

Wen Su

List of Publications by Year in descending order

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41
papers

827
citations

430874

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501196

28
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41
all docs

41
docs citations

41
times ranked

395
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. <i>International Journal of Energy Research</i> , 2022, 46, 5099-5118.	4.5	5
2	Potential Application of CO ₂ -Based Mixtures in the Combined Power and Cooling System for the Waste Heat Recovery. <i>Journal of Thermal Science and Engineering Applications</i> , 2022, 14, .	1.5	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. <i>Energy Conversion and Management</i> , 2022, 256, 115398.	9.2	24
4	Combining cubic equations with group contribution methods to predict cycle performances and design working fluids for four different organic Rankine cycles. <i>Energy Conversion and Management: X</i> , 2022, 15, 100245.	1.6	0
5	Recent trends of supercritical CO ₂ Brayton cycle: Bibliometric analysis and research review. <i>Nuclear Engineering and Technology</i> , 2021, 53, 699-714.	2.3	76
6	Development of a novel dual heated cascade supercritical carbon dioxide cycle and performance comparison with existing two configurations for waste heat recovery. <i>International Journal of Energy Research</i> , 2021, 45, 15389-15408.	4.5	7
7	Machine learning prediction of ORC performance based on properties of working fluid. <i>Applied Thermal Engineering</i> , 2021, 195, 117184.	6.0	26
8	Performance Comparison of Advanced Transcritical Power Cycles with High-Temperature Working Fluids for the Engine Waste Heat Recovery. <i>Energies</i> , 2021, 14, 5886.	3.1	8
9	Performances of Transcritical Power Cycles with CO ₂ -Based Mixtures for the Waste Heat Recovery of ICE. <i>Entropy</i> , 2021, 23, 1551.	2.2	11
10	Vapor-Liquid Equilibrium Prediction of Refrigerant Mixtures with Peng-Robinson Equation of State and Binary Interaction Parameters Calculated Through Group Contribution Model. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	2.1	7
11	Vapor-liquid separation of mixtures R134a/R600a at horizontal branch T-junctions. <i>International Journal of Refrigeration</i> , 2020, 114, 71-78.	3.4	3
12	State-of-art of impacting T-junction : Phase separation, constituent separation and applications. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119067.	4.8	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. <i>Energy Conversion and Management</i> , 2020, 221, 113214.	9.2	56
14	Thermodynamic analysis and parametric optimization of a novel CO ₂ power cycle for the waste heat recovery of internal combustion engines. <i>Energy</i> , 2020, 209, 118484.	8.8	53
15	How to evaluate the performance of sub-critical Organic Rankine Cycle from key properties of working fluids by group contribution methods?. <i>Energy Conversion and Management</i> , 2020, 221, 113204.	9.2	23
16	New Knowledge on the Performance of Supercritical Brayton Cycle with CO ₂ -Based Mixtures. <i>Energies</i> , 2020, 13, 1741.	3.1	19
17	Experimental investigation on phase separation comparison between single and double T-junctions. <i>Experimental Thermal and Fluid Science</i> , 2020, 118, 110171.	2.7	6
18	State-of-art of branching T-junction: Experiments, modeling, developing prospects and applications. <i>Experimental Thermal and Fluid Science</i> , 2019, 109, 109895.	2.7	26

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19	Performance Analysis on a Power and Ejector-Refrigeration System and the Involved Ejector. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	3
20	A new energy analysis model of seawater desalination based on thermodynamics. <i>Energy Procedia</i> , 2019, 158, 5472-5478.	1.8	6
21	A Numerical Study on Heat Transfer of R410A during Flow Boiling. <i>Energy Procedia</i> , 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. <i>Energy</i> , 2019, 174, 122-137.	8.8	25
23	Error analysis of ORC performance calculation based on the Helmholtz equation with different binary interaction parameters of mixture. <i>Energy</i> , 2019, 166, 414-425.	8.8	6
24	Experimental study on phase separation of refrigerant at horizontal T-junction. <i>International Journal of Multiphase Flow</i> , 2018, 105, 217-233.	3.4	23
25	How to approach Carnot cycle via zeotropic working fluid: Research methodology and case study. <i>Energy</i> , 2018, 144, 576-586.	8.8	49
26	Thermodynamic performance comparison of Organic Rankine Cycle between zeotropic mixtures and pure fluids under open heat source. <i>Energy Conversion and Management</i> , 2018, 165, 720-737.	9.2	48
27	A limiting efficiency of subcritical Organic Rankine cycle under the constraint of working fluids. <i>Energy</i> , 2018, 143, 458-466.	8.8	26
28	Methodology for determining the design radiation for a PTC heating system based on non-guaranteed days. <i>Solar Energy</i> , 2018, 174, 97-107.	6.1	4
29	A review of molecular simulation applied in vapor-liquid equilibria (VLE) estimation of thermodynamic cycles. <i>Journal of Molecular Liquids</i> , 2018, 264, 652-674.	4.9	17
30	How to quantitatively describe the role of the pure working fluids in subcritical organic Rankine cycle: A limitation on efficiency. <i>Energy Conversion and Management</i> , 2018, 172, 316-327.	9.2	24
31	Experimental study on the constituent separation performance of binary zeotropic mixtures in horizontal branch T-junctions. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 76-87.	4.8	15
32	The performance of thermodynamic cycles based on the properties of working fluids. <i>Chinese Science Bulletin</i> , 2018, 63, 232-243.	0.7	0
33	Group contribution methods in thermodynamic cycles: Physical properties estimation of pure working fluids. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 984-1001.	16.4	31
34	New knowledge on the temperature-entropy saturation boundary slope of working fluids. <i>Energy</i> , 2017, 119, 211-217.	8.8	12
35	Simultaneous working fluids design and cycle optimization for Organic Rankine cycle using group contribution model. <i>Applied Energy</i> , 2017, 202, 618-627.	10.1	54
36	How to predict the vapor slope of temperature-entropy saturation boundary of working fluids from molecular groups?. <i>Energy</i> , 2017, 135, 14-22.	8.8	9

#	ARTICLE	IF	CITATIONS
37	Recent advances in modeling the vapor-liquid equilibrium of mixed working fluids. Fluid Phase Equilibria, 2017, 432, 28-44.	2.5	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.	9.2	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.	3.4	42