List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6584359/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Experimental data and Cubic-Equation-Of-State calculations of CO2/R-161 Vapor-Liquid equilibrium. Journal of Chemical Thermodynamics, 2022, 165, 106635.	2.0	4
2	Predicting thermal expansion pressure buildup in a deepwater oil well with an annulus partially filled with nitrogen. Journal of Petroleum Science and Engineering, 2022, 208, 109275.	4.2	12
3	A lumped-element magnetic refrigerator model. Applied Thermal Engineering, 2022, 204, 117918.	6.0	11
4	Influence of Heat Exchanger Design on the Thermal Performance of a Domestic Wine Cooler Driven by a Magnetic Refrigeration System. Anais Da Academia Brasileira De Ciencias, 2022, 94, e20200563.	0.8	7
5	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e805" altimg="si94.svg"> <mml:msub><mml:mrow /&gt;<mml:mrow><mml:mi>y</mml:mi></mml:mrow></mml:mrow </mml:msub> granules and their performance in epoxy-bonded active magnetic regenerators. Applied Thermal Engineering, 2021, 183.	6.0	31
6	116185. A magnetic wine cooler prototype. International Journal of Refrigeration, 2021, 122, 110-121.	3.4	25
7	A comparison of parallel and colliding jet arrays in a compact vapour compression heat sink for electronics cooling. Applied Thermal Engineering, 2021, 195, 117217.	6.0	9
8	An internally consistent procedure to characterize single carbon number fractions for phase equilibrium of petroleum mixtures: Application to Brazilian pre-salt reservoir fluids. Journal of Petroleum Science and Engineering, 2021, , 109723.	4.2	1
9	Analysis and optimization of air coolers using multiple-stage thermoelectric modules arranged in counter-current flow. International Journal of Refrigeration, 2020, 110, 19-27.	3.4	14
10	Design trade-offs for an active magnetic regenerator device. Applied Thermal Engineering, 2020, 165, 114467.	6.0	22
11	Numerical investigation of refrigerant outgassing in the screw pump of a hermetic reciprocating compressor oil supply system. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2020, , 095440892095260.	2.5	3
12	Overview on Magnetic Refrigeration. , 2020, , .		1
13	Performance Assessment and Layer Fraction Optimization of Gd–Y Multilayer Regenerators for Near Room-Temperature Magnetic Cooling. International Journal of Air-Conditioning and Refrigeration, 2020, 28, 2050027.	0.7	4
14	Quantifying interfacial parameters of upward and downward annular flow condensation from high-speed visualization. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	2
15	Numerical analysis of the influence of magnetic field waveforms on the performance of active magnetic regenerators. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	6
16	Phase equilibrium and liquid viscosity data for R-290/POE ISO 22 mixtures between 283 and 353ÂK. International Journal of Refrigeration, 2020, 114, 79-87.	3.4	10
17	Dielectric Constant of Mixtures of Carbon Dioxide and n-Dodecane Between 283 K and 343 K. International Journal of Thermophysics, 2020, 41, 1.	2.1	5
18	Addendum to "Dielectric Constant of Mixtures of Carbon dioxide and n-Dodecane Between 283ÂK and 343ÂK, Int. J. Thermophysics 41, 26, 2020†Complementary Results for Mixtures of Carbon dioxide and Squalane Between 283ÂK and 343ÂK. International Journal of Thermophysics. 2020. 41. 1.	2.1	1

#	Article	IF	CITATIONS
19	Time scaling of frost accretion and the square-root-of-time rule. International Communications in Heat and Mass Transfer, 2019, 108, 104281.	5.6	7
20	Phase Equilibrium and Liquid Viscosity of CO <sub>2</sub> + <i>n</i> -Dodecane Mixtures between 283 and 353 K. Journal of Chemical & Engineering Data, 2019, 64, 3375-3384.	1.9	15
21	Use of peripheral fins for R-290 charge reduction in split-type residential air-conditioners. International Journal of Refrigeration, 2019, 106, 1-6.	3.4	7
22	Numerical analysis of R-290/POE ISO 22 condensers based on the second law and SEER rating. International Journal of Refrigeration, 2018, 88, 441-450.	3.4	3
23	Influence of inlet flow maldistribution and carryover losses on the performance of thermal regenerators. Applied Thermal Engineering, 2018, 133, 472-482.	6.0	23
24	Experimental investigation of different fluid flow profiles in a rotary multi-bed active magnetic regenerator device. International Journal of Refrigeration, 2018, 91, 46-54.	3.4	36
