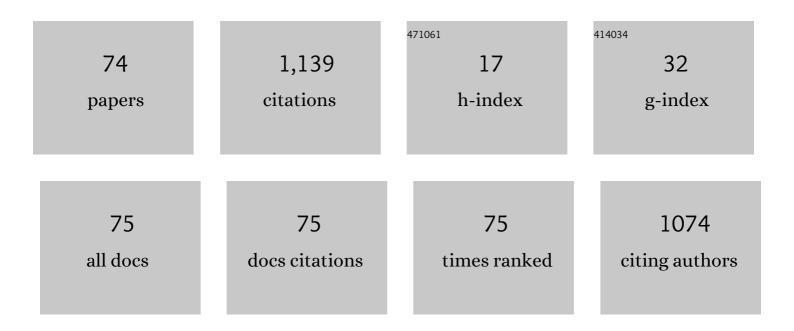
Teemu Turunen-Saaresti

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Organic Rankine Cycle Power Systems: From the Concept to Current Technology, Applications, and an Outlook to the Future. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	0.5	272
2	Results of the International Wet Steam Modeling Project. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2018, 232, 550-570.	0.8	60
3	Thermodynamic and turbomachinery design analysis of supercritical Brayton cycles for exhaust gas heat recovery. Energy, 2019, 167, 60-79.	4.5	58
4	Thermodynamic evaluation on the effect of working fluid type and fluids critical properties on design and performance of Organic Rankine Cycles. Journal of Cleaner Production, 2018, 188, 253-263.	4.6	57
5	Computational Study of a High-Expansion Ratio Radial Organic Rankine Cycle Turbine Stator. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	0.5	50
6	Evaluation of a small-scale waste heat recovery organic Rankine cycle. Applied Energy, 2017, 192, 146-158.	5.1	47
7	Influence of turbulence modelling on non-equilibrium condensing flows in nozzle and turbine cascade. International Journal of Heat and Mass Transfer, 2015, 88, 165-180.	2.5	46
8	A thermodynamic analysis of waste heat recovery from reciprocating engine power plants by means of Organic Rankine Cycles. Applied Thermal Engineering, 2014, 70, 33-41.	3.0	42
9	Siloxanes as Working Fluids for Mini-ORC Systems Based on High-Speed Turbogenerator Technology. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	0.5	32
10	Numerical Investigation of the Flow Behavior Inside a Supercritical CO2 Centrifugal Compressor. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	30
11	Experimental study of small scale and high expansion ratio ORC for recovering high temperature waste heat. Energy, 2020, 208, 118321.	4.5	28
12	Numerical analysis of working fluids for large scale centrifugal compressor driven cascade heat pumps upgrading waste heat. Applied Energy, 2020, 269, 115056.	5.1	24
13	Investigation of the Stage Performance and Flow Fields in a Centrifugal Compressor with a Vaneless Diffuser. International Journal of Rotating Machinery, 2014, 2014, 1-10.	0.8	21
14	Design and loss analysis of radial turbines for supercritical CO2 Brayton cycles. Energy, 2021, 230, 120878.	4.5	21
15	Centrifugal Compressor Design for Near-Critical Point Applications. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	20
16	Optimising the refrigeration cycle with a two-stage centrifugal compressor and a flash intercooler. International Journal of Refrigeration, 2009, 32, 1366-1375.	1.8	19
17	Influence of the Different Design Parameters to the Centrifugal Compressor Tip Clearance Loss. Journal of Turbomachinery, 2013, 135, .	0.9	19
18	Origin of droplet size underprediction in modeling of low pressure nucleating flows of steam. International Journal of Multiphase Flow, 2016, 86, 86-98.	1.6	17

