

Arridina Susan Silitonga

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72
papers

6,125
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h-index

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78
ext. papers

7,163
ext. citations

6.6
avg, IF

6.14
L-index

#	Paper	IF	Citations
72	A comprehensive review on biodiesel as an alternative energy resource and its characteristics. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2070-2093	16.2	1126
71	Non-edible vegetable oils: A critical evaluation of oil extraction, fatty acid compositions, biodiesel production, characteristics, engine performance and emissions production. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 18, 211-245	16.2	770
70	Overview properties of biodiesel diesel blends from edible and non-edible feedstock. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 22, 346-360	16.2	230
69	Production and comparative fuel properties of biodiesel from non-edible oils: <i>Jatropha curcas</i> , <i>Sterculia foetida</i> and <i>Ceiba pentandra</i> . <i>Energy Conversion and Management</i> , 2013 , 73, 245-255	10.6	227
68	A review on prospect of <i>Jatropha curcas</i> for biodiesel in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3733-3756	16.2	221
67	Optimization of biodiesel production and engine performance from high free fatty acid <i>Calophyllum inophyllum</i> oil in CI diesel engine. <i>Energy Conversion and Management</i> , 2014 , 81, 30-40	10.6	218
66	Optimization of biodiesel production process for mixed <i>Jatropha curcas</i> / <i>Ceiba pentandra</i> biodiesel using response surface methodology. <i>Energy Conversion and Management</i> , 2016 , 115, 178-190	10.6	213
65	Engine performance and emissions using <i>Jatropha curcas</i> , <i>Ceiba pentandra</i> and <i>Calophyllum inophyllum</i> biodiesel in a CI diesel engine. <i>Energy</i> , 2014 , 69, 427-445	7.9	213
64	Patent landscape review on biodiesel production: Technology updates. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 118, 109526	16.2	200
63	Evaluation of the engine performance and exhaust emissions of biodiesel-bioethanol-diesel blends using kernel-based extreme learning machine. <i>Energy</i> , 2018 , 159, 1075-1087	7.9	161
62	Optimization of biodiesel production by microwave irradiation-assisted transesterification for waste cooking oil- <i>Calophyllum inophyllum</i> oil via response surface methodology. <i>Energy Conversion and Management</i> , 2018 , 158, 400-415	10.6	157
61	Biodiesel production from <i>Calophyllum inophyllum</i> - <i>Ceiba pentandra</i> oil mixture: Optimization and characterization. <i>Journal of Cleaner Production</i> , 2019 , 219, 183-198	10.3	140
60	Biodiesel synthesis from <i>Ceiba pentandra</i> oil by microwave irradiation-assisted transesterification: ELM modeling and optimization. <i>Renewable Energy</i> , 2020 , 146, 1278-1291	8.1	133
59	A review on global fuel economy standards, labels and technologies in the transportation sector. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 4586-4610	16.2	132
58	Experimental study on performance and exhaust emissions of a diesel engine fuelled with <i>Ceiba pentandra</i> biodiesel blends. <i>Energy Conversion and Management</i> , 2013 , 76, 828-836	10.6	120
57	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019 , 12, 3167	3.1	108
56	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	98

