroll expander integrated into small scale ORC systems. <i>Energy Procedia</i> , 2019 , 158, 2272-2277	2.3	7
121	Off-design operation of ORC engines with different heat exchanger architectures in waste heat recovery applications. <i>Energy Procedia</i> , 2019 , 158, 2348-2353	2.3	3
120	Performance prediction of a reciprocating piston expander with semi-empirical models. <i>Energy Procedia</i> , 2019 , 158, 1737-1743	2.3	5
119	Heat release modelling of a range extender scroll engine. <i>Energy Procedia</i> , 2019 , 158, 2039-2045	2.3	1
118	Off-design comparison of subcritical and partial evaporating ORCs in quasi-steady state annual simulations. <i>Energy Procedia</i> , 2019 , 158, 2064-2069	2.3	1
117	Theoretical and experimental investigations on the radial and axial leakages within a rotary vane expander. <i>Energy</i> , 2019 , 189, 116097	7.9	13
116	Test results for characterizing two in-series scroll expanders within a low-temperature ORC unit under partial heat load. <i>Applied Thermal Engineering</i> , 2019 , 163, 114389	5.8	7
115	Internal volume ratio optimization and performance analysis for single-screw expander in small-scale middle temperature ORC system. <i>Energy</i> , 2019 , 186, 115799	7.9	18
114	Analysis of Balje diagrams for a Wankel expander prototype. <i>Applied Energy</i> , 2019 , 238, 775-785	10.7	2
113	Analysis, economical and technical enhancement of an organic Rankine cycle recovering waste heat from an exhaust gas stream. 2019 , 7, 230-254		17
112	Modelling of scroll expander for different working fluids for low capacity power generation. <i>Applied Thermal Engineering</i> , 2019 , 159, 113932	5.8	4
111	Comparison of different ORC typologies for heavy-duty trucks by means of a thermo-economic optimization. <i>Energy</i> , 2019 , 182, 706-728	7.9	18
110	Experimental Investigation of a Small-Scale ORC Power Plant Using a Positive Displacement Expander with and without a Regenerator. <i>Energies</i> , 2019 , 12, 1452	3.1	3
109	Application and comparison of semi-empirical models for performance prediction of a kW-size reciprocating piston expander. <i>Applied Energy</i> , 2019 , 249, 143-156	10.7	14

108	Experimental study of the organic rankine cycle under different heat and cooling conditions. <i>Energy</i> , 2019 , 180, 678-688	7.9	15
107	A study on heat storage sizing and flow control for a domestic scale solar-powered organic Rankine cycle-vapour compression refrigeration system. <i>Renewable Energy</i> , 2019 , 143, 301-312	8.1	18
106	Experimental and numerical investigation of direct liquid injection into an ORC twin-screw expander. <i>Energy</i> , 2019 , 178, 867-878	7.9	10
105	Thermal and economic analysis on vehicle energy supplying system based on waste heat recovery organic Rankine cycle. <i>Applied Energy</i> , 2019 , 248, 241-255	10.7	26
104	A comprehensive review of organic rankine cycle waste heat recovery systems in heavy-duty diesel engine applications. 2019 , 107, 145-170		83
103	Optimization Study on Fluids for the Gravity-Driven Organic Power Cycle. <i>Energies</i> , 2019 , 12, 732	3.1	4
102	Energy and economic assessment of solar Organic Rankine Cycle for combined heat and power generation in residential applications. <i>Renewable Energy</i> , 2019 , 140, 461-476	8.1	39
101	Two-Phase Expander Approach for Next Generation of Heat Recovery Systems. 2019 , 8, 203-213		0
100	Modeling of Scroll Expander Based on Long Short-Term Memory Neural Network. 2019 ,		
99	Friction and leakage analysis of the blocker-type valve designed for a revolving vane expander. 2019 , 604, 012083		1
98	Two-phase and oil-free co-rotating scroll compressor/expander. <i>Applied Thermal Engineering</i> , 2019 , 148, 173-187	5.8	4
