

# Siddharth Jain

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

3,169  
citations

159585

30  
h-index

161849

54  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Establishment of correlations for the thermo-hydraulic parameters due to perforation in a multi-V rib roughened single pass solar air heater. <i>Experimental Heat Transfer</i> , 2023, 36, 597-616.	3.2	19
2	A review on bioenergy and biofuel production. <i>Materials Today: Proceedings</i> , 2022, 49, 510-516.	1.8	11
3	Potential and Challenges of Using Biodiesel in a Compression Ignition Engine. <i>Energy, Environment, and Sustainability</i> , 2022, , 289-317.	1.0	0
4	Effect of Biodiesel on Engine Performance and Emissions. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 383-393.	0.4	4
5	Production & optimization of biodiesel from rubber oil using BBD technique. <i>Materials Today: Proceedings</i> , 2021, 38, 69-73.	1.8	21
6	Photovoltaic cells cooling techniques for energy efficiency optimization. <i>Materials Today: Proceedings</i> , 2021, 46, 5458-5463.	1.8	4
7	Biochar: A source of nano catalyst in transesterification process. <i>Materials Today: Proceedings</i> , 2021, 46, 5501-5505.	1.8	2
8	Effectiveness of Homogeneous and Heterogeneous Catalyst on Biodiesel Yield: A Review. <i>Springer Proceedings in Energy</i> , 2021, , 375-385.	0.3	2
9	Impact of Methanol on Engine Performance and Emissions. <i>Energy, Environment, and Sustainability</i> , 2021, , 247-269.	1.0	3
10	A Detailed Analysis of Municipal Solid Waste Generation and Composition for Haridwar City, Uttarakhand, India. <i>Springer Proceedings in Energy</i> , 2021, , 855-868.	0.3	1
11	Classification and Synthesis of Nanoparticles: A Review. <i>Springer Proceedings in Energy</i> , 2021, , 1113-1125.	0.3	2
12	A Prospective Utilization of the Biomass for the Production of the Biodiesel. <i>Mini-Reviews in Organic Chemistry</i> , 2021, 18, 422-433.	1.3	0
13	A comprehensive review of the influence of physicochemical properties of biodiesel on combustion characteristics, engine performance and emissions. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2021, 8, 510-533.	4.2	34
14	Effects of Double V Cuts in Perforated Twisted Tape Insert: An Experimental Study. <i>Heat Transfer Engineering</i> , 2020, 41, 1473-1484.	1.9	31
15	Advances of Carbon Capture and Storage in Coal-Based Power Generating Units in an Indian Context. <i>Energies</i> , 2020, 13, 4124.	3.1	13
16	Process parameter optimization of biodiesel production from algal oil by response surface methodology and artificial neural networks. <i>Fuel</i> , 2020, 277, 118254.	6.4	75
17	Optimization of low-temperature transesterification of low FFA blend of sunflower oil and algae oil. <i>Fuel</i> , 2020, 279, 118459.	6.4	11
18	Study of Entropy Generation in Heat Exchanger Tube With Multiple V Cuts in Perforated Twisted Tape Insert. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	17

#	ARTICLE	IF	CITATIONS
19	The production of biodiesel using Karanja ( <i>Pongamia pinnata</i> ) and Jatropha ( <i>Jatropha curcas</i> ) Oil. , 2019, , 397-408.		11
20	The current and future perspectives of biofuels. , 2019, , 495-517.		4
21	Overview of Municipal Solid Waste Generation, Composition, and Management in India. Journal of Environmental Engineering, ASCE, 2019, 145, .	1.4	94
22	Effect of V cut in perforated twisted tape insert on heat transfer and fluid flow behavior of tube flow: An experimental study. Experimental Heat Transfer, 2019, 32, 524-544.	3.2	42
23	Prediction of jatropha-algae biodiesel blend oil yield with the application of artificial neural networks technique. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 1285-1295.	2.3	31
24	Response surface methodology based optimization of in situ transesterification of dry algae with methanol, H <sub>2</sub> SO <sub>4</sub> and NaOH. Fuel, 2019, 239, 511-520.	6.4	66
25	Development of Decision Model for Power Generation from Carbonized Food Waste. Waste and Biomass Valorization, 2018, 9, 1955-1960.	3.4	3
26	Options for the conversion of pulp and paper mill by-products in Western Canada. Sustainable Energy Technologies and Assessments, 2018, 26, 83-92.	2.7	10
27	Performance evaluation of adaptive neuro-fuzzy inference system and response surface methodology in modeling biodiesel synthesis from jatrophaâ€algae oil. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 3000-3008.	2.3	24
28	Low temperature optimization of biodiesel production from algal oil using CaO and CaO/Al <sub>2</sub> O <sub>3</sub> as catalyst by the application of response surface methodology. Energy, 2017, 140, 879-884.	8.8	65
29	Process parameter assessment of biodiesel production from a Jatrophaâ€algae oil blend by response surface methodology and artificial neural network. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 2119-2125.	2.3	47
30	Process parameter optimization of low temperature transesterification of algae-Jatropha Curcas oil blend. Energy, 2017, 119, 983-988.	8.8	32
31	Effect of Natural Fibers Surface Treatment and their Reinforcement in Thermo- Plastic Polymer Composites: A Review. Current Organic Synthesis, 2017, 14, 186-199.	1.3	7
32	Techno-Economic and Life Cycle Assessment for the Production of Green Composites. , 2017, , 407-413.		0
33	Development of a decision model for the techno-economic assessment of municipal solid waste utilization pathways. Waste Management, 2016, 48, 548-564.	7.4	51
34	Impact of biofuel production on water demand in Alberta.. Canadian Biosystems Engineering / Le Genie Des Biosystems Au Canada, 2015, 56, 8.11-8.22.	0.1	3
35	Cold flow properties improvement of Jatropha curcas biodiesel and waste cooking oil biodiesel using winterization and blending. Energy, 2015, 89, 702-707.	8.8	47
36	Emerging biorefinery technologies for Indian forest industry to reduce GHG emissions. Ecotoxicology and Environmental Safety, 2015, 121, 105-109.	6.0	8