25	Intermittent flow initiation in a horizontal tube: quantitative visualization and CFD analysis. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	9
26	A compact refrigeration system based on multijet sprays for electronics thermal management. Experimental Thermal and Fluid Science, 2018, 97, 180-191.	2.7	12
27	Thermal performance of peripheral-finned tube evaporators under frosting. International Journal of Heat and Mass Transfer, 2018, 116, 194-207.	4.8	8
28	Influence of the flow rate waveform and mass imbalance on the performance of active magnetic regenerators. Part II: Numerical simulation. International Journal of Refrigeration, 2018, 93, 159-168.	3.4	20
29	Influence of the flow rate waveform and mass imbalance on the performance of active magnetic regenerators. Part I: Experimental analysis. International Journal of Refrigeration, 2018, 93, 236-248.	3.4	26
30	Effect of jet length and ambient temperature on the performance of a two-phase jet impingement heat sink refrigeration system. International Journal of Refrigeration, 2017, 75, 331-342.	3.4	9
31	Thermal-hydraulic behavior and influence of carryover losses in oscillating-flow regenerators. International Journal of Thermal Sciences, 2017, 113, 89-99.	4.9	16
32	Modeling transient churn-annular flows in a long vertical tube. International Journal of Multiphase Flow, 2017, 89, 399-412.	3.4	18
33	Performance Assessment of Single and Multiple Jet Impingement Configurations in a Refrigeration-Based Compact Heat Sink for Electronics Cooling. Journal of Electronic Packaging, Transactions of the ASME, 2017, 139, .	1.8	10
34	Performance assessment of different porous matrix geometries for active magnetic regenerators. Applied Energy, 2017, 187, 847-861.	10.1	71
35	Fabrication and thermal analysis of epoxy resin-carbon fiber fabric composite plate-coil heat exchangers. Applied Thermal Engineering, 2017, 127, 1451-1460.	6.0	11
36	Analytical solution of concentric two-pole Halbach cylinders as a preliminary design tool for magnetic refrigeration systems. Journal of Magnetism and Magnetic Materials, 2017, 444, 87-97.	2.3	14

#	Article	IF	CITATIONS
37	A Numerical Study on the Thermal Behavior of Wellbores. SPE Production and Operations, 2017, 32, 564-574.	0.6	12
38	Novel two-phase jet impingement heat sink for active cooling of electronic devices. Applied Thermal Engineering, 2017, 112, 952-964.	6.0	24
39	Entropy Generation Minimization Analysis of Active Magnetic Regenerators. Anais Da Academia Brasileira De Ciencias, 2017, 89, 717-743.	0.8	7
40	Using electrovalves as a flow distribution system for an active magnetic regenerator. , 2017, , .		2
41	Magnetic heat pumps: An overview of design principles and challenges. Science and Technology for the Built Environment, 2016, 22, 507-519.	1.7	54
42	Onset of flow reversal in upflow condensation in an inclinable tube. Experimental Thermal and Fluid Science, 2016, 77, 55-70.	2.7	13
43	Thermal–hydraulic evaluation of oscillating-flow regenerators using water: Experimental analysis of packed beds of spheres. International Journal of Heat and Mass Transfer, 2016, 99, 918-930.	4.8	24
44	Development of a novel rotary magnetic refrigerator. International Journal of Refrigeration, 2016, 68, 187-197.	3.4	75
45	Performance evaluation of an active magnetic regenerator for cooling applications – part II: Mathematical modeling and thermal losses. International Journal of Refrigeration, 2016, 72, 206-217.	3.4	48
46	Analysis of a variable speed air conditioner considering the R-290/POE ISO 22 mixture effect. Applied Thermal Engineering, 2016, 108, 650-659.	6.0	13
47	A Numerical Study on the Thermal Behavior of Wellbores. , 2016, , .		1
48	Performance evaluation of an active magnetic regenerator for cooling applications – part I: Experimental analysis and thermodynamic performance. International Journal of Refrigeration, 2016, 72, 192-205.	3.4	57
49	Two-phase jet impingement heat sink integrated with a compact vapor compression system for electronics cooling. , 2016, , .		1
50	Performance evaluation of a magnetic refrigeration system. Science and Technology for the Built Environment, 2016, 22, 534-543.	1.7	18