97	Performance of an Organic Rankine Cycle with two expanders at off-design operation. <i>Applied Thermal Engineering</i> , 2019 , 149, 688-701	5.8	8
96	Analysis of a novel rotating disk cylinder engine concept for power generation. <i>International Journal of Energy Research</i> , 2019 , 43, 580-588	4.5	
95	Experimental development of a kilowatt-scale biomass fired micro [CHP unit based on ORC with rotary vane expander. <i>Renewable Energy</i> , 2020 , 147, 2882-2895	8.1	21
94	Design and feasibility study of roots-type power machine rotor based on numerical simulation. <i>Neural Computing and Applications</i> , 2020 , 32, 223-234	4.8	
93	Design and Analysis of a Single-Stage Transonic Centrifugal Turbine for organic Rankine cycle (ORC). <i>Journal of Thermal Science</i> , 2020 , 29, 32-42	1.9	3
92	Thermal and Exergy Analysis of an Organic Rankine Cycle Power Generation System with Refrigerant R245fa. <i>Heat Transfer Engineering</i> , 2020 , 41, 905-918	1.7	2
91	Compression chamber volume analysis for co-rotating scroll compressors. <i>International Journal of Refrigeration</i> , 2020 , 112, 172-188	3.8	3

90	Influence of flank clearance on the performance of a scroll expander prototype. <i>Energy</i> , 2020 , 193, 116823	7.9	3
89	Numerical study of heat transfer influence on the performance of a single screw expander for Organic Rankine Cycle. <i>Energy</i> , 2020 , 193, 116683	7.9	9
88	Influence of Superheated Vapour in Organic Rankine Cycles with Working Fluid R123 Utilizing Low-Temperature Geothermal Resources. <i>Symmetry</i> , 2020 , 12, 1463	2.7	
87	Thermo-economic optimization of small-scale Organic Rankine Cycle: A case study for low-grade industrial waste heat recovery. <i>Energy</i> , 2020 , 213, 118898	7.9	5
86	Steady and dynamical analysis of a combined cooling and power cycle. <i>Thermal Science and Engineering Progress</i> , 2020 , 19, 100650	3.6	3
85	Replacement of R134a with low-GWP fluids in a kW-size reciprocating piston expander: Performance prediction and design optimization. <i>Energy</i> , 2020 , 206, 118174	7.9	3
84	CFD-based optimization of scroll compressor design and uncertainty quantification of the performance under geometrical variations. <i>Energy</i> , 2020 , 209, 118382	7.9	7
83	Development of a non-linear state estimator for advanced control of an ORC test rig for geothermal application. <i>Renewable Energy</i> , 2020 , 161, 676-690	8.1	7
82	Dynamic modeling and control strategies of organic Rankine cycle systems: Methods and challenges. <i>Applied Energy</i> , 2020 , 276, 115537	10.7	17
81	Assessing fuel consumption reduction in Revercycle, a reversible mobile air conditioning/ Organic Rankine Cycle system. <i>Energy</i> , 2020 , 210, 118588	7.9	3
80	Numerical and experimental investigation on thermal-hydraulic characteristics of a scroll expander for organic Rankine cycle. <i>Applied Energy</i> , 2020 , 278, 115672	10.7	7
79	Investigation of flow characteristics in a single screw expander: A numerical approach. <i>Energy</i> , 2020 , 213, 118730	7.9	10
78	Experimental Validation of a New Modeling for the Design Optimization of a Sliding Vane Rotary Expander Operating in an ORC-Based Power Unit. <i>Energies</i> , 2020 , 13, 4204	3.1	4
77	Investigation on the use of a novel regenerative flow turbine in a micro-scale Organic Rankine Cycle unit. <i>Energy</i> , 2020 , 210, 118519	7.9	9
76	Modelling and numerical simulation of a novel Pumpless Rankine Cycle (PRC). <i>Applied Thermal Engineering</i> , 2020 , 178, 115523	5.8	1
75	Investigation of an innovative PV/T-ORC system using amorphous silicon cells and evacuated flat plate solar collectors. <i>Energy</i> , 2020 , 203, 117873	7.9	7
74	Review of innovative approaches of thermo-mechanical refrigeration systems using low grade heat. <i>International Journal of Energy Research</i> , 2020 , 44, 9808-9838	4.5	11