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37	Composites from Bagasse Fibers, Its Characterization and Applications. , 2015, , 91-119.		2
38	A comprehensive review on operating parameters and different pretreatment methodologies for anaerobic digestion of municipal solid waste. Renewable and Sustainable Energy Reviews, 2015, 52, 142-154.	16.4	326
39	Effect of metal contents on oxidation stability of biodiesel/diesel blends. Fuel, 2014, 116, 14-18.	6.4	54
40	Processing and Properties of Bagasse Fibers. , 2014, , 63-75.		1
41	Effect of metal contaminants and antioxidants on the storage stability of Jatropha curcas biodiesel. Fuel, 2013, 109, 379-383.	6.4	41
42	Engine performance and emission analysis using oxidatively stabilized Jatropha curcas biodiesel. Fuel, 2013, 106, 152-156.	6.4	37
43	Correlation development between the oxidation and thermal stability of biodiesel. Fuel, 2012, 102, 354-358.	6.4	32
44	Application of thermogravimetric analysis for thermal stability of Jatropha curcas biodiesel. Fuel, 2012, 93, 252-257.	6.4	68
45	Naphthalene degradation by bacterial consortium (DV-AL) developed from Alang-Sosiya ship breaking yard, Gujarat, India. Bioresource Technology, 2012, 107, 122-130.	9.6	54
46	Optimization of Conversion of High Free Fatty Acid Jatropha curcas Oil to Biodiesel Using Response Surface Methodology. ISRN Chemical Engineering, 2012, 2012, 1-8.	1.2	18
47	Oxidation, Thermal, and Storage Stability Studies of Jatropha Curcas Biodiesel. , 2012, 2012, 1-15.		23
48	Correlation Development for the Effect of Metal Contaminants on the Thermal Stability of Jatropha curcas Biodiesel. Energy & Fuels, 2011, 25, 1276-1283.	5.1	11
49	Long term storage stability of Jatropha curcas biodiesel. Energy, 2011, 36, 5409-5415.	8.8	37
50	Optimization of long-term storage stability of Jatropha curcas biodiesel using antioxidants by means of response surface methodology. Biomass and Bioenergy, 2011, 35, 4008-4014.	5.7	10
51	Impact analysis of biodiesel on engine performanceâ€”A review. Renewable and Sustainable Energy Reviews, 2011, 15, 4633-4641.	16.4	144
52	Measurement of the Oxidation Stability of Biodiesel Using a Modified Karl Fischer Apparatus. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 899-905.	1.9	9
53	Correlation development for effect of metal contaminants on the oxidation stability of Jatropha curcas biodiesel. Fuel, 2011, 90, 2045-2050.	6.4	34
54	Oxidation stability of blends of Jatropha biodiesel with diesel. Fuel, 2011, 90, 3014-3020.	6.4	102

#	ARTICLE	IF	CITATIONS
55	Acid base catalyzed transesterification kinetics of waste cooking oil. Fuel Processing Technology, 2011, 92, 32-38.	7.2	118
56	Thermal stability of biodiesel and its blends: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 438-448.	16.4	91
57	Power generation from MSW of Haridwar city: A feasibility study. Renewable and Sustainable Energy Reviews, 2011, 15, 69-90.	16.4	40
58	Pongamia as a Source of Biodiesel in India. Smart Grid and Renewable Energy, 2011, 02, 184-189.	1.1	41
59	Prospects of biodiesel from Jatropha in India: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 763-771.	16.4	363
60	Stability of biodiesel and its blends: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 667-678.	16.4	321
61	Review of different test methods for the evaluation of stability of biodiesel. Renewable and Sustainable Energy Reviews, 2010, 14, 1937-1947.	16.4	76
62	Biodiesel production from Jatropha curcas oil. Renewable and Sustainable Energy Reviews, 2010, 14, 3140-3147.	16.4	134
63	Kinetics of acid base catalyzed transesterification of Jatropha curcas oil. Bioresource Technology, 2010, 101, 7701-7706.	9.6	153
64	Investigation of the shelf life of the optimized Neem biodiesel and its execution and excretion characteristics on automotive diesel engine. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-24.	2.3	4
65	Green Composites and Their Properties. Advances in Chemical and Materials Engineering Book Series, 0, , 148-164.	0.3	2
66	Natural Fibers for the Production of Green Composites. Advances in Chemical and Materials Engineering Book Series, 0, , 1-23.	0.3	2
67	Techno-Economic and Life Cycle Assessment for the Production of Green Composites. Advances in Chemical and Materials Engineering Book Series, 0, , 192-200.	0.3	0
68	Impact analysis of biodiesel production parameters for different catalyst. Environment, Development and Sustainability, 0, , 1.	5.0	16
69	Analysis of the effect of variation in open area ratio in perforated multi-V rib roughened single pass solar air heater- Part A. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-21.	2.3	8