

G Venkatarathnam

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58

papers

783

citations

17

h-index

25

g-index

64

ext. papers

892

ext. citations

2.8

avg, IF

4.48

L-index

#	Paper	IF	Citations
58	Occurrence of pinch points in condensers and evaporators for zeotropic refrigerant mixtures. <i>International Journal of Refrigeration</i> , 1996 , 19, 361-368	3.8	70
57	Influence of surface evaporation on stratification in liquid hydrogen tanks of different aspect ratios. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1954-1960	6.7	59
56	Effect of mixture composition on the formation of pinch points in condensers and evaporators for zeotropic refrigerant mixtures. <i>International Journal of Refrigeration</i> , 1999 , 22, 205-215	3.8	41
55	Matrix heat exchangers and their application in cryogenic systems. <i>Cryogenics</i> , 1990 , 30, 907-918	1.8	39
54	Performance of a counterflow heat exchanger with heat loss through the wall at the cold end. <i>Cryogenics</i> , 1999 , 39, 43-52	1.8	36
53	A method for estimating the composition of the mixture to be charged to get the desired composition in circulation in a single stage JT refrigerator operating with mixtures. <i>Cryogenics</i> , 2010 , 50, 93-101	1.8	33
52	A Review of Refrigeration Methods in the Temperature Range 4B00 K. <i>Journal of Thermal Science and Engineering Applications</i> , 2011 , 3,	1.9	32
51	Identification of the phase of a fluid using partial derivatives of pressure, volume, and temperature without reference to saturation properties: Applications in phase equilibria calculations. <i>Fluid Phase Equilibria</i> , 2011 , 301, 225-233	2.5	29
50	Comparison of performance of a vapor absorption refrigeration system operating with some hydrofluorocarbons and hydrofluoroolefins as refrigerants along with ionic liquid [hmim][TF2N] as the absorbent. <i>International Journal of Refrigeration</i> , 2018 , 88, 370-382	3.8	28
49	Effect of anion chain length on physicochemical properties of N,N-dimethylethanolammonium based protic ionic liquids. <i>Fluid Phase Equilibria</i> , 2016 , 415, 1-7	2.5	24
48	Refrigerants for vapour compression refrigeration systems 2012 , 17, 139-162		21
47	Performance of a vapour absorption refrigeration system operating with ionic liquid-ammonia combination with water as cosolvent. <i>Applied Thermal Engineering</i> , 2014 , 72, 250-257	5.8	20
46	Performance of an auto refrigerant cascade refrigerator operating in gas refrigerant supply (GRS) mode with nitrogenHydrocarbon and argonHydrocarbon refrigerants. <i>Cryogenics</i> , 2009 , 49, 350-359	1.8	20
45	Effectiveness-Ntu relationship in perforated plate matrix heat exchangers. <i>Cryogenics</i> , 1996 , 36, 235-241	1.8	20
44	Relationship between composition of mixture charged and that in circulation in an auto refrigerant cascade and a J-T refrigerator operating in liquid refrigerant supply mode. <i>Cryogenics</i> , 2017 , 81, 42-46	1.8	18
43	Effect of mixture composition and hardware on the performance of a single stage JT refrigerator. <i>Cryogenics</i> , 2011 , 51, 446-451	1.8	18
42	Performance of a counter flow heat exchanger with longitudinal heat conduction through the wall separating the fluid streams from the environment. <i>Cryogenics</i> , 1999 , 39, 811-819	1.8	18

41	Performance of a vapour absorption heat transformer operating with ionic liquids and ammonia. <i>Energy</i> , 2017 , 141, 924-936	7.9	17
40	Analysis of performance of heat exchangers used in practical micro miniature refrigerators. <i>Cryogenics</i> , 1999 , 39, 517-527	1.8	17
39	Density Marching Method for Calculating Phase Envelopes. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3723-3730	3.9	16
38	Performance degradation due to longitudinal heat conduction in very high NTU counterflow heat exchangers. <i>Cryogenics</i> , 1998 , 38, 927-930	1.8	16
37	Performance of an auto refrigerant cascade refrigerator operating in liquid refrigerant supply (LRS) mode with different cascade heat exchangers. <i>Cryogenics</i> , 2010 , 50, 720-727	1.8	15
36	Analysis of Matrix Heat Exchanger Performance. <i>Journal of Heat Transfer</i> , 1991 , 113, 830-836	1.8	15
35	A review on transient test techniques for obtaining heat transfer design data of compact heat exchanger surfaces. <i>Experimental Thermal and Fluid Science</i> , 2011 , 35, 738-743	3	14
34	Transient testing of perforated plate matrix heat exchangers. <i>Cryogenics</i> , 2003 , 43, 101-109	1.8	14
33	Performance of an organic Rankine cycle with multicomponent mixtures. <i>Energy</i> , 2015 , 88, 690-696	7.9	13
32	Relationship between the cooldown characteristics of J-T refrigerators and mixture composition. <i>Cryogenics</i> , 2010 , 50, 421-425	1.8	12
31	Experimental Studies on a Heat Pump Operating With R22, R407C and R407A: Comparison From an Exergy Point of View. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2003 , 125, 101-112	2.6	12
30	Performance of two mixed refrigerant processes providing refrigeration at 70 K. <i>Cryogenics</i> , 2016 , 78, 66-73	1.8	10
29	Estimation of performance of a J-T refrigerators operating with nitrogen-hydrocarbon mixtures and a coiled tubes-in-tube heat exchanger. <i>Cryogenics</i> , 2018 , 92, 27-35	1.8	7
28	Density Marching Method for Calculating Phase Envelopes. 2. Three-Phase Envelopes. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12122-12128	3.9	7
27	A Method For Avoiding Trivial Roots in Isothermal Flash Calculations Using Cubic Equations of State. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 3530-3534	3.9	7
26	Density Marching Method for Drawing Phase Envelopes. 3. P-xy Diagrams of Binary Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13894-13904	3.9	6
25	Performance of some zeotropic mixtures as alternative refrigerants to R22 and R502. <i>International Journal of Energy Research</i> , 1998 , 22, 1065-1073	4.5	6
24	Performance comparison of HFC227 and CFC114 in compression heat pumps. <i>Applied Thermal Engineering</i> , 2003 , 23, 1559-1566	5.8	6