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19	Predicting off-design range and performance of refrigeration cycle with two-stage centrifugal compressor and flash intercooler. International Journal of Refrigeration, 2010, 33, 1152-1160.	1.8	16
20	Effects of Real Gas Model Accuracy and Operating Conditions on Supercritical CO2 Compressor Performance and Flow Field. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	16
21	Effects of Different Blade Angle Distributions on Centrifugal Compressor Performance. International Journal of Rotating Machinery, 2009, 2009, 1-9.	0.8	14
22	Effect of vaneless diffuser width on the overall performance of a centrifugal compressor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 665-673.	0.8	14
23	Experimental study of centrifugal compressor vaneless diffuser width. Journal of Mechanical Science and Technology, 2013, 27, 1011-1020.	0.7	13
24	Design and verification of a hermetic high-speed turbogenerator concept for biomass and waste heat recovery applications. Energy Conversion and Management, 2020, 225, 113427.	4.4	13
25	Design and off-design performance of a supersonic axial flow turbine with different stator–rotor axial gaps. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 497-503.	0.8	11
26	Numerical Sensitivity Analysis for Supercritical CO 2 Radial Turbine Performance and Flow Field. Energy Procedia, 2017, 129, 1117-1124.	1.8	11
27	Effects of Real Gas Model Accuracy and Operating Conditions on Supercritical CO2 Compressor Performance and Flow Field. , 2017, , .		11
28	Numerical Investigation of the Flow Behavior Inside a Supercritical CO2 Centrifugal Compressor. , 2016, , .		10
29	Centrifugal compressor tip clearance and impeller flow. Journal of Mechanical Science and Technology, 2016, 30, 5029-5040.	0.7	10
30	Computational and experimental study of pinch on the performance of a vaneless diffuser in a centrifugal compressor. Journal of Thermal Science, 2006, 15, 306-313.	0.9	9
31	Design and testing of high temperature micro-ORC test stand using Siloxane as working fluid. Journal of Physics: Conference Series, 2017, 821, 012024.	0.3	9
32	Experimental study of centrifugal compressor tip clearance and vaneless diffuser flow fields. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2013, 227, 885-895.	0.8	8
33	Study of the Intelligent Control and Modes of the Arctic-Adopted Wind–Diesel Hybrid System. Energies, 2021, 14, 4188.	1.6	8
34	Numerical modelling of a supersonic axial turbine stator. Journal of Thermal Science, 2010, 19, 211-217.	0.9	7
35	Design and Flow Analysis of a Supersonic Small Scale ORC Turbine Stator With High Molecular Complexity Working Fluid. , 2014, , .		7
36	Effect of FreeStream Velocity Definition on Boundary Layer Thickness and Losses in Centrifugal Compressors. Journal of Turbomachinery, 2018, 140, .	0.9	7

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37	Unsteady pressure field in a vaneless diffuser of a centrifugal compressor: An experimental and computational analysis. Journal of Thermal Science, 2004, 13, 302-309.	0.9	6
38	Performance and flow fields of a supersonic axial turbine at off-design conditions. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2013, 227, 285-294.	0.8	6
39	Influence of the axial turbine design parameters on the stator–rotor axial clearance losses. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2014, 228, 482-490.	0.8	6
40	Comparison of Moment-Based Methods for Representing Droplet Size Distributions in Supersonic Nucleating Flows of Steam. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	5
41	Use of partially shrouded impeller in a small centrifugal compressor. Journal of Thermal Science, 2008, 17, 21-27.	0.9	4
42	Experimental Study of Pinch in Vaneless Diffuser of Centrifugal Compressor. , 2009, , .		4
43	Effect of high negative incidence on the performance of a centrifugal compressor stage with conventional vaned diffusers. Journal of Thermal Science, 2011, 20, 97-105.	0.9	4
44	Experimental Study of the Effect of the Tip Clearance to the Diffuser Flow Field and Stage Performance of a Centrifugal Compressor. , 2012, , .		4
45	The Effect of Turbulence and Real Gas Models on the Two Phase Spontaneously Condensing Flows in Nozzle. , 2013, , .		4
46	Non-equilibrium condensation of supercritical carbon dioxide in a converging-diverging nozzle. Journal of Physics: Conference Series, 2017, 821, 012025.	0.3	4
47	Centrifugal Compressor Design for Near-Critical Point Applications. , 2018, , .		4
48	CFD-DEM simulations of hydrodynamics of combined ion exchange-membrane filtration. Chemical Engineering Science, 2019, 208, 115151.	1.9	4
49	Numerical Investigation of Centrifugal Compressor Tip Clearance. , 2015, , .		3
50	Numerical Investigation of the Effect of Tip Clearance to the Performance of a Small Centrifugal Compressor. , 2006, , 411.		2
51	Effects of Impeller Tip Clearance on Centrifugal Compressor Efficiency. , 2007, , 1141.		2
52	Prototype Design of a Two-Stage High-Speed Motor Driven Air Compressor. , 2008, , .		2
53	Numerical Investigation of Turbulence Modelling on Condensing Steam Flows in Turbine Cascade. , 2014, , .		2
54	Importance of the vane exit Mach number on the axial clearance-related losses. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2016, 230, 175-183.	0.8	2

