Anand Ramanathan

List of Publications by Year
in descending order

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55	1,631	471061 17	301761 39
papers	citations	h-index	g-index

55	55	55	1519
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of metal based additive on performance emission and combustion characteristics of diesel engine fuelled with biodiesel. Applied Energy, 2011, 88, 3694-3703.	5.1	349
2	Biodiesel production from waste cooking oil using KBr impregnated CaO as catalyst. Energy Conversion and Management, 2015, 91, 442-450.	4.4	173
3	Effect of injection pressure and injection timing on DI diesel engine fuelled with biodiesel from waste cooking oil. Biomass and Bioenergy, 2012, 46, 343-352.	2.9	162
4	Effect of biodiesel-diesel-n-pentanol and biodiesel-diesel-n-hexanol blends on diesel engine emission and combustion characteristics. Energy, 2017, 133, 761-776.	4.5	162
5	Experimental investigation on diesel engine with diestrolâ€“water micro emulsions. Energy, 2011, 36, 1680-1687.	4.5	119
6	Simulation of absorption refrigeration system for automobile application. Thermal Science, 2008, 12, 5-13.	0.5	79
7	Experimental evaluation of DI diesel engine operating with diestrol at varying injection pressure and injection timing. Fuel Processing Technology, 2011, 92, 2252-2263.	3.7	67
8	Artificial neural network applied forecast on a parametric study of Calophyllum inophyllum methyl ester-diesel engine out responses. Applied Energy, 2017, 189, 555-567.	5.1	64
9	Artificial neural network approach on forecasting diesel engine characteristics fuelled with waste frying oil biodiesel. Applied Energy, 2020, 263, 114612.	5.1	55
10	Impact of split injection strategy on combustion, performance and emissions characteristics of biodiesel fuelled common rail direct injection assisted diesel engine. Energy, 2018, 165, 577-592.	4.5	53
11	Modeling of process intensification of biodiesel production from Aegle Marmelos Correa seed oil using microreactor assisted with ultrasonic mixing. Ultrasonics Sonochemistry, 2020, 60, 104764.	3.8	47
12	Artificial neural network approach to study the effect of injection pressure and timing on diesel engine performance fueled with biodiesel. International Journal of Automotive Technology, 2013, 14, 507-519.	0.7	38
13	Studies on biodiesel production fromPongamiaoil using heterogeneous catalyst and its effect on diesel engine performance and emission characteristics. Biofuels, 2016, 7, 377-387.	1.4	27
14	A critical review of recent advancements in continuous flow reactors and prominent integrated microreactors for biodiesel production. Renewable and Sustainable Energy Reviews, 2022, 154, 111869.	8.2	27
15	Current Status of the Pyrolysis and Gasification Mechanism of Biomass. Energies, 2021, 14, 7541.	1.6	24
16	Assessment of pyrolysis waste engine oil as an alternative fuel source for diesel engine. Journal of Thermal Analysis and Calorimetry, 2020, 141, 2277-2293.	2.0	22
17	Studies on biodiesel production and its effect on DI diesel engine performance, emission and combustion characteristics. International Journal of Ambient Energy, 2011, 32, 179-193.	1.4	19
18	Experimental investigation on DMFCs using reduced noble metal loading with NiTiO3 as supportive material to enhance cell performances. International Journal of Hydrogen Energy, 2019, 44, 13415-13423.	3.8	19

