

S Jayaraj

List of Publications by Year in descending order

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35
papers

4,730
citations

279487

23
h-index

395343

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. <i>Fuel</i> , 2005, 84, 335-340.	3.4	1,009
2	Use of vegetable oils as I.C. engine fuels – A review. <i>Renewable Energy</i> , 2004, 29, 727-742.	4.3	635
3	Performance and emission evaluation of a diesel engine fueled with methyl esters of rubber seed oil. <i>Renewable Energy</i> , 2005, 30, 1789-1800.	4.3	547
4	Applications of artificial neural networks for refrigeration, air-conditioning and heat pump systems – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1340-1358.	8.2	322
5	Characterization and effect of using rubber seed oil as fuel in the compression ignition engines. <i>Renewable Energy</i> , 2005, 30, 795-803.	4.3	270
6	Applications of artificial neural networks for thermal analysis of heat exchangers – A review. <i>International Journal of Thermal Sciences</i> , 2015, 90, 150-172.	2.6	232
7	Environment friendly alternatives to halogenated refrigerants – A review. <i>International Journal of Greenhouse Gas Control</i> , 2009, 3, 108-119.	2.3	227
8	Effect of substrate pretreatment on biogas production through anaerobic digestion of food waste. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26522-26528.	3.8	168
9	Research and developments on solar assisted compression heat pump systems – A comprehensive review (Part A: Modeling and modifications). <i>Renewable and Sustainable Energy Reviews</i> , 2018, 83, 90-123.	8.2	156
10	Research and developments on solar assisted compression heat pump systems – A comprehensive review (Part-B: Applications). <i>Renewable and Sustainable Energy Reviews</i> , 2018, 83, 124-155.	8.2	140
11	Experimental investigation of R290/R600a mixture as an alternative to R134a in a domestic refrigerator. <i>International Journal of Thermal Sciences</i> , 2009, 48, 1036-1042.	2.6	128
12	A review on recent developments in new refrigerant mixtures for vapour compression-based refrigeration, air-conditioning and heat pump units. <i>International Journal of Energy Research</i> , 2011, 35, 647-669.	2.2	124
13	Multi-response optimization of process parameters in biogas production from food waste using Taguchi – Grey relational analysis. <i>Energy Conversion and Management</i> , 2017, 141, 429-438.	4.4	96
14	Performance prediction of a direct expansion solar assisted heat pump using artificial neural networks. <i>Applied Energy</i> , 2009, 86, 1442-1449.	5.1	85
15	Theoretical modeling and experimental studies on biodiesel-fueled engine. <i>Renewable Energy</i> , 2006, 31, 1813-1826.	4.3	83
16	Experimental and kinetic study on anaerobic digestion of food waste: The effect of total solids and pH. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	0.8	74
17	Kinetic study on the effect of temperature on biogas production using a lab scale batch reactor. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 100-104.	2.9	56
18	Biogas from food waste through anaerobic digestion: optimization with response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 227-239.	2.9	49

#	ARTICLE	IF	CITATIONS
19	Numerical simulation of a heat pump assisted solar dryer for continental climates. <i>Renewable Energy</i> , 2019, 143, 214-225.	4.3	47
20	Exergy analysis of direct expansion solar-assisted heat pumps using artificial neural networks. <i>International Journal of Energy Research</i> , 2009, 33, 1005-1020.	2.2	45
21	Thermal analysis of heat pump systems using photovoltaic-thermal collectors: a review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1-39.	2.0	44
22	Modeling of a Direct Expansion Solar Assisted Heat Pump Using Artificial Neural Networks. <i>International Journal of Green Energy</i> , 2008, 5, 520-532.	2.1	36
23	Exergy Assessment of a Direct Expansion Solar-Assisted Heat Pump Working with R22 and R407C/LPG Mixture. <i>International Journal of Green Energy</i> , 2010, 7, 65-83.	2.1	33
24	Improved energy efficiency for HFC134a domestic refrigerator retrofitted with hydrocarbon mixture (HC290/HC600a) as drop-in substitute. <i>Energy for Sustainable Development</i> , 2007, 11, 29-33.	2.0	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. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2009, 223, 821-833.	0.8	18
26	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 2223-2237.	2.0	15
27	Parametric Studies of a Simple Direct Expansion Solar Assisted Heat Pump Using ANN and GA. <i>Energy Procedia</i> , 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. <i>Energy Procedia</i> , 2016, 90, 635-644.	1.8	13
29	Performance and emission studies on biodiesel-liquefied petroleum gas dual fuel engine with exhaust gas recirculation. <i>Journal of Renewable and Sustainable Energy</i> , 2010, 2, .	0.8	10
30	Thermodynamic analysis of a direct expansion solar-assisted heat pump system working with R290 as a drop-in substitute for R22. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 63-78.	2.0	9
31	Performance of hydrocarbon mixture in a direct expansion solar assisted heat pump system. <i>Heat and Mass Transfer</i> , 2019, 55, 965-977.	1.2	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. <i>International Journal of Ambient Energy</i> , 2020, 41, 262-273.	1.4	5
34	Experimental studies on photovoltaic-thermal heat pump water heaters using variable frequency drive compressors. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101152.	1.7	5
35	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A. , 2018, 134, 2223.		1