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55	Nonrealizability Problem With Quadrature Method of Moments in Wet-Steam Flows and Solution Techniques. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	2
56	Effect of Free-Stream Velocity Definition on Boundary Layer Thickness and Losses in Centrifugal Compressors. , 2017, , .		2
57	Analysis on gas dynamic effects and design of supersonic ORC stator nozzles for transcritical expansions. Energy Conversion and Management, 2021, 247, 114703.	4.4	2
58	The Time-Accurate Numerical Simulation of a Centrifugal Compressor. , 2002, , 579.		1
59	Experimental and Numerical Study of Real-Gas Flow in a Supersonic ORC Turbine Nozzle. , 2006, , 1527.		1
60	Radial Forces in a Centrifugal Compressor Equipped With Vaned Diffusers. , 2009, , .		1
61	Experimental Study of Vaned Diffusers in Centrifugal Compressor. , 2010, , .		1
62	Optimization of the mean radius flow path of a multi-stage steam turbine with evolution algorithms. Journal of Thermal Science, 2011, 20, 318-323.	0.9	1
63	MEASURED AND CALCULATED UNSTEADY PRESSURE FIELD IN A VANELESS DIFFUSER OF A CENTRIFUGAL COMPRESSOR. , 2006, , 493-503.		1
64	Influence of the Different Design Parameters to the Centrifugal Compressor Tip Clearance Loss. , 2011, , .		1
65	Design and Implementation of Problem-Based Learning in a Graduate Engineering Course. , 2011, , .		0
66	Design and Performance Measurements of a 6 kW High-Speed Micro Gas Turbine Prototype. , 2015, , .		0
67	Influence of Trailing Edge Geometry on the Condensing Steam Flow in Low-Pressure Steam Turbine. , 2015, , .		0
68	Non-Realizability Problem With Quadrature Method of Moments in Wet-Steam Flows and Solution Techniques. , 2016, , .		0
69	Influence of Turbulence Modelling to Condensing Steam Flow in the 3D Low-Pressure Steam Turbine Stage. , 2016, , .		0
70	Quantification of Stator Blade Shape Influence on Non-Equilibrium Condensation in Low-Pressure Steam Turbine. , 2017, , .		0
71	Non-realisability problem with the conventional method of moments in wet-steam flows. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2018, 232, 473-489.	0.8	0

72 Centrifugal Compressor Working Fluids for Refrigeration Cycle. , 2009, , .

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73	Blended Education in Turbomachinery and Fluid Dynamics. , 2009, , .		ο
74	EXPLICIT DARCY'S LAW BOUNDARY CONDITION WITH COMBINED CONTINUUM AND DISCRETE MODEL FOR PRESSURE DRIVEN MEMBRANE APPLICATIONS. , 2016, , .		0