

Teemu Turunen-Saaresti

List of Publications by Year in descending order

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74
papers

1,139
citations

471061

17
h-index

414034

32
g-index

75
all docs

75
docs citations

75
times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of the Intelligent Control and Modes of the Arctic-Adopted Wind-Diesel Hybrid System. Energies, 2021, 14, 4188.	1.6	8
2	Design and loss analysis of radial turbines for supercritical CO2 Brayton cycles. Energy, 2021, 230, 120878.	4.5	21
3	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
4	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
5	Experimental study of small scale and high expansion ratio ORC for recovering high temperature waste heat. Energy, 2020, 208, 118321.	4.5	28
6	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
7	Centrifugal Compressor Design for Near-Critical Point Applications. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	20
8	CFD-DEM simulations of hydrodynamics of combined ion exchange-membrane filtration. Chemical Engineering Science, 2019, 208, 115151.	1.9	4
9	Thermodynamic and turbomachinery design analysis of supercritical Brayton cycles for exhaust gas heat recovery. Energy, 2019, 167, 60-79.	4.5	58
10	Effect of FreeStream Velocity Definition on Boundary Layer Thickness and Losses in Centrifugal Compressors. Journal of Turbomachinery, 2018, 140, .	0.9	7
11	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
12	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
13	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
14	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
15	Centrifugal Compressor Design for Near-Critical Point Applications. , 2018, , .		4
16	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
17	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
18	Evaluation of a small-scale waste heat recovery organic Rankine cycle. Applied Energy, 2017, 192, 146-158.	5.1	47

#	ARTICLE	IF	CITATIONS
19	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
20	Non-equilibrium condensation of supercritical carbon dioxide in a converging-diverging nozzle. Journal of Physics: Conference Series, 2017, 821, 012025.	0.3	4
21	Numerical Sensitivity Analysis for Supercritical CO ₂ Radial Turbine Performance and Flow Field. Energy Procedia, 2017, 129, 1117-1124.	1.8	11
22	Effect of Free-Stream Velocity Definition on Boundary Layer Thickness and Losses in Centrifugal Compressors. , 2017, , .		2
23	Effects of Real Gas Model Accuracy and Operating Conditions on Supercritical CO ₂ Compressor Performance and Flow Field. , 2017, , .		11
24	Quantification of Stator Blade Shape Influence on Non-Equilibrium Condensation in Low-Pressure Steam Turbine. , 2017, , .		0
25	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
26	Non-Realizability Problem With Quadrature Method of Moments in Wet-Steam Flows and Solution Techniques. , 2016, , .		0
27	Numerical Investigation of the Flow Behavior Inside a Supercritical CO ₂ Centrifugal Compressor. , 2016, , .		10
28	Centrifugal compressor tip clearance and impeller flow. Journal of Mechanical Science and Technology, 2016, 30, 5029-5040.	0.7	10
29	Influence of Turbulence Modelling to Condensing Steam Flow in the 3D Low-Pressure Steam Turbine Stage. , 2016, , .		0
30	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
31	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
32	EXPLICIT DARCY'S LAW BOUNDARY CONDITION WITH COMBINED CONTINUUM AND DISCRETE MODEL FOR PRESSURE DRIVEN MEMBRANE APPLICATIONS. , 2016, , .		0
33	Numerical Investigation of Centrifugal Compressor Tip Clearance. , 2015, , .		3
34	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
35	Design and Performance Measurements of a 6 kW High-Speed Micro Gas Turbine Prototype. , 2015, , .		0
36	Influence of Trailing Edge Geometry on the Condensing Steam Flow in Low-Pressure Steam Turbine. , 2015, , .		0