73	Advanced ORC architecture for geothermal combined heat and power generation. <i>Energy</i> , 2020 , 205, 117967	7.9	26

72	Development of an organic Rankine cycle-based micro combined heat and power system for residential applications. <i>Applied Energy</i> , 2020 , 275, 115335	10.7	6
71	CFD modelling of small scale ORC scroll expanders using variable wall thicknesses. <i>Energy</i> , 2020 , 199, 117399	7.9	8
70	Evaluate the validity of the empirical correlations of clearance and friction coefficients to improve a scroll expander semi-empirical model. <i>Energy</i> , 2020 , 202, 117723	7.9	3
69	Compressed air energy storage systems: Components and operating parameters [A review]. <i>Journal of Energy Storage</i> , 2021 , 34, 102000	7.8	44
68	Experimental investigation, model validation and application of twin-screw expanders with different built-in volume ratios. <i>Applied Energy</i> , 2021 , 282, 116139	10.7	6
67	Experimental investigation of 3-kW organic Rankine cycle (ORC) system subject to heat source conditions: A new appraisal for assessment. <i>Energy</i> , 2021 , 217, 119342	7.9	6
66	Energy-based exergoeconomic and exergoenvironmental evaluation of a combined power and cooling system based on ORC-VCR. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1353-1372	4.1	3
65	Advanced high temperature heat pump configurations using low GWP refrigerants for industrial waste heat recovery: A comprehensive study. <i>Energy Conversion and Management</i> , 2021 , 229, 113752	10.6	15
64	Experimental investigation and modeling of a reciprocating piston expander for waste heat recovery from a truck engine. <i>Applied Thermal Engineering</i> , 2021 , 186, 116425	5.8	3
63	Experimental investigation of an Organic Rankine cycle system using an oil-free scroll expander for low grade heat recovery. <i>International Journal of Green Energy</i> , 2021 , 18, 812-821	3	2
62	Thermodynamic Analysis on the Reversibility of Compressor-expander. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-14	1.6	
61	Experimental study on the influence of inlet and exhaust pressure loss on the performance of single screw expanders. <i>Energy</i> , 2021 , 120912	7.9	1
60	Experimental modeling of a lubricated, open drive scroll expander for micro-scale organic Rankine cycle systems. <i>Applied Thermal Engineering</i> , 2021 , 190, 116784	5.8	5
59	Techno-Economic Optimization of Medium Temperature Solar-Driven Subcritical Organic Rankine Cycle. <i>Thermo</i> , 2021 , 1, 77-105		1
58	Thermo-economic analysis of the combined solar based pre-compression supercritical CO ₂ cycle and organic Rankine cycle using ultra low GWP fluids. <i>Thermal Science and Engineering Progress</i> , 2021 , 23, 100925	3.6	3
57	Parametric investigation of open-drive scroll expander for micro organic rankine cycle applications. <i>Journal of Thermal Engineering</i> , 1110-1120	1.1	
56	Numerical investigation of the energy performance of a solar micro-CHP unit. <i>Energy Conversion and Management</i> , 2021 , 243, 114425	10.6	1
55	A simulation and experimental study of an innovative MAC/ORC/ERC system: ReverCycle with an ejector for series hybrid vehicles. <i>Energy</i> , 2021 , 230, 120830	7.9	1

54	Experimental testing of scroll machine driven by compressed air for power generation and its integration in small scale organic Rankine cycle. <i>Journal of Thermal Engineering</i> , 1457-1467	1.1	
53	Analytical model for thermal efficiency of organic Rankine cycles, considering superheating, heat recovery, pump and expander efficiencies. <i>Energy Conversion and Management</i> , 2021 , 246, 114628	10.6	1
52	A geospatial analysis approach for the operational assessment of solar ORC systems. Case study: Performance evaluation of a two-stage solar ORC engine in Greece. <i>Renewable Energy</i> , 2022 , 181, 116-128	8.1	2