23	Optimization of Matrix Heat Exchanger Geometry. <i>Journal of Heat Transfer</i> , 2000 , 122, 579-586	1.8	5
22	Prediction of vapour-liquid and vapour-liquid-liquid equilibria of nitrogen-hydrocarbon mixtures used in J-T refrigerators. <i>Cryogenics</i> , 2018 , 90, 70-85	1.8	4
21	Studies on the performance of a small reciprocating compressor with different nitrogen-hydrocarbon mixtures. <i>International Journal of Refrigeration</i> , 2013 , 36, 2091-2096	3.8	4
20	An apparatus for the testing of small cryogenic heat exchangers. <i>Review of Scientific Instruments</i> , 1996 , 67, 584-588	1.7	4
19	Occurrence of Dry-Out Phenomenon in an Auto Refrigerant Cascade Refrigerator Operating With Zeotropic Mixtures. <i>Journal of Thermal Science and Engineering Applications</i> , 2017 , 9,	1.9	3
18	Measurement of the performance of very high effectiveness heat exchangers 2010 ,		3
17	The coefficient of performance of an ideal air conditioner. <i>International Journal of Refrigeration</i> , 2009 , 32, 1929-1931	3.8	3
16	Performance of a Throttle Cycle Refrigerator with Nitrogen-Hydrocarbon and Argon-Hydrocarbon Mixtures. <i>AIP Conference Proceedings</i> , 2004 ,	0	3
15	A Straightforward Method for the Sizing of Perforated Plate Matrix Heat Exchangers 1998 , 1643-1650		3
14	Prediction of vapour-liquid equilibria of neon-nitrogen, neon-oxygen and neon-argon mixtures used in J-T refrigerators. <i>Cryogenics</i> , 2020 , 106, 103039	1.8	2
13	Identification of the phase of a substance from the derivatives of pressure, volume and temperature, without prior knowledge of saturation properties: Extension to solid phase. <i>Fluid Phase Equilibria</i> , 2016 , 425, 269-277	2.5	2
12	Studies on capillary tube expansion device used in J-T refrigerators operating with nitrogen-hydrocarbon mixtures. <i>Cryogenics</i> , 2017 , 87, 76-84	1.8	2
11	Performance of a Linde-Hampson refrigerator operating from $-120\text{ }^{\circ}\text{C}$ to $-80\text{ }^{\circ}\text{C}$ with optimised R14-hydrocarbon mixtures exhibiting vapour-liquid-liquid equilibria. <i>Heat and Mass Transfer</i> , 2020 , 56, 1523-1535	2.2	2
10	Comparison of the Straight Adiabatic Capillary Tube Expansion Devices Used in Refrigeration Systems Operating With Refrigerants R134a and R1234yf. <i>Journal of Thermal Science and Engineering Applications</i> , 2016 , 8,	1.9	2
9	Performance of J-T refrigerators operating with mixtures and coiled wire-finned heat exchangers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 2169-2175	4.1	1
8	A mixed refrigerant cycle for providing refrigeration below 70 k for superconducting applications. <i>Indian Journal of Cryogenics</i> , 2014 , 39, 43	1.5	1
7	A general relation for identifying the liquid like and vapour like regions of supercritical fluids. <i>Canadian Journal of Chemical Engineering</i> , 2009 , 87, 568-571	2.3	1
6	Transient response of perforated plate matrix heat exchangers. <i>Cryogenics</i> , 1998 , 38, 1243-1249	1.8	1

- 5 CRESP - A Steady State Simulator for Cryogenic Process Plants **1994**, 1237-1244 1
- 4 Experimental investigation on mixed refrigerant cryocooler operating at 70 K for cooling high temperature superconductors. *IOP Conference Series: Materials Science and Engineering*, **2017**, 171, 012073⁴
- 3 Studies on Phase Shifting Mechanism in Pulse Tube Cryocooler. *IOP Conference Series: Materials Science and Engineering*, **2017**, 171, 012082 0.4
- 2 Closure to Discussion of Analysis of Matrix Heat Exchanger Performance (1998, ASME J. Heat Transfer, 120, pp. 801-803). *Journal of Heat Transfer*, **1998**, 120, 803-806 1.8
- 1 New pressure and density based methods for isothermal-isobaric flash calculations. *Fluid Phase Equilibria*, **2021**, 537, 112980 2.5