

Li Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2850167/publications.pdf>

Version: 2024-02-01

89
papers

2,834
citations

159585

30
h-index

206112

48
g-index

91
all docs

91
docs citations

91
times ranked

2343
citing authors

#	ARTICLE	IF	CITATIONS
1	A parametric study of CO ₂ /N ₂ gas separation membrane processes for post-combustion capture. <i>Journal of Membrane Science</i> , 2008, 325, 284-294.	8.2	197
2	A critical review of the models used to estimate solar radiation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 314-329.	16.4	192
3	Multi-stage gas separation membrane processes used in post-combustion capture: Energetic and economic analyses. <i>Journal of Membrane Science</i> , 2010, 359, 160-172.	8.2	165
4	Full three-dimensional tomography: a comparison between the scattering-integral and adjoint-wavefield methods. <i>Geophysical Journal International</i> , 2007, 170, 175-181.	2.4	126
5	A parametric study of the impact of membrane materials and process operating conditions on carbon capture from humidified flue gas. <i>Journal of Membrane Science</i> , 2013, 431, 139-155.	8.2	86
6	Analysis of a novel combined power and ejector-refrigeration cycle. <i>Energy Conversion and Management</i> , 2016, 108, 266-274.	9.2	79
7	Solar driven ORC-based CCHP: Comparative performance analysis between sequential and parallel system configurations. <i>Applied Thermal Engineering</i> , 2018, 131, 696-706.	6.0	59
8	Theoretical analysis of a combined power and ejector refrigeration cycle using zeotropic mixture. <i>Applied Energy</i> , 2015, 160, 912-919.	10.1	57
9	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
10	Concepts and investment cost analyses of multi-stage membrane systems used in post-combustion processes. <i>Energy Procedia</i> , 2009, 1, 269-278.	1.8	50
11	How to approach Carnot cycle via zeotropic working fluid: Research methodology and case study. <i>Energy</i> , 2018, 144, 576-586.	8.8	49
12	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
13	Application of machine learning into organic Rankine cycle for prediction and optimization of thermal and exergy efficiency. <i>Energy Conversion and Management</i> , 2020, 210, 112700.	9.2	47
14	Analysis of a solar Rankine cycle powered refrigerator with zeotropic mixtures. <i>Solar Energy</i> , 2018, 162, 57-66.	6.1	45
15	Phase diagrams of CO ₂ and CO ₂ +N ₂ gas mixtures and their application in compression processes. <i>Energy Procedia</i> , 2011, 4, 3778-3785.	1.8	44
16	Magma Chamber and Crustal Channel Flow Structures in the Tengchong Volcano Area From 3â€š MT Inversion at the Intracontinental Block Boundary Southeast of the Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 11,112.	3.4	43
17	A neural network for predicting normal boiling point of pure refrigerants using molecular groups and a topological index. <i>International Journal of Refrigeration</i> , 2016, 63, 63-71.	3.4	42
18	Developing a performance evaluation model of Organic Rankine Cycle for working fluids based on the group contribution method. <i>Energy Conversion and Management</i> , 2017, 132, 307-315.	9.2	41

#	ARTICLE	IF	CITATIONS
19	Towards novel low temperature thermodynamic cycle: A critical review originated from organic Rankine cycle. <i>Applied Energy</i> , 2020, 270, 115186.	10.1	40
20	Rayleigh-wave dispersion reveals crust-mantle decoupling beneath eastern Tibet. <i>Scientific Reports</i> , 2015, 5, 16644.	3.3	39
21	Performance evaluation on solar box cooker with reflector tracking at optimal angle under Bahir Dar climate. <i>Solar Energy</i> , 2019, 180, 664-677.	6.1	39
22	Dynamic performance investigation of organic Rankine cycle driven by solar energy under cloudy condition. <i>Energy</i> , 2018, 147, 122-141.	8.8	38
23	How interlayer twist angles affect in-plane and cross-plane thermal conduction of multilayer graphene: A non-equilibrium molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 161-173.	4.8	38
24	Performance analysis of the ejector-expansion refrigeration cycle using zeotropic mixtures. <i>International Journal of Refrigeration</i> , 2015, 57, 197-207.	3.4	36
25	Rupture process of the 2021 M7.4 Maduo earthquake and implication for deformation mode of the Songpan-Ganzi terrane in Tibetan Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	36
26	Novel experimental research on the compression process in organic Rankine cycle (ORC). <i>Energy Conversion and Management</i> , 2017, 137, 1-11.	9.2	35
27	De-noising of transient electromagnetic data based on the long short-term memory-autoencoder. <i>Geophysical Journal International</i> , 2020, 224, 669-681.	2.4	35
28	Investigating the influence of sweep gas on CO ₂ /N ₂ membranes for post-combustion capture. <i>International Journal of Greenhouse Gas Control</i> , 2013, 13, 180-190.	4.6	34
29	Effect of Nanobubble Evolution on Hydrate Process: A Review. <i>Journal of Thermal Science</i> , 2019, 28, 948-961.	1.9	34
30	An Earthquake Detection and Location Architecture for Continuous Seismograms: Phase Picking, Association, Location, and Matched Filter (PALM). <i>Seismological Research Letters</i> , 2022, 93, 413-425.	1.9	34
31	Dynamic performance investigation for two types of ORC system driven by waste heat of automotive internal combustion engine. <i>Energy</i> , 2019, 169, 958-971.	8.8	33
32	Experimental study on two-phase separation performance of impacting T-junction. <i>International Journal of Multiphase Flow</i> , 2016, 83, 172-182.	3.4	31
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	Investigation of a Hybrid System for Post-Combustion Capture. <i>Energy Procedia</i> , 2014, 63, 1756-1772.	1.8	30
35	How gas separation membrane competes with chemical absorption in postcombustion capture. <i>Energy Procedia</i> , 2011, 4, 629-636.	1.8	29
36	Molecular dynamics study on transport properties of supercritical working fluids: Literature review and case study. <i>Applied Energy</i> , 2019, 250, 63-80.	10.1	29