51	A micro-CHP system with organic Rankine cycle using R1223zd(E) and n-Pentane as working fluids. <i>Energy</i> , 2022 , 239, 121826	7.9	1
50	Solid Sorption Cycle for Energy Storage, Electricity Generation and Cogeneration. <i>Engineering Materials</i> , 2021 , 229-278	0.4	
49	Performance Evaluation and Comparison of Experimental Organic Rankine Cycle Prototypes from Published Data. <i>Energy Procedia</i> , 2017 , 105, 1706-1711	2.3	6
48	ORC System Performance Analysis upon R-245fa and Novec 649. <i>Transactions of the Korea Society of Geothermal Energy Engineers</i> , 2016 , 12, 17-23		1
47	Experimental Study on Heat Loss of a Single Screw Expander for an Organic Rankine Cycle System. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	2
46	Structured Mesh Generation and Numerical Analysis of a Scroll Expander in an Open-Source Environment. <i>Energies</i> , 2020 , 13, 666	3.1	7
45	Performance Analysis of Volumetric Expanders in Heavy-Duty Truck Waste Heat Recovery.		1
44	Experimental Study of Vane Expander Prototype Applied to Micro Organic Rankine Cycle. <i>Journal of Energy Engineering</i> , 2014 , 23, 230-235		1
43	Experimental Study on the Operating Characteristics of the Organic Rankine Cycle. <i>Korean Journal of Air-Conditioning and Refrigeration Engineering</i> , 2013 , 25, 208-215	0.5	5
42	Selection of Working fluid for the Organic Rankine Cycle to Utilize Low-Temperature Waste Heat. <i>New & Renewable Energy</i> , 2014 , 10, 36-46	0.4	1
41	Engineering design, test analysis, and exergy calculation of multifunctional adsorption systems using chemical adsorbent and different thermal transfer fluids. <i>Journal of Energy Storage</i> , 2021 , 44, 103412	7.8	
40	Operating Characteristics of a Scroll Expander Used in Organic Rankine Cycle. <i>Korean Journal of Air-Conditioning and Refrigeration Engineering</i> , 2011 , 23, 776-781	0.5	3
39	Optimization of Design Pressure Ratio of Positive Displacement Expander for Engine Waste Heat Recovery of Vehicle. <i>Journal of Energy Engineering</i> , 2012 , 21, 411-418		
38	Exergy Analysis of Scroll-Based Rankine Cycles with Various Working Fluids. 2014 , 197-232		
37	A Study on the Design of an Asymmetric Algebraic Scroll Expander. <i>Korean Journal of Air-Conditioning and Refrigeration Engineering</i> , 2014 , 26, 122-129	0.5	2

36	Optimal Operating Points on the Organic Rankine Cycle to Efficiently Regenerate Renewable Fluctuating Heat Sources. <i>New & Renewable Energy</i> , 2014 , 10, 6-19	0.4	2
35	Effects of Channel Amplitude Ratio on Flow and Heat Transfer Characteristics of Primary Surface Heat Exchanger for ORC. <i>Korean Journal of Air-Conditioning and Refrigeration Engineering</i> , 2014 , 26, 151-157	0.5	1
34	Experimental Study of the ORC Under Variable Condensation Temperature. <i>Springer Theses</i> , 2015 , 71-99	0.1	1
33	Gradual Progress in the Organic Rankine Cycle and Solar Thermal Power Generation. <i>Springer Theses</i> , 2015 , 1-29	0.1	0
32	Examination of Key Issues in Designing the ORC Condensation Temperature. <i>Springer Theses</i> , 2015 , 101-130	0.1	0
31	Design of Limestone Gas Expanders. 2016 , 91-119		0
30	Effects of two-phase expander on the thermoeconomics of organic double-flash cycles for geothermal power generation. <i>Energy</i> , 2022 , 239, 122346	7.9	3
29	Micro turbo expander design for small scale ORC.		1
28	OPTIMIZATION OF A SMALL SCALE CONCENTRATED SOLAR POWER PLANT USING RANKINE CYCLE. <i>Journal of Thermal Engineering</i> , 268-281	1.1	2
27	Experimental investigation on steady and dynamic performance of organic Rankine cycle with R245fa/R141b under different cooling and expander speed conditions. <i>Energy</i> , 2021 , 122511	7.9	0
