Wen Su

List of Publications by Year
in descending order

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Version: 2024-02-01

41	827	430442	500791
papers	citations	18	28
		h-index	g-index

41	41	41	395
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Constructing a novel supercritical carbon dioxide power cycle with the capacity of process switching for the waste heat recovery. International Journal of Energy Research, 2022, 46, 5099-5118.	2.2	5
2	Potential Application of CO2-Based Mixtures in the Combined Power and Cooling System for the Waste Heat Recovery. Journal of Thermal Science and Engineering Applications, 2022, 14, .	0.8	3
3	An idea to efficiently recover the waste heat of Data Centers by constructing an integrated system with carbon dioxide heat pump, mechanical subcooling cycle and lithium bromide-water absorption refrigeration cycle. Energy Conversion and Management, 2022, 256, 115398.	4.4	24
4	Combining cubic equations with group contribution methods to predict cycle performances and design working fluids for four different organic Rankine cycles. Energy Conversion and Management: X, 2022, 15, 100245.	0.9	0
5	Recent trends of supercritical CO2 Brayton cycle: Bibliometric analysis and research review. Nuclear Engineering and Technology, 2021, 53, 699-714.	1.1	76
6	Development of a novel dual heated cascade supercritical carbon dioxide cycle and performance comparison with existing two configurations for waste heat recovery. International Journal of Energy Research, 2021, 45, 15389-15408.	2.2	7
7	Machine learning prediction of ORC performance based on properties of working fluid. Applied Thermal Engineering, 2021, 195, 117184.	3.0	26
8	Performance Comparison of Advanced Transcritical Power Cycles with High-Temperature Working Fluids for the Engine Waste Heat Recovery. Energies, 2021, 14, 5886.	1.6	8
9	Performances of Transcritical Power Cycles with CO2-Based Mixtures for the Waste Heat Recovery of ICE. Entropy, 2021, 23, 1551.	1.1	11
10	Vaporâ€“Liquid Equilibrium Prediction of Refrigerant Mixtures with Pengâ€“Robinson Equation of State and Binary Interaction Parameters Calculated Through Group Contribution Model. International Journal of Thermophysics, 2020, 41, 1.	1.0	7
11	Vaporâ€“liquid separation of mixtures R134a/R600a at horizontal branch T-junctions. International Journal of Refrigeration, 2020, 114, 71-78.	1.8	3
12	State-of-art of impacting T-junction : Phase separation, constituent separation and applications. International Journal of Heat and Mass Transfer, 2020, 148, 119067.	2.5	17
13	Thermodynamic analysis on the combination of supercritical carbon dioxide power cycle and transcritical carbon dioxide refrigeration cycle for the waste heat recovery of shipboard. Energy Conversion and Management, 2020, 221, 113214.	4.4	56
14	Thermodynamic analysis and parametric optimization of a novel Sâ€“CO2 power cycle for the waste heat recovery of internal combustion engines. Energy, 2020, 209, 118484.	4.5	53
15	How to evaluate the performance of sub-critical Organic Rankine Cycle from key properties of working fluids by group contribution methods?. Energy Conversion and Management, 2020, 221, 113204.	4.4	23
16	New Knowledge on the Performance of Supercritical Brayton Cycle with CO2-Based Mixtures. Energies, 2020, 13, 1741.	1.6	19
17	Experimental investigation on phase separation comparison between single and double T-junctions. Experimental Thermal and Fluid Science, 2020, 118, 110171.	1.5	6
18	State-of-art of branching T-junction: Experiments, modeling, developing prospects and applications. Experimental Thermal and Fluid Science, 2019, 109, 109895.	1.5	26

#	Article	IF	Citations
19	Performance Analysis on a Power and Ejector-Refrigeration System and the Involved Ejector. Frontiers in Energy Research, 2019, 7, .	1.2	3
20	A new energy analysis model of seawater desalination based on thermodynamics. Energy Procedia, 2019, 158, 5472-5478.	1.8	6
21	A Numerical Study on Heat Transfer of R410A during Flow Boiling. Energy Procedia, 2019, 158, 5414-5420.	1.8	5
22	Improved correlations for working fluid properties prediction and their application in performance evaluation of sub-critical Organic Rankine Cycle. Energy, 2019, 174, 122-137.	4.5	25
23	Error analysis of ORC performance calculation based on the Helmholtz equation with different binary interaction parameters of mixture. Energy, 2019, 166, 414-425.	4.5	6
24	Experimental study on phase separation of refrigerant at horizontal T-junction. International Journal of Multiphase Flow, 2018, 105, 217-233.	1.6	23
25	How to approach Carnot cycle via zeotropic working fluid: Research methodology and case study. Energy, 2018, 144, 576-586.	4.5	49
26	Thermodynamic performance comparison of Organic Rankine Cycle between zeotropic mixtures and pure fluids under open heat source. Energy Conversion and Management, 2018, 165, 720-737.	4.4	48
27	A limiting efficiency of subcritical Organic Rankine cycle under the constraint of working fluids. Energy, 2018, 143, 458-466.	4.5	26
28	Methodology for determining the design radiation for a PTC heating system based on non-guaranteed days. Solar Energy, 2018, 174, 97-107.	2.9	4
29	A review of molecular simulation applied in vapor-liquid equilibria (VLE) estimation of thermodynamic cycles. Journal of Molecular Liquids, 2018, 264, 652-674.	2.3	17
30	How to quantitatively describe the role of the pure working fluids in subcritical organic Rankine cycle: A limitation on efficiency. Energy Conversion and Management, 2018, 172, 316-327.	4.4	24
31	Experimental study on the constituent separation performance of binary zeotropic mixtures in horizontal branch T-junctions. International Journal of Heat and Mass Transfer, 2018, 127, 76-87.	2.5	15
32	The performance of thermodynamic cycles based on the properties of working fluids. Chinese Science Bulletin, 2018, 63, 232-243.	0.4	0
33	Group contribution methods in thermodynamic cycles: Physical properties estimation of pure working fluids. Renewable and Sustainable Energy Reviews, 2017, 79, 984-1001.	8.2	31
34	New knowledge on the temperature-entropy saturation boundary slope of working fluids. Energy, 2017, 119, 211-217.	4.5	12
35	Simultaneous working fluids design and cycle optimization for Organic Rankine cycle using group contribution model. Applied Energy, 2017, 202, 618-627.	5.1	54
36	How to predict the vapor slope of temperature-entropy saturation boundary of working fluids from molecular groups?. Energy, 2017, 135, 14-22.	4.5	9

#	Article	IF	Citations
37	Recent advances in modeling the vapor-liquid equilibrium of mixed working fluids. Fluid Phase Equilibria, 2017, 432, 28-44.	1.4	17
38	Developing a performance evaluation model of Organic Rankine Cycle for working fluids based on the group contribution method. Energy Conversion and Management, 2017, 132, 307-315.	4.4	41
39	EXPERIMENTAL STUDY ON TWO-PHASE SEPARATION IN A T-JUNCTION. , 2017, , .		0
40	EXPERIMENTAL STUDY ON PUMP APPLIED IN ORGANIC RANKINE CYCLE SYSTEM. , 2017, , .		0
41	A neural network for predicting normal boiling point of pure refrigerants using molecular groups and a topological index. International Journal of Refrigeration, 2016, 63, 63-71.	1.8	42