#	ARTICLE	IF	CITATIONS
37	Experimental study on thermal performance of U-type evacuated glass tubular solar collector with low inlet temperature. <i>Solar Energy</i> , 2017, 150, 192-201.	6.1	28
38	Experimental research on the influence of system parameters on the composition shift for zeotropic mixture (isobutane/pentane) in a system occurring phase change. <i>Energy Conversion and Management</i> , 2016, 113, 1-15.	9.2	27
39	A limiting efficiency of subcritical Organic Rankine cycle under the constraint of working fluids. <i>Energy</i> , 2018, 143, 458-466.	8.8	26
40	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
41	Investigating the influence of the pressure distribution in a membrane module on the cascaded membrane system for post-combustion capture. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 194-204.	4.6	25
42	Dynamic test and verification of model-guided ORC system. <i>Energy Conversion and Management</i> , 2019, 186, 349-367.	9.2	25
43	Trends in patents for solar thermal utilization in China. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 852-862.	16.4	24
44	A literature research on feasible application of mixed working fluid in flexible distributed energy system. <i>Energy</i> , 2017, 137, 377-390.	8.8	24
45	Simulation of two-phase refrigerant separation in horizontal T-junction. <i>Applied Thermal Engineering</i> , 2018, 134, 333-340.	6.0	24
46	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
47	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
48	Experimental study on flow boiling characteristics of R-245fa in circular tube under non-uniform heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118570.	4.8	23
49	The feasibility of using vapor expander to recover the expansion work in two-stage heat pumps with a large temperature lift. <i>International Journal of Refrigeration</i> , 2015, 56, 15-27.	3.4	22
50	Performance analysis on novel thermodynamic cycle under the guidance of 3D construction method. <i>Applied Energy</i> , 2019, 250, 478-492.	10.1	22
51	A graphic analysis method of electrochemical systems for low-grade heat harvesting from a perspective of thermodynamic cycles. <i>Energy</i> , 2020, 191, 116547.	8.8	22
52	Experimental study on the distribution of constituents of binary zeotropic mixtures in vertical impacting T-junction. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 242-252.	4.8	21
53	Convolutional neural network inversion of airborne transient electromagnetic data. <i>Geophysical Prospecting</i> , 2021, 69, 1761-1772.	1.9	21
54	Focal mechanisms of the Lushan earthquake sequence and spatial variation of the stress field. <i>Science China Earth Sciences</i> , 2015, 58, 1148-1158.	5.2	20