51	The effect of the lubricating oil on heat transfer in a hermetic reciprocating compressor. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 189-208.	1.6	4
52	TRANSIENT MODEL AND ENERGY ASSESSMENT OF A DIGITAL SOLENOID VALVE SYSTEM FOR A MAGNETIC REFRIGERATOR. , 2016, , .		2
53	Influence of refrigerant solubility and surface geometry on the wetting properties of lubricating oil. International Journal of Refrigeration, 2015, 59, 157-167.	3.4	1
54	Experimental investigation on the prediction of liquid loading initiation in gas wells using a long vertical tube. Journal of Natural Gas Science and Engineering, 2015, 26, 1515-1529.	4.4	22

#	Article	lF	CITATIONS
55	Experimental investigation of two-phase flashing flows of a binary mixture of infinite relative volatility in a Venturi tube. Experimental Thermal and Fluid Science, 2015, 64, 152-163.	2.7	22
56	Design of nested Halbach cylinder arrays for magnetic refrigeration applications. Journal of Magnetism and Magnetic Materials, 2015, 395, 109-122.	2.3	52
57	Thermal Design of a Spray-Based Heat Sink Integrated With a Compact Vapor Compression Cooling System for Removal of High Heat Fluxes. Heat Transfer Engineering, 2015, 36, 1203-1217.	1.9	3
58	Magnetocaloric effect and H gradient in bulk La(Fe,Si)13Hy magnetic refrigerants obtained by HDSH. Journal of Magnetism and Magnetic Materials, 2015, 386, 125-128.	2.3	13
59	Refrigerant desorption and foaming in mixtures of HFC-134a and HFO-1234yf and a polyol ester lubricating oil. International Journal of Refrigeration, 2015, 53, 69-79.	3.4	8
60	Entropy Generation Minimization analysis of oscillating-flow regenerators. International Journal of Heat and Mass Transfer, 2015, 87, 347-358.	4.8	30
61	Liquid transport during gas flow transients applied to liquid loading in long vertical pipes. Experimental Thermal and Fluid Science, 2015, 68, 652-662.	2.7	18
62	Relative permittivity of mixtures of R-134a and R-1234yf and a polyol ester lubricating oil. International Journal of Refrigeration, 2015, 49, 141-150.	3.4	14
63	Infrared thermal imaging analysis of a 1-kW variable capacity compressor frequency inverter. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 275-284.	1.6	3
64	Modeling of Thermomagnetic Phenomena in Active Magnetocaloric Regenerators. Journal of Thermal Science and Engineering Applications, 2014, 6, .	1.5	30
65	Experimental assessment of the thermal–hydraulic performance of packed-sphere oscillating-flow regenerators using water. Experimental Thermal and Fluid Science, 2014, 57, 324-334.	2.7	27
66	Experimental and numerical results of a high frequency rotating active magnetic refrigerator. International Journal of Refrigeration, 2014, 37, 92-98.	3.4	58
67	Prediction of refrigerant-lubricant viscosity using the general PC-SAFT friction theory. International Journal of Refrigeration, 2014, 45, 92-99.	3.4	11
68	Developing air–water flow downstream of a vertical 180° return bend. International Journal of Multiphase Flow, 2014, 67, 32-41.	3.4	14
69	Convection-driven absorption of R-1234yf in lubricating oil. International Journal of Refrigeration, 2014, 44, 151-160.	3.4	23
70	Pressure drop and gas holdup in air–water flow in 180° return bends. International Journal of Multiphase Flow, 2014, 61, 83-93.	3.4	13
71	Entropy Generation Minimization Analysis of Passive and Active Magnetocaloric Regenerators. , 2014, ,		1
72	Axial development of annular, churn and slug flows in a long vertical tube. International Journal of Multiphase Flow, 2013, 57, 38-48.	3.4	56

#	Article	IF	CITATIONS
73	Analytical and CFD modeling of the fluid flow in an eccentric-tube centrifugal oil pump for hermetic compressors. International Journal of Refrigeration, 2013, 36, 1905-1915.	3.4	12
74	Performance analysis of a rotary active magnetic refrigerator. Applied Energy, 2013, 111, 669-680.	10.1	72
75	Synthesis of Room-Temperature Magnetic Refrigerants Based on La-Fe-Si by a Novel Process. IEEE Transactions on Magnetics, 2013, 49, 4626-4629.	2.1	6
76	Comparison of metal foam and louvered fins as air-side heat transfer enhancement media for miniaturized condensers. Applied Thermal Engineering, 2013, 51, 334-337.	6.0	12
77	Experimental evaluation of spray cooling of R-134a on plain and enhanced surfaces. International Journal of Refrigeration, 2013, 36, 527-533.	3.4	19
