

Martin T White

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

613
citations

759190

12
h-index

677123

22
g-index

26
all docs

26
docs citations

26
times ranked

420
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of supercritical CO ₂ technologies and systems for power generation. <i>Applied Thermal Engineering</i> , 2021, 185, 116447.	6.0	206
2	Computer-aided working-fluid design, thermodynamic optimisation and thermoeconomic assessment of ORC systems for waste-heat recovery. <i>Energy</i> , 2018, 161, 1181-1198.	8.8	83
3	Industrial waste-heat recovery through integrated computer-aided working-fluid and ORC system optimisation using SAFT- Γ^3 Mie. <i>Energy Conversion and Management</i> , 2017, 150, 851-869.	9.2	76
4	A new method to identify the optimal temperature of latent-heat thermal-energy storage systems for power generation from waste heat. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119111.	4.8	25
5	Cycle and turbine optimisation for an ORC operating with two-phase expansion. <i>Applied Thermal Engineering</i> , 2021, 192, 116852.	6.0	22
6	A Generalised Assessment of Working Fluids and Radial Turbines for Non-Recuperated Subcritical Organic Rankine Cycles. <i>Energies</i> , 2018, 11, 800.	3.1	20
7	Experimental Investigation of the Operating Point of a 1-kW ORC System. <i>Energy Procedia</i> , 2017, 129, 875-882.	1.8	18
8	Improving the economy-of-scale of small organic rankine cycle systems through appropriate working fluid selection. <i>Applied Energy</i> , 2016, 183, 1227-1239.	10.1	16
9	Simultaneous Cycle Optimization and Fluid Selection for ORC Systems Accounting for the Effect of the Operating Conditions on Turbine Efficiency. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	16
10	The Application of Similitude Theory for the Performance Prediction of Radial Turbines Within Small-Scale Low-Temperature Organic Rankine Cycles. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	1.1	15
11	Mean-Line Design of a Supercritical CO ₂ Micro Axial Turbine. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5069.	2.5	15
12	Making the case for cascaded organic Rankine cycles for waste-heat recovery. <i>Energy</i> , 2020, 211, 118912.	8.8	14
13	Sensitivity of transcritical cycle and turbine design to dopant fraction in CO ₂ -based working fluids. <i>Applied Thermal Engineering</i> , 2021, 190, 116796.	6.0	14
14	Integrated computer-aided working-fluid design and thermoeconomic ORC system optimisation. <i>Energy Procedia</i> , 2017, 129, 152-159.	1.8	12
15	A comparison of axial turbine loss models for air, sCO ₂ and ORC turbines across a range of scales. <i>International Journal of Thermofluids</i> , 2022, 15, 100156.	7.8	12
16	Investigating the wet-to-dry expansion of organic fluids for power generation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 192, 122921.	4.8	11
17	System and component modelling and optimisation for an efficient 10â€%kWe low-temperature organic Rankine cycle utilising a radial inflow expander. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2015, 229, 795-809.	1.4	9
18	The One-Dimensional Meanline Design of Radial Turbines for Small Scale Low Temperature Organic Rankine Cycles. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
19	Supersonic flow of non-ideal fluids in nozzles: An application of similitude theory and lessons for ORC turbine design and flexible use considering system performance. Journal of Physics: Conference Series, 2017, 821, 012002.	0.4	7
20	Working-Fluid Replacement in Supersonic Organic Rankine Cycle Turbines. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	5
21	Rotor-Dynamics of Different Shaft Configurations for a 6 kW Micro Gas Turbine for Concentrated Solar Power. , 2016, , .		3
22	Design of a Closed-Loop Optical-Access Supersonic Test Facility for Organic Vapours. , 2018, , .		2
23	The impact of component performance on the overall cycle performance of small-scale low temperature organic Rankine cycles. IOP Conference Series: Materials Science and Engineering, 2015, 90, 012063.	0.6	1
24	Investigating the Effect of Changing the Working Fluid on the Three-Dimensional Flow Within Organic Rankine Cycle Turbines. , 2016, , .		1
25	Comparison between single and cascaded organic Rankine cycle systems accounting for the effects of expansion volume ratio on expander performance. IOP Conference Series: Materials Science and Engineering, 2019, 604, 012086.	0.6	1
26	Developments in Solar Powered Micro Gas Turbines and Waste Heat Recovery Organic Rankine Cycles. Lecture Notes in Networks and Systems, 2020, , 439-452.	0.7	1