#	ARTICLE	IF	CITATIONS
55	Bifurcated Crustal Channel Flow and Seismogenic Structures of Intraplate Earthquakes in Western Yunnan, China as Revealed by Three-Dimensional Magnetotelluric Imaging. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018991.	3.4	20
56	Intelligent collaborative attainment of structure configuration and fluid selection for the Organic Rankine cycle. <i>Applied Energy</i> , 2020, 264, 114743.	10.1	19
57	Optimization and multi-time scale modeling of pilot solar driven polygeneration system based on organic Rankine cycle. <i>Applied Energy</i> , 2018, 222, 396-409.	10.1	18
58	Recent advances in modeling the vapor-liquid equilibrium of mixed working fluids. <i>Fluid Phase Equilibria</i> , 2017, 432, 28-44.	2.5	17
59	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
60	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
61	Synthetic seismograms by normal-mode summation: a new derivation and numerical examples. <i>Geophysical Journal International</i> , 2010, 183, 1613-1632.	2.4	16
62	Comparative Investigation of Polymer Membranes for Post-combustion Capture. <i>Energy Procedia</i> , 2013, 37, 1125-1134.	1.8	16
63	Experimental research on liquid-vapor two-phase flow separation of zeotropic mixtures at an impacting T-junction. <i>Experimental Thermal and Fluid Science</i> , 2017, 89, 140-152.	2.7	16
64	Anisotropic Rayleigh-wave phase velocities beneath northern Vietnam. <i>Earth, Planets and Space</i> , 2015, 67, 28.	2.5	15
65	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
66	Identification of key affecting parameters of zeotropic working fluid on subcritical organic Rankine cycle according limiting thermodynamic cycle. <i>Energy Conversion and Management</i> , 2019, 197, 111884.	9.2	15
67	The 2018 Mw6.4 Hualien earthquake: Dynamic slip partitioning reveals the spatial transition from mountain building to subduction. <i>Earth and Planetary Science Letters</i> , 2019, 524, 115729.	4.4	14
68	New knowledge on the temperature-entropy saturation boundary slope of working fluids. <i>Energy</i> , 2017, 119, 211-217.	8.8	12
69	Analysis of pressure drop in T-junction and its effect on thermodynamic cycle efficiency. <i>Applied Energy</i> , 2018, 231, 468-480.	10.1	12
70	Understanding transport and separation of organic mixed working fluids in T-junction from multi-scale insights: Literature review and case study. <i>International Journal of Heat and Mass Transfer</i> , 2020, 154, 119702.	4.8	12
71	Instantaneous Inversion of Airborne Electromagnetic Data Based on Deep Learning. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	12
72	Spatial and temporal variations of stress field in the Longmenshan Fault Zone after the 2008 Wenchuan, China earthquake. <i>Tectonophysics</i> , 2019, 767, 228172.	2.2	11

#	ARTICLE	IF	CITATIONS
73	The 2020 Mw6.0 Jiashi Earthquake: Coinvolvement of Thin-Skinned Thrusting and Basement Shortening in Shaping the Keping-Tage Fold-and-Thrust Belt in Southwestern Tian Shan. <i>Seismological Research Letters</i> , 2022, 93, 680-692.	1.9	10
74	2D numerical study on flow boiling of zeotropic mixture isobutane/pentane in internal countercurrent flow system. <i>Applied Thermal Engineering</i> , 2017, 114, 1247-1255.	6.0	9
75	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
76	Numerical simulation on constituents separation of R134a/R600a in a horizontal T-junction. <i>International Journal of Refrigeration</i> , 2020, 115, 148-157.	3.4	9
77	Separation of binary organic mixture in T-shaped carbon nanotube separator: Insights from molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2020, 312, 113371.	4.9	7
78	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
79	Ledinegg instability analysis on direct vapor generation inside solar collectors. <i>Solar Energy</i> , 2020, 196, 530-539.	6.1	5
80	Dynamic Time Warping as an Alternative to Windowed Cross Correlation in Seismological Applications. <i>Seismological Research Letters</i> , 2022, 93, 1909-1921.	1.9	5
81	GlitchNet: A Glitch Detection and Removal System for SEIS Records Based on Deep Learning. <i>Seismological Research Letters</i> , 2022, 93, 2804-2817.	1.9	5
82	Analysis of a coal fired combined cycle with carried-heat gasification. <i>Journal of Thermal Science</i> , 1994, 3, 217-224.	1.9	4
83	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
84	<i>P</i> -Wave Velocity Structure of the Lower Crust and Uppermost Mantle beneath the Sichuan-Yunnan (China) Region. <i>Seismological Research Letters</i> , 2022, 93, 2161-2175.	1.9	4
85	Molecular dynamic study on crossover of equilibrium time of conduction for silicon/silicon and silicon/silicon carbide pairs on nanoscale. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 85-95.	5.6	3
86	Lg-Q model for Sichuan and Yunnan region. <i>Earth and Planetary Physics</i> , 2019, 3, 1-11.	1.1	3
87	Removing Galvanic Distortion in 3D Magnetotelluric Data Based on Constrained Inversion. <i>Pure and Applied Geophysics</i> , 2021, 178, 2149-2169.	1.9	2
88	Automatic measurement and quality control of S3KS-SKKS differential traveltimes and the influence of mantle heterogeneity. <i>Geophysical Journal International</i> , 2022, 229, 1448-1461.	2.4	2
89	Uniformly asymptotic eigensolutions of the Earth's toroidal modes. <i>Geophysical Journal International</i> , 2021, 228, 250-258.	2.4	1