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37	Influence of turbulence modelling on non-equilibrium condensing flows in nozzle and turbine cascade. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 165-180.	2.5	46
38	Numerical Investigation of Turbulence Modelling on Condensing Steam Flows in Turbine Cascade. , 2014, , .		2
39	Design and Flow Analysis of a Supersonic Small Scale ORC Turbine Stator With High Molecular Complexity Working Fluid. , 2014, , .		7
40	Investigation of the Stage Performance and Flow Fields in a Centrifugal Compressor with a Vaneless Diffuser. <i>International Journal of Rotating Machinery</i> , 2014, 2014, 1-10.	0.8	21
41	A thermodynamic analysis of waste heat recovery from reciprocating engine power plants by means of Organic Rankine Cycles. <i>Applied Thermal Engineering</i> , 2014, 70, 33-41.	3.0	42
42	Influence of the axial turbine design parameters on the statorâ€“rotor axial clearance losses. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2014, 228, 482-490.	0.8	6
43	Experimental study of centrifugal compressor vaneless diffuser width. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1011-1020.	0.7	13
44	Experimental study of centrifugal compressor tip clearance and vaneless diffuser flow fields. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2013, 227, 885-895.	0.8	8
45	The Effect of Turbulence and Real Gas Models on the Two Phase Spontaneously Condensing Flows in Nozzle. , 2013, , .		4
46	Siloxanes as Working Fluids for Mini-ORC Systems Based on High-Speed Turbogenerator Technology. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013, 135, .	0.5	32
47	Performance and flow fields of a supersonic axial turbine at off-design conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2013, 227, 285-294.	0.8	6
48	Influence of the Different Design Parameters to the Centrifugal Compressor Tip Clearance Loss. <i>Journal of Turbomachinery</i> , 2013, 135, .	0.9	19
49	Experimental Study of the Effect of the Tip Clearance to the Diffuser Flow Field and Stage Performance of a Centrifugal Compressor. , 2012, , .		4
50	Design and Implementation of Problem-Based Learning in a Graduate Engineering Course. , 2011, , .		0
51	Effect of high negative incidence on the performance of a centrifugal compressor stage with conventional vaned diffusers. <i>Journal of Thermal Science</i> , 2011, 20, 97-105.	0.9	4
52	Optimization of the mean radius flow path of a multi-stage steam turbine with evolution algorithms. <i>Journal of Thermal Science</i> , 2011, 20, 318-323.	0.9	1
53	Design and off-design performance of a supersonic axial flow turbine with different statorâ€“rotor axial gaps. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011, 225, 497-503.	0.8	11
54	Effect of vaneless diffuser width on the overall performance of a centrifugal compressor. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011, 225, 665-673.	0.8	14

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55	Influence of the Different Design Parameters to the Centrifugal Compressor Tip Clearance Loss. , 2011, , .		1
56	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
57	Numerical modelling of a supersonic axial turbine stator. Journal of Thermal Science, 2010, 19, 211-217.	0.9	7
58	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
59	Experimental Study of Vaned Diffusers in Centrifugal Compressor. , 2010, , .		1
60	Effects of Different Blade Angle Distributions on Centrifugal Compressor Performance. International Journal of Rotating Machinery, 2009, 2009, 1-9.	0.8	14
61	Experimental Study of Pinch in Vaneless Diffuser of Centrifugal Compressor. , 2009, , .		4
62	Radial Forces in a Centrifugal Compressor Equipped With Vaned Diffusers. , 2009, , .		1
63	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
64	Centrifugal Compressor Working Fluids for Refrigeration Cycle. , 2009, , .		0
65	Blended Education in Turbomachinery and Fluid Dynamics. , 2009, , .		0
66	Use of partially shrouded impeller in a small centrifugal compressor. Journal of Thermal Science, 2008, 17, 21-27.	0.9	4
67	Prototype Design of a Two-Stage High-Speed Motor Driven Air Compressor. , 2008, , .		2
68	Effects of Impeller Tip Clearance on Centrifugal Compressor Efficiency. , 2007, , 1141.		2
69	Numerical Investigation of the Effect of Tip Clearance to the Performance of a Small Centrifugal Compressor. , 2006, , 411.		2
70	Experimental and Numerical Study of Real-Gas Flow in a Supersonic ORC Turbine Nozzle. , 2006, , 1527.		1
71	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
72	MEASURED AND CALCULATED UNSTEADY PRESSURE FIELD IN A VANELESS DIFFUSER OF A CENTRIFUGAL COMPRESSOR. , 2006, , 493-503.		1

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73	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
74	The Time-Accurate Numerical Simulation of a Centrifugal Compressor. , 2002, , 579.		1