78	Modeling the stiction effect in automatic compressor valves. International Journal of Refrigeration, 2013, 36, 1916-1924.	3.4	15
79	A departure-function approach to calculate thermodynamic properties of refrigerant-oil mixtures. International Journal of Refrigeration, 2013, 36, 972-979.	3.4	11
80	Modeling Transient Churn-Annular Flows in a Long Vertical Pipe. , 2013, , .		0
81	Modeling of Thermo-Magnetic Phenomena in Active Magnetic Regenerators. , 2013, , .		1
82	A State-of-the-Art Review of Compact Vapor Compression Refrigeration Systems and Their Applications. Heat Transfer Engineering, 2012, 33, 356-374.	1.9	57
83	Experimental and Theoretical Analysis of CO <sub>2</sub> Absorption in Polyolester Oil Using the PC-SAFT Equation of State to Account for Nonideal Effects. Industrial & Engineering Chemistry Research, 2012, 51, 1027-1035.	3.7	4
84	Optimization of peripheral finned-tube evaporators using entropy generation minimization. International Journal of Heat and Mass Transfer, 2012, 55, 7838-7846.	4.8	31
85	Dynamics of gas bubble growth in oil-refrigerant mixtures under isothermal depressurization. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 155-166.	1.6	6
86	Spray cooling of plain and copper-foam enhanced surfaces. Experimental Thermal and Fluid Science, 2012, 39, 198-206.	2.7	20
87	Heat transfer and pressure drop characteristics of peripheral-finned tube heat exchangers. International Journal of Heat and Mass Transfer, 2012, 55, 2835-2843.	4.8	10
88	Thermodynamic comparison of Peltier, Stirling, and vapor compression portable coolers. Applied Energy, 2012, 91, 51-58.	10.1	82
89	Performance of microchannel condensers with metal foams on the air-side: Application in small-scale refrigeration systems. Applied Thermal Engineering, 2012, 36, 152-160.	6.0	35
90	A 2D hybrid model of the fluid flow and heat transfer in a reciprocating active magnetic regenerator. International Journal of Refrigeration, 2012, 35, 98-114.	3.4	34

#	Article	IF	CITATIONS
91	Assessment of demagnetization phenomena in the performance of an active magnetic regenerator. International Journal of Refrigeration, 2012, 35, 1043-1054.	3.4	25
92	Air-side heat transfer and pressure drop in spiral wire-on-tube condensers. International Journal of Refrigeration, 2012, 35, 939-951.	3.4	18
93	Experimental mapping of the thermodynamic losses in vapor compression refrigeration systems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2011, 33, 159-165.	1.6	17
94	Performance of Vertical Transient Two-Phase Flow Models Applied to Liquid Loading in Gas Wells. , 2011, , .		5
95	Fluid flow in a screw pump oil supply system for reciprocating compressors. International Journal of Refrigeration, 2011, 34, 74-83.	3.4	23
96	Air-side heat transfer and pressure drop characteristics of accelerated flow evaporators. International Journal of Refrigeration, 2011, 34, 484-497.	3.4	16
97	Absorption of isobutane (R-600a) in lubricant oil. Chemical Engineering Science, 2011, 66, 1906-1915.	3.8	10
98	COP-based optimization of accelerated flow evaporators for household refrigeration applications. Applied Thermal Engineering, 2011, 31, 129-135.	6.0	15
99	Experimental evaluation of a Gd-based linear reciprocating active magnetic regenerator test apparatus. International Journal of Refrigeration, 2011, 34, 1518-1526.	3.4	52
100	Recent Developments in Vapor Compression Technologies for Small Scale Refrigeration Applications. , 2011, , .		1
101	Air-Side Heat Transfer and Pressure Drop Characteristics of Peripheral Fin Heat Exchangers. , 2010, , .		2
102	Mini-channel evaporator/heat pipe assembly for a chip cooling vapor compression refrigeration system. International Journal of Refrigeration, 2010, 33, 1402-1412.	3.4	21
103	Solubility, density and viscosity of mixtures of isobutane (R-600a) and a linear alkylbenzene lubricant oil. Fluid Phase Equilibria, 2010, 292, 7-12.	2.5	21
104	Viscosity behavior of mixtures of CO2 and lubricant oil. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 454-459.	1.6	4
105	Modeling of state and thermodynamic cycle properties of HFO-1234yf using a cubic equation of state. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 461-467.	1.6	6
106	Analytical solution of single screw extrusion applicable to intermediate values of screw channel aspect ratio. Journal of Food Engineering, 2009, 92, 152-156.	5.2	21
