Kandadai Srinivasan

List of Publications by Year
in descending order

41 papers	1,271 citations	331670 21 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	940 citing authors

#	Article	IF	Citations
1	Supercritical carbon dioxide Brayton cycle for concentrated solar power. Journal of Supercritical Fluids, 2013, 76, 54-60.	3.2	166
2	Evaluation of isopentane, R-245fa and their mixtures as working fluids for organic Rankine cycles. Applied Thermal Engineering, 2013, 51, 292-300.	6.0	107
3	Theoretical Insight of Physical Adsorption for a Single-Component Adsorbent + Adsorbate System: I. Thermodynamic Property Surfaces. Langmuir, 2009, 25, 2204-2211.	3.5	78
4	Performance evaluation of a two-stage silicaÂgelÂ+Âwater adsorption based cooling-cum-desalination system. International Journal of Refrigeration, 2015, 58, 186-198.	3.4	69
5	Adsorption of 1,1,1,2-Tetrafluoroethane on Activated Charcoal. Journal of Chemical & Engineering Data, 2001, 46, 417-422.	1.9	62
6	Evaluation of Adsorption Parameters and Heats of Adsorption through Desorption Measurements. Journal of Chemical & Engineering Data, 2007, 52, 2419-2424.	1.9	62
7	Evaluation of carbon dioxide blends with isopentane and propane as working fluids for organic Rankine cycles. Applied Thermal Engineering, 2013, 52, 439-448.	6.0	61
8	Performance evaluation of combined adsorption refrigeration cycles. International Journal of Refrigeration, 2011, 34, 129-137.	3.4	55
9	Adsorption Thermodynamics of Silica Gelâ"Water Systems. Journal of Chemical & Engineering Data, 2009, 54, 448-452.	1.9	53
10	Thermodynamic formalism of minimum heat source temperature for driving advanced adsorption cooling device. Applied Physics Letters, 2007, 91, 111902.	3.3	50
11	Carbon dioxide based power generation in renewable energy systems. Applied Thermal Engineering, 2016, 109, 831-840.	6.0	43
12	Modeling study of two-stage, multi-bed air cooled silica gel + water adsorption cooling cum desalination system. Applied Thermal Engineering, 2017, 114, 704-712.	6.0	43
13	A method for the calculation of the adsorbed phase volume and pseudo-saturation pressure from adsorption isotherm data on activated carbon. Physical Chemistry Chemical Physics, 2011, 13, 12559.	2.8	41
14	Development and performance studies of an air cooled two-stage multi-bed silica-gelâ€‰+â€‰water adsorption system. International Journal of Refrigeration, 2016, 67, 174-189.	3.4	40
15	Simulation study of a two-stage adsorber system. Applied Thermal Engineering, 2014, 72, 283-288.	6.0	37
16	Adsorption Isotherms and Heat of Adsorption of Difluoromethane on Activated Carbons. Journal of Chemical & Engineering Data, 2013, 58, 2828-2834.	1.9	33
17	Theoretical Insight of Physical Adsorption for a Single Component Adsorbent + Adsorbate System: II. The Henry Region. Langmuir, 2009, 25, 7359-7367.	3.5	31
18	Influence of cycle time and collector area on solar driven adsorption chillers. Solar Energy, 2016, 136, 450-459.	6.1	31

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19	Isosteric heats of adsorption extracted from experiments of ethanol and HFC 134a on carbon based adsorbents. International Journal of Heat and Mass Transfer, 2007, 50, 902-907.	4.8	27
20	Adsorption of Equal Mass Fraction Near an Azeotropic Mixture of Pentafluoroethane and 1,1,1-Trifluoroethane on Activated Carbon. Journal of Chemical & Engineering Data, 2008, 53, 1872-1876.	1.9	24
21	Solar driven carbon dioxide Brayton cycle power generation with thermal compression. Applied Thermal Engineering, 2016, 109, 854-860.	6.0	22
22	Calculation of Heat of Adsorption of Gases and Refrigerants on Activated Carbons from Direct Measurements Fitted to the Dubininâ€“Astakhov Equation. Adsorption Science and Technology, 2012, 30, 549-565.	3.2	19
23	A trade-off between maxima in efficiency and specific work output of super- and trans-critical CO2 Brayton cycles. Journal of Supercritical Fluids, 2015, 98, 119-126.	3.2	14
24	Numerical Study of Heat Transfer From Pin-Fin Heat Sink Using Steady and Pulsated Impinging Jets. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 859-867.	1.3	13
25	Diurnal and environmental characterization of solar photovoltaic panels using a PC-AT add on plug in card. Solar Energy Materials and Solar Cells, 1996, 44, 25-36.	6.2	12
26	Adsorption of Nitrogen on Activated Carbon-Refit of Experimental Data and Derivation of Properties Required for Design of Equipment. Journal of Chemical & Engineering Data, 2009, 54, 2291-2295.	1.9	11
27	Silica Gelâ€‰+â€‰Water Adsorber Chiller and Desalination System: A Transient Heat Transfer Study. Journal of Thermal Science and Engineering Applications, 2016, 8, .	1.5	11
28	Instrumentation and control of a two-stage 4-bed silica gel+water adsorption cooling cum desalination system. Measurement: Journal of the International Measurement Confederation, 2016, 79, 29-43.	5.0	11
29	Realistic minimum desorption temperatures and compressor sizing for activated carbonÂ+ÂHFC 134a adsorption coolers. Applied Thermal Engineering, 2013, 51, 551-559.	6.0	10
30	Optimum operating conditions for an adsorption cryocooler: a case of activated carbon+nitrogen system. Cryogenics, 2005, 45, 193-197.	1.7	9
31	Waring and Riedel Functions for the Liquidâ€“Vapor Coexistence Curve. Industrial & Engineering Chemistry Research, 2012, 51, 3197-3202.	3.7	8
32	On isentropic lines and isentropic exponents. Journal of Chemical Thermodynamics, 2013, 56, 144-148.	2.0	3
33	Adsorption Characteristics of Maxsorb-III + Methane Systems by Desorption Experiments. , 2007, , 415.		2
34	Adsorption kinetics of propane on energetically heterogeneous activated carbon. Applied Thermal Engineering, 2014, 72, 206-210.	6.0	2
35	Activated carbonâ€“carbon dioxide based two stage adsorption compression Brayton cycle power generation. Adsorption, 2019, 25, 1663-1672.	3.0	2
36	CFC Alternatives â€" A Fresh Look. Environmental Conservation, 1992, 19, 339-342.	1.3	1

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37	On Thermodynamics of Advanced Adsorption Cooling Devices. , 2008, , .		1
38	Thermodynamic Property Slopes from Primary Measurements. International Journal of Mechanical Engineering Education, 2012, 40, 79-91.	1.0	1
39	Relation between the Isentropic Index and the GrÃ¼neisen Parameter for Saturated Liquids. Industrial & Engineering Chemistry Research, 2014, 53, 6866-6870.	3.7	1
40	Selected Papers from the International Symposium on Innovative Materials for Processes in Energy Systems 2010 (IMPRES2010): Part I. Heat Transfer Engineering, 2013, 34, 887-888.	1.9	0
41	Elevation of Heat Rejection Temperature in Transcritical Condensing Cycles Using CO2+Propane Mixtures. , 2014, , .		0