

S Jayaraj

List of Publications by Year in descending order

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35
papers

4,730
citations

279798

23
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

3922
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel production from high FFA rubber seed oil. Fuel, 2005, 84, 335-340.	6.4	1,009
2	Use of vegetable oils as I.C. engine fuels – A review. Renewable Energy, 2004, 29, 727-742.	8.9	635
3	Performance and emission evaluation of a diesel engine fueled with methyl esters of rubber seed oil. Renewable Energy, 2005, 30, 1789-1800.	8.9	547
4	Applications of artificial neural networks for refrigeration, air-conditioning and heat pump systems – A review. Renewable and Sustainable Energy Reviews, 2012, 16, 1340-1358.	16.4	322
5	Characterization and effect of using rubber seed oil as fuel in the compression ignition engines. Renewable Energy, 2005, 30, 795-803.	8.9	270
6	Applications of artificial neural networks for thermal analysis of heat exchangers – A review. International Journal of Thermal Sciences, 2015, 90, 150-172.	4.9	232
7	Environment friendly alternatives to halogenated refrigerants – A review. International Journal of Greenhouse Gas Control, 2009, 3, 108-119.	4.6	227
8	Effect of substrate pretreatment on biogas production through anaerobic digestion of food waste. International Journal of Hydrogen Energy, 2017, 42, 26522-26528.	7.1	168
9	Research and developments on solar assisted compression heat pump systems – A comprehensive review (Part A: Modeling and modifications). Renewable and Sustainable Energy Reviews, 2018, 83, 90-123.	16.4	156
10	Research and developments on solar assisted compression heat pump systems – A comprehensive review (Part-B: Applications). Renewable and Sustainable Energy Reviews, 2018, 83, 124-155.	16.4	140
11	Experimental investigation of R290/R600a mixture as an alternative to R134a in a domestic refrigerator. International Journal of Thermal Sciences, 2009, 48, 1036-1042.	4.9	128
12	A review on recent developments in new refrigerant mixtures for vapour compression-based refrigeration, air-conditioning and heat pump units. International Journal of Energy Research, 2011, 35, 647-669.	4.5	124
13	Multi-response optimization of process parameters in biogas production from food waste using Taguchi – Grey relational analysis. Energy Conversion and Management, 2017, 141, 429-438.	9.2	96
14	Performance prediction of a direct expansion solar assisted heat pump using artificial neural networks. Applied Energy, 2009, 86, 1442-1449.	10.1	85
15	Theoretical modeling and experimental studies on biodiesel-fueled engine. Renewable Energy, 2006, 31, 1813-1826.	8.9	83
16	Experimental and kinetic study on anaerobic digestion of food waste: The effect of total solids and pH. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	74
17	Kinetic study on the effect of temperature on biogas production using a lab scale batch reactor. Ecotoxicology and Environmental Safety, 2015, 121, 100-104.	6.0	56
18	Biogas from food waste through anaerobic digestion: optimization with response surface methodology. Biomass Conversion and Biorefinery, 2021, 11, 227-239.	4.6	49

#	ARTICLE	IF	CITATIONS
19	Numerical simulation of a heat pump assisted solar dryer for continental climates. Renewable Energy, 2019, 143, 214-225.	8.9	47
20	Exergy analysis of direct expansion solar-assisted heat pumps using artificial neural networks. International Journal of Energy Research, 2009, 33, 1005-1020.	4.5	45
21	Thermal analysis of heat pump systems using photovoltaic-thermal collectors: a review. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1-39.	3.6	44
22	Modeling of a Direct Expansion Solar Assisted Heat Pump Using Artificial Neural Networks. International Journal of Green Energy, 2008, 5, 520-532.	3.8	36
23	Exergy Assessment of a Direct Expansion Solar-Assisted Heat Pump Working with R22 and R407C/LPG Mixture. International Journal of Green Energy, 2010, 7, 65-83.	3.8	33
24	Improved energy efficiency for HFC134a domestic refrigerator retrofitted with hydrocarbon mixture (HC290/HC600a) as drop-in substitute. Energy for Sustainable Development, 2007, 11, 29-33.	4.5	22
25	A comparison of the performance of a direct expansion solar assisted heat pump working with R22 and a mixture of R407C and liquefied petroleum gas. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2009, 223, 821-833.	1.4	18
26	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A. Journal of Thermal Analysis and Calorimetry, 2018, 134, 2223-2237.	3.6	15
27	Parametric Studies of a Simple Direct Expansion Solar Assisted Heat Pump Using ANN and GA. Energy Procedia, 2016, 90, 625-634.	1.8	14
28	Parametric Studies of a Simple Direct Expansion Solar Assisted Heat Pump Operating in a Hot and Humid Environment. Energy Procedia, 2016, 90, 635-644.	1.8	13
29	Performance and emission studies on biodiesel-liquefied petroleum gas dual fuel engine with exhaust gas recirculation. Journal of Renewable and Sustainable Energy, 2010, 2, .	2.0	10
30	Thermodynamic analysis of a direct expansion solar-assisted heat pump system working with R290 as a drop-in substitute for R22. Journal of Thermal Analysis and Calorimetry, 2019, 136, 63-78.	3.6	9
31	Performance of hydrocarbon mixture in a direct expansion solar assisted heat pump system. Heat and Mass Transfer, 2019, 55, 965-977.	2.1	6
32	Experimental and kinetic study on anaerobic co-digestion of poultry manure and food waste. , 0, 59, 72-76.		6
33	Performance studies of R433A in a direct expansion solar-assisted heat pump. International Journal of Ambient Energy, 2020, 41, 262-273.	2.5	5
34	Experimental studies on photovoltaic-thermal heat pump water heaters using variable frequency drive compressors. Sustainable Energy Technologies and Assessments, 2021, 45, 101152.	2.7	5
35	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A. , 2018, 134, 2223.		1