107	A study of frost growth and densification on flat surfaces. Experimental Thermal and Fluid Science, 2009, 33, 371-379.	2.7	189
108	Phase and volumetric behaviour of mixtures of carbon dioxide (R-744) and synthetic lubricant oils. Journal of Supercritical Fluids, 2009, 50, 6-12.	3.2	9

#	Article	IF	CITATIONS
109	A study of the air-side heat transfer and pressure drop characteristics of tube-fin â€~no-frost' evaporators. Applied Energy, 2009, 86, 1484-1491.	10.1	37
110	Analysis of oil pumping in a reciprocating compressor. Applied Thermal Engineering, 2009, 29, 3118-3123.	6.0	29
111	Role of the Thermodynamics, Heat Transfer, and Fluid Mechanics of Lubricant Oil in Hermetic Reciprocating Compressors. Heat Transfer Engineering, 2009, 30, 533-548.	1.9	22
112	A study of frost nucleation on flat surfaces. Experimental Thermal and Fluid Science, 2008, 32, 1710-1715.	2.7	106
113	Prediction of refrigerant absorption and onset of natural convection in lubricant oil. International Journal of Refrigeration, 2008, 31, 1231-1240.	3.4	9
114	Solubility, density and viscosity of a mixture of R-600a and polyol ester oil. International Journal of Refrigeration, 2008, 31, 34-44.	3.4	29
115	Experimental and Theoretical Analysis of Refrigerant Absorption in Lubricant Oil. HVAC and R Research, 2008, 14, 141-158.	0.6	11
116	Flow boiling of water in a vertical tube at sub-atmospheric pressures. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2007, 29, .	1.6	3
117	Modeling absorption of pure refrigerants and refrigerant mixtures in lubricant oil. International Journal of Refrigeration, 2006, 29, 773-780.	3.4	17
118	A THERMODYNAMIC NON-EQUILIBRIUM SLUG FLOW MODEL EXPLAINS ENHANCEMENT OF BOILING HEAT TRANSFER IN WATER AT LOW PRESSURES. , 2006, , .		0
119	Measurements of the air flow field in the freezer compartment of a top-mount no-frost refrigerator: the effect of temperature. International Journal of Refrigeration, 2005, 28, 774-783.	3.4	22
120	Angiotensin I converting enzyme genotype affects ventricular remodelling in children with aortic coarctation. Heart, 2005, 91, 367-368.	2.9	5
121	A Thermodynamic Nonequilibrium Slug Flow Model. Journal of Heat Transfer, 2005, 127, 323-331.	2.1	12
122	Prediction of pressure drop in refrigerant–lubricant oil flows with high contents of oil and refrigerant outgassing in small diameter tubes. International Journal of Refrigeration, 2004, 27, 129-139.	3.4	19
123	A note on the influence of droplet interchange on evaporation and condensation of multicomponent mixtures in annular flow. International Journal of Heat and Mass Transfer, 2003, 46, 2505-2509.	4.8	8
124	High-speed visualisation of nucleate boiling in vertical annular flow. International Journal of Heat and Mass Transfer, 2003, 46, 5153-5160.	4.8	24
125	Forced convective boiling of steam–water in a vertical annulus at high qualities. Experimental Thermal and Fluid Science, 2002, 26, 65-75.	2.7	11
126	Liquid entrainment, droplet concentration and pressure gradient at the onset of annular flow in a vertical pipe. International Journal of Multiphase Flow, 2002, 28, 943-961.	3.4	83

#	Article	IF	CITATIONS
127	Forced convective boiling of ternary mixtures at high qualities. International Journal of Heat and Mass Transfer, 2002, 45, 2655-2665.	4.8	13
128	Improved Annular Flow Modelling of Pure Fluids and Multicomponent Mixtures. Chemical Engineering Research and Design, 2002, 80, 261-266.	5.6	2
129	Visualisation and modelling studies of churn flow in a vertical pipe. International Journal of Multiphase Flow, 2001, 27, 2105-2127.	3.4	61
130	Forced convective boiling of binary mixtures in annular flow. Part I: liquid phase mass transport. International Journal of Heat and Mass Transfer, 2001, 44, 1465-1474.	4.8	19
131	Forced convective boiling of binary mixtures in annular flow. Part II: heat and mass transfer. International Journal of Heat and Mass Transfer, 2001, 44, 1475-1484.	4.8	25
132	A STUDY OF DRYOUT IN ANNULAR FLOW OF SINGLE COMPONENT HYDROCARBONS AND THEIR MIXTURES. Multiphase Science and Technology, 2000, 12, 19.	0.5	4
133	An experimental study of a nanoparticle-assisted dielectric fluid in natural convection for subsea cooling applications. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	1