55	A review on the engine performance and exhaust emission characteristics of diesel engines fueled with biodiesel blends. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 15307-15325	5.1	92
54	Characterization and production of Ceiba pentandra biodiesel and its blends. <i>Fuel</i> , 2013 , 108, 855-858	7.1	76
53	Experimental study and prediction of the performance and exhaust emissions of mixed Jatropha curcas-Ceiba pentandra biodiesel blends in diesel engine using artificial neural networks. <i>Journal of Cleaner Production</i> , 2017 , 164, 618-633	10.3	75
52	Intensification of Reutealis trisperma biodiesel production using infrared radiation: Simulation, optimisation and validation. <i>Renewable Energy</i> , 2019 , 133, 520-527	8.1	75
51	Synthesis and optimization of Hevea brasiliensis and Ricinus communis as feedstock for biodiesel production: A comparative study. <i>Industrial Crops and Products</i> , 2016 , 85, 274-286	5.9	72
50	An overview of engine durability and compatibility using biodiesel/bioethanol/diesel blends in compression-ignition engines. <i>Energy Conversion and Management</i> , 2016 , 128, 66-81	10.6	70
49	Optimization of transesterification process for Ceiba pentandra oil: A comparative study between kernel-based extreme learning machine and artificial neural networks. <i>Energy</i> , 2017 , 134, 24-34	7.9	69
48	A global comparative review of biodiesel production from jatropha curcas using different homogeneous acid and alkaline catalysts: Study of physical and chemical properties. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 24, 514-533	16.2	63
47	Palm oil and its wastes as bioenergy sources: a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 14849-14866	5.1	56
46	A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine. <i>RSC Advances</i> , 2016 , 6, 14964-14992	3.7	56
45	A comparative study of biodiesel production methods for Reutealis trisperma biodiesel. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 2006-2014	1.6	55
44	Schleichera oleosa L oil as feedstock for biodiesel production. <i>Fuel</i> , 2015 , 156, 63-70	7.1	53
43	Production of biodiesel from Sterculia foetida and its process optimization. <i>Fuel</i> , 2013 , 111, 478-484	7.1	53
42	Recent advances in biodiesel production from agricultural products and microalgae using ionic liquids: Opportunities and challenges. <i>Energy Conversion and Management</i> , 2021 , 228, 113647	10.6	53
41	Biodiesel Conversion from High FFA Crude Jatropha Curcas, Calophyllum Inophyllum and Ceiba Pentandra Oil. <i>Energy Procedia</i> , 2014 , 61, 480-483	2.3	48
40	Biodiesel production from Calophyllum inophyllum/palm mixed oil. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 1283-1289	1.6	46
39	Optimization of bioethanol production from sorghum grains using artificial neural networks integrated with ant colony. <i>Industrial Crops and Products</i> , 2017 , 97, 146-155	5.9	46
38	Pilot-scale production and the physicochemical properties of palm and Calophyllum inophyllum biodiesels and their blends. <i>Journal of Cleaner Production</i> , 2016 , 126, 654-666	10.3	46

37	A comparative study of ultrasound and infrared transesterification of Sterculia foetida oil for biodiesel production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 1339-1346	1.6	45
36	Physicochemical property enhancement of biodiesel synthesis from hybrid feedstocks of waste cooking vegetable oil and Beauty leaf oil through optimized alkaline-catalysed transesterification. <i>Waste Management</i> , 2018 , 80, 435-449	8.6	42
35	Analysis of the performance, emission and combustion characteristics of a turbocharged diesel engine fuelled with Jatropha curcas biodiesel-diesel blends using kernel-based extreme learning machine. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 25383-25405	5.1	32
34	Optimization of extraction of lipid from Isochrysis galbana microalgae species for biodiesel synthesis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 1167-1175	1.6	29
33	Optimization of Reducing Sugar Production from Manihot glaziovii Starch Using Response Surface Methodology. <i>Energies</i> , 2017 , 10, 35	3.1	29
32	Feasibility of microalgae as feedstock for alternative fuel in Malaysia: A review. <i>Energy Strategy Reviews</i> , 2020 , 32, 100536	9.8	28
31	Review on fuel economy standard and label for vehicle in selected ASEAN countries. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 1683-1695	16.2	26
30	Optimization of ultrasound-assisted oil extraction from Canarium odontophyllum kernel as a novel biodiesel feedstock. <i>Journal of Cleaner Production</i> , 2021 , 288, 125563	10.3	26
29	A Mini Review on the Cold Flow Properties of Biodiesel and its Blends. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	24
28	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019 , 12, 4116	3.1	24
27	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. <i>Energies</i> , 2019 , 12, 3557	3.1	23
26	Prospect of using rice straw for power generation: a review. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 25956-25969	5.1	22
25	Physicochemical Properties of Biodiesel Synthesised from Grape Seed, Philippine Tung, Kesambi, and Palm Oils. <i>Energies</i> , 2020 , 13, 1319	3.1	20
24	Experimental Investigation, Techno-Economic Analysis and Environmental Impact of Bioethanol Production from Banana Stem. <i>Energies</i> , 2019 , 12, 3947	3.1	16
23	Prediction of engine performance and emissions with Manihot glaziovii bioethanol Gasoline blended using extreme learning machine. <i>Fuel</i> , 2017 , 210, 914-921	7.1	16
22	The Performance and Exhaust Emissions of a Diesel Engine Fuelled with Calophyllum inophyllum Palm Biodiesel. <i>Processes</i> , 2019 , 7, 597	2.9	14
21	Lipid Extraction Maximization and Enzymatic Synthesis of Biodiesel from Microalgae. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6103	2.6	14
20	Investigation of Biodiesel Production from Cerbera manghas Biofuel Sources. <i>Energy Procedia</i> , 2014 , 61, 436-439	2.3	12