#	Article	IF	Citations
19	Experimental investigation of tribo-corrosion and engine characteristics of Aegle Marmelos Correa biodiesel and its diesel blends on direct injection diesel engine. Energy, 2019, 171, 879-892.	4.5	18
20	Recycling of waste engine oil through pyrolysis process for the production of diesel like fuel and its uses in diesel engine. Energy, 2020, 197, 117240.	4.5	18
21	Artificial neural network approach for parametric investigation of biodiesel synthesis using biocatalyst and engine characteristics of diesel engine fuelled with Aegle Marmelos Correa biodiesel. Energy, 2021, 230, 120738.	4.5	16
22	Homogeneous catalysed biodiesel synthesis from Alexandrian Laurel (Calophyllum inophyllum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Energy, 2017, 14, 754-764.	2.1	9
23	Feasibility Analysis of Pyrolysis Waste Engine Oil in CRDI Diesel Engine. Energy Procedia, 2019, 158, 755-760.	1.8	8
24	Development of computer aided modelling and optimization of microwave pyrolysis of biomass by using aspen plus. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012006.	0.2	6
25	Effect of high-frequency microwave irradiation on Aegle Marmelos Correa oil extraction: kinetic and thermodynamic study. Energy Procedia, 2019, 158, 1046-1051.	1.8	6
26	Bio-Ethanol production from syngas-derived biomass: A review. Materials Today: Proceedings, 2021, 46, 9989-9993.	0.9	6
27	Comprehensive characterization of cashew nutshell for biomass gasification. Materials Today: Proceedings, 2021, 46, 9837-9843.	0.9	5
28	An experimental investigation of the effect of liquified petroleum gas addition on dual fuel diesel engine fuelled with pyrolysis waste engine oil. Materials Today: Proceedings, 2021, 46, 9800-9808.	0.9	5
29	Synthesis and characterization study of solid carbon biocatalyst produced from novel biomass char in a microwave pyrolysis. Materials Today: Proceedings, 2021, 46, 9814-9819.	0.9	5
30	Aspen HYSYS simulation of biomass pyrolysis for the production of methanol. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012015.	0.2	3
31	Theoretical analysis involved in the prediction of biomethane production from fruit wastes through anaerobic digestion. Materials Today: Proceedings, 2021, 46, 9788-9793.	0.9	3
32	Enhancing environmental sustainability through waste to energy conversion of neem leaves. Materials Today: Proceedings, 2021, 46, 10060-10064.	0.9	3
33	Effects of Thickness Offset on the Tube-to-Tube Sheet Expansion Joint Strength: An Experimental Evaluation. Journal of Materials Engineering and Performance, 2022, 31, 2770-2782.	1.2	3
34	Energy and Life Cycle Assessment of Solar Assisted Microwave Pyrolysis of Waste Biomass. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012017.	0.2	2
35	Production of biodiesel from Aegle marmelos correa seed oil for fuel cell application. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012018.	0.2	2
36	Design of an agitator in the anaerobic digester for mixing of biomass slurry. Materials Today: Proceedings, 2021, 46, 9678-9682.	0.9	2

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37	An experimental study of effects on tube to tube sheet expansion joint grip strength due to seal welding or blanking of adjacent bank tubes of bi-drum boiler. Materials Today: Proceedings, 2020, 46, 9328-9328.	0.9	2
38	Study on availability analysis, performance and emission behavior for an oxygen enriched turbocharged diesel engine. Materials Today: Proceedings, 2021, 46, 9862-9868.	0.9	2
39	Numerical prediction of gas composition from waste Ashoka and Neem leaves using downdraft gasifier. Materials Today: Proceedings, 2021, 46, 10054-10059.	0.9	1
40	A Paradigm Shift to Ensure Proper Ventilation and Better IAQ - The Energy Savings and Cost Benefits of a Dedicated Outdoor Air Approach. International Journal of Ventilation, 2008, 7, 279-285.	0.2	0
41	Production of methanol from biogas using methanotrophs for the application in a microbial fuel cell. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012005.	0.2	0
42	Argon localizing by concentration method for GTAW welding process of high chromium alloy steel pipes. Materials Today: Proceedings, 2020, , .	0.9	0
43	Apparatus and method for withdrawing a broken tube expander tool trapped in a bank tube during tubeexpansion processof Bi- drum boiler. Materials Today: Proceedings, 2021, 46, 10047-10053.	0.9	0
44	Development and testing of fixture to automate the welding process for hydro end cover plates. Materials Today: Proceedings, 2021, 46, 10065-10071.	0.9	0
45	The Microbiology Associated with Biogas Production Process. , 2020, , 209-232.		0
46	Current Status and Perspectives of Biogas Upgrading and Utilization. , 2020, , 233-254.		0
47	Biodiesel Production Techniques â€“ The State of the Art. , 2020, , 19-46.		0
48	Physicochemical and Thermal Properties of Biodiesel. , 2020, , 47-70.		0
49	Effect of Biodiesel and Additives on Diesel Engine Efficiency and Emission. , 2020, , 71-84.		0
50	Recent Advanced Injection Strategy on Biodiesel Combustion. , 2020, , 85-96.		0
51	Low-Temperature Combustion Technology on Biodiesel Combustion. , 2020, , 97-136.		0
52	Solid Waste Management. , 2020, , 137-162.		0
53	Assessment of Physicochemical Properties and Analytical Characterization of Lignocellulosic Biomass. , 2020, , 163-186.		0
54	Lignocellulosic Biomass Conversion into Second- and Third-Generation Biofuels. , 2020, , 187-208.		0

#	Article	IF	Citations
55	Global Energy Sources and Present Energy Scenario. , 2020, , 1-18.		0