26	Modeling and Validation of a Two-Phase Flow Valve for Expanders in Waste Heat Recovery. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	0
25	Theoretical modelling and experimental investigation of the modified revolving vane expander (M-RVE). <i>Energy Conversion and Management</i> , 2021 , 252, 114997	10.6	
24	Feasibility Assessment of a Dual Intake-Port Scroll Expander Operating in an ORC-Based Power Unit. <i>Energies</i> , 2022 , 15, 770	3.1	0
23	Study on the internal irreversible losses and process exponent of single screw expanders. <i>Journal of Mechanical Science and Technology</i> , 2022 , 36, 1569-1578	1.6	
22	Waste Heat Recovery Potential from Internal Combustion Engines Using Organic Rankine Cycle. <i>Energy, Environment, and Sustainability</i> , 2022 , 331-364	0.8	
21	Thermodynamic analyses and experimental investigations on the net efficiency of a small-scale organic Rankine cycle prototype. <i>International Journal of Energy Research</i> ,	4.5	0
20	Energy and Conventional and Advanced Exergy Analyses of Low-Temperature Geothermal Binary-Flashing Cycle Using Zeotropic Mixtures. <i>Energies</i> , 2022 , 15, 3487	3.1	0
19	Experimental investigation of a revolving vane expander in a micro-scale organic Rankine cycle system for low-grade waste heat recovery. <i>Energy</i> , 2022 , 253, 124174	7.9	1

18	Waste heat recovery research a systematic bibliometric analysis (1991 to 2020). <i>Environmental Science and Pollution Research</i> ,	5.1	0
17	Two-Phase Volumetric Expanders: A Review of the State-of-the-Art. <i>Energies</i> , 2022 , 15, 4991	3.1	1
16	Dynamic Modeling and Comparison Study of Control Strategies of a Small-Scale Organic Rankine Cycle. 2022 , 15, 5505		0
15	Experimental and numerical analysis of variable volume ratio as additional optimization parameter in organic Rankine cycle expanders. 2022 , 216, 119007		1
14	Two-phase expansion processes in heat pump ORC systems (Carnot batteries) with volumetric machines for enhanced off-design efficiency. 2022 , 199, 720-732		0
13	Performance Analysis of a Dual-loop Organic Rankine Cycle System for Waste Heat Recovery from Engine Coolant and Exhaust of a Heavy-Duty Truck. 2022 , 119203		0
12	Effect of cooling water flow on heat transfer performance of horizontal tube spray falling film evaporator in ORC system. 2022 , 8, 540-545		0
11	Dynamic modeling and optimization of organic Rankine cycle in the waste heat recovery of the hydraulic system. 2023 , 263, 125673		0
10	Adaptation of residential solar systems for domestic hot water (DHW) to hybrid organic Rankine Cycle (ORC) distributed generation. 2023 , 263, 125901		0
9	Semi-empirical modelling and analysis of single screw expanders considering inlet and exhaust pressure losses. 2023 , 266, 126356		0
8	Performance Investigation of Single Piston Free Piston Expander Linear Generator with Multi-Parameter Based on Simulation Model. 2022 , 15, 9078		0
7	Numerical Study on the effect of port geometry of intake manifold in a Steam Wankel Expander. 2022 , 101621		0
6	Working Fluid Distribution and Charge Regulation Control in Organic Rankine Cycle.		0
5	Dynamic Simulation of Partial Load Operation of an Organic Rankine Cycle with Two Parallel Expanders. 2023 , 16, 519		0
4	Low-temperature waste heat recovery from internal combustion engines and power output improvement through dual-expander organic Rankine cycle technology. 095440702211441		0
3	Experimental study of an organic Rankine cycle with a variable-rotational-speed scroll expander at various heat source temperatures. 2023 , 270, 126956		0
2	Analysis of the generation potential of hybrid solar power plants. 11,		0
1	INVESTIGATION OF OPERATING MODES OF CIRCUITS WITH EXPANDER-GENERATOR UNITS IN COGENERATION BOILERS WITH GAS-PISTON INTERNAL COMBUSTION ENGINES. 2022 , 22, 77-86		0