19	The Effect of Multi-Walled Carbon Nanotubes-Additive in Physicochemical Property of Rice Brand Methyl Ester: Optimization Analysis. <i>Energies</i> , 2019 , 12, 3291	3.1	11
18	Effect of Ethanol and Gasoline Blending on the Performance of a Stationary Small Single Cylinder Engine. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 5793-5802	2.5	11
17	Techno-Economic Analysis and Physicochemical Properties of Ceiba pentandra as Second-Generation Biodiesel Based on ASTM D6751 and EN 14214. <i>Processes</i> , 2019 , 7, 636	2.9	11
16	Techno-economic analysis and environmental impact of fuel economy labels for passenger cars in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 5212-5217	16.2	11
15	Optimization of Cerbera manghas Biodiesel Production Using Artificial Neural Networks Integrated with Ant Colony Optimization. <i>Energies</i> , 2019 , 12, 3811	3.1	11
14	Production Process and Optimization of Solid Bioethanol from Empty Fruit Bunches of Palm Oil Using Response Surface Methodology. <i>Processes</i> , 2019 , 7, 715	2.9	11
13	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. <i>Energies</i> , 2021 , 14, 3732	3.1	7
12	Cost benefit analysis and environmental impact of fuel economy standards for passenger cars in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 3547-3558	16.2	6
11	Optimisation of biodiesel production from mixed Sterculia foetida and rice bran oil. <i>International Journal of Ambient Energy</i> , 1-11	2	6
10	Biodiesel Production from Reutealis trisperma Oil Using Conventional and Ultrasonication through Esterification and Transesterification. <i>Sustainability</i> , 2021 , 13, 3350	3.6	5
9	An Ultrasound Assisted Transesterification to Optimize Biodiesel Production from Rice Bran Oil 2020 , 11, 225		4
8	Production of biodiesel from Jatropha curcas mixed with waste cooking oil assisted by ultrasound. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 476, 012082	0.3	4
7	Experimental Study on the Performance of an SI Engine Fueled by Waste Plastic Pyrolysis Oil/Gasoline Blends. <i>Energies</i> , 2020 , 13, 4196	3.1	4
6	Properties and corrosion behaviors of mild steel in biodiesel-diesel blends. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-13	1.6	3
5	The potential biodiesel production from Cerbera odollam oil (Bintaro) in Aceh. <i>MATEC Web of Conferences</i> , 2018 , 159, 01049	0.3	3
4	Corrosion behaviours of mild steel in biodiesel-diesel fuel blend 2018 ,		1
3	Tribological study on the biodiesel produced from waste cooking oil, waste cooking oil blend with Calophyllum inophyllum and its diesel blends on lubricant oil. <i>Energy Reports</i> , 2022 , 8, 1578-1590	4.6	0
2	The effect of ultrasound duty cycle in biodiesel production from Ceiba pentandra. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 753, 012031	0.3	0

- 1 Energy Economical and Environmental Analysis of Industrial Boilers Using VSD. *Applied Mechanics and Materials*, **2011**, 110-116, 3223-3233 0.3