Arridina Susan Silitonga

List of Publications by Year
in descending order

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77 papers	8,242 citations	71097 41 h-index	82542 72 g-index
80 all docs	80 docs citations	80 times ranked	5977 citing authors

#	Article	IF	Citations
1	A comprehensive review on biodiesel as an alternative energy resource and its characteristics. Renewable and Sustainable Energy Reviews, 2012, 16, 2070-2093.	16.4	1,383
2	Non-edible vegetable oils: A critical evaluation of oil extraction, fatty acid compositions, biodiesel production, characteristics, engine performance and emissions production. Renewable and Sustainable Energy Reviews, 2013, 18, 211-245.	16.4	953
3	Patent landscape review on biodiesel production: Technology updates. Renewable and Sustainable Energy Reviews, 2020, 118, 109526.	16.4	298
4	Optimization of biodiesel production process for mixed Jatropha curcasâ€“Ceiba pentandra biodiesel using response surface methodology. Energy Conversion and Management, 2016, 115, 178-190.	9.2	281
5	Overview properties of biodiesel diesel blends from edible and non-edible feedstock. Renewable and Sustainable Energy Reviews, 2013, 22, 346-360.	16.4	276
6	Production and comparative fuel properties of biodiesel from non-edible oils: Jatropha curcas, Sterculia foetida and Ceiba pentandra. Energy Conversion and Management, 2013, 73, 245-255.	9.2	271
7	Optimization of biodiesel production and engine performance from high free fatty acid Calophyllum inophyllum oil in CI diesel engine. Energy Conversion and Management, 2014, 81, 30-40.	9.2	267
8	A review on prospect of Jatropha curcas for biodiesel in Indonesia. Renewable and Sustainable Energy Reviews, 2011, 15, 3733-3756.	16.4	266
9	Engine performance and emissions using Jatropha curcas, Ceiba pentandra and Calophyllum inophyllum biodiesel in a CI diesel engine. Energy, 2014, 69, 427-445.	8.8	252
10	Optimization of biodiesel production by microwave irradiation-assisted transesterification for waste cooking oil-Calophyllum inophyllum oil via response surface methodology. Energy Conversion and Management, 2018, 158, 400-415.	9.2	222
11	Evaluation of the engine performance and exhaust emissions of biodiesel-bioethanol-diesel blends using kernel-based extreme learning machine. Energy, 2018, 159, 1075-1087.	8.8	217
12	State of the Art of Catalysts for Biodiesel Production. Frontiers in Energy Research, 2020, 8, .	2.3	214
13	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. Energies, 2019, 12, 3167.	3.1	197
14	Biodiesel synthesis from Ceiba pentandra oil by microwave irradiation-assisted transesterification: ELM modeling and optimization. Renewable Energy, 2020, 146, 1278-1291.	8.9	187
15	A review on global fuel economy standards, labels and technologies in the transportation sector. Renewable and Sustainable Energy Reviews, 2011, 15, 4586-4610.	16.4	176
16	Biodiesel production from Calophyllum inophyllum-Ceiba pentandra oil mixture: Optimization and characterization. Journal of Cleaner Production, 2019, 219, 183-198.	9.3	174
17	Experimental study on performance and exhaust emissions of a diesel engine fuelled with Ceiba pentandra biodiesel blends. Energy Conversion and Management, 2013, 76, 828-836.	9.2	139
18	A review on the engine performance and exhaust emission characteristics of diesel engines fueled with biodiesel blends. Environmental Science and Pollution Research, 2018, 25, 15307-15325.	5.3	136

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19	Recent advances in biodiesel production from agricultural products and microalgae using ionic liquids: Opportunities and challenges. Energy Conversion and Management, 2021, 228, 113647.	9.2	114
20	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. Journal of Cleaner Production, 2017, 164, 618-633.	9.3	104
21	An overview of engine durability and compatibility using biodieselâ€“bioethanolâ€“diesel blends in compression-ignition engines. Energy Conversion and Management, 2016, 128, 66-81.	9.2	99
22	Intensiï¬cation of Reutealis trisperma biodiesel production using infrared radiation: Simulation, optimisation and validation. Renewable Energy, 2019, 133, 520-527.	8.9	94
23	Characterization and production of Ceiba pentandra biodiesel and its blends. Fuel, 2013, 108, 855-858.	6.4	89
24	Optimization of transesterification process for Ceiba pentandra oil: A comparative study between kernel-based extreme learning machine and artificial neural networks. Energy, 2017, 134, 24-34.	8.8	89
25	Palm oil and its wastes as bioenergy sources: a comprehensive review. Environmental Science and Pollution Research, 2019, 26, 14849-14866.	5.3	86
26	Synthesis and optimization of Hevea brasiliensis and Ricinus communis as feedstock for biodiesel production: A comparative study. Industrial Crops and Products, 2016, 85, 274-286.	5.2	84
27	A global comparative review of biodiesel production from jatropha curcas using different homogeneous acid and alkaline catalysts: Study of physical and chemical properties. Renewable and Sustainable Energy Reviews, 2013, 24, 514-533.	16.4	81
28	A comparative study of biodiesel production methods for Reutealis trisperma biodiesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 2006-2014.	2.3	71
29	A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine. RSC Advances, 2016, 6, 14964-14992.	3.6	70
30	Optimization of bioethanol production from sorghum grains using artificial neural networks integrated with ant colony. Industrial Crops and Products, 2017, 97, 146-155.	5.2	67
31	Biodiesel Conversion from High FFA Crude Jatropha Curcas, Calophyllum Inophyllum and Ceiba Pentandra Oil. Energy Procedia, 2014, 61, 480-483.	1.8	64
32	Biodiesel production from Calophyllum inophyllumâ€™palm mixed oil. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 1283-1289.	2.3	64
33	Physicochemical property enhancement of biodiesel synthesis from hybrid feedstocks of waste cooking vegetable oil and Beauty leaf oil through optimized alkaline-catalysed transesterification. Waste Management, 2018, 80, 435-449.	7.4	63
34	Production of biodiesel from Sterculia foetida and its process optimization. Fuel, 2013, 111, 478-484.	6.4	61
35	Schleichera oleosa L oil as feedstock for biodiesel production. Fuel, 2015, 156, 63-70.	6.4	61
36	Optimization of ultrasound-assisted oil extraction from Canarium odontophyllum kernel as a novel biodiesel feedstock. Journal of Cleaner Production, 2021, 288, 125563.	9.3	59

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37	Pilot-scale production and the physicochemical properties of palm and Calophyllum inophyllum biodiesels and their blends. Journal of Cleaner Production, 2016, 126, 654-666.	9.3	58
38	Prospect of using rice straw for power generation: a review. Environmental Science and Pollution Research, 2020, 27, 25956-25969.	5.3	57
39	A comparative study of ultrasound and infrared transesterii¬€ation of Sterculia foetida oil for biodiesel production. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 1339-1346.	2.3	51
40	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. Energies, 2021, 14, 3732.	3.1	50
41	Feasibility of microalgae as feedstock for alternative fuel in Malaysia: A review. Energy Strategy Reviews, 2020, 32, 100536.	7.3	48
42	A Mini Review on the Cold Flow Properties of Biodiesel and its Blends. Frontiers in Energy Research, 2020, 8, .	2.3	46
43	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. Environmental Science and Pollution Research, 2017, 24, 25383-25405.	5.3	45
44	Potential of Rice Industry Biomass as a Renewable Energy Source. Energies, 2019, 12, 4116.	3.1	38
45	Optimization of extraction of lipid from Isochrysis galbana microalgae species for biodiesel synthesis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 1167-1175.	2.3	37
46	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. Energies, 2019, 12, 3557.	3.1	37
47	Optimization of Reducing Sugar Production from Manihot glaziovii Starch Using Response Surface Methodology. Energies, 2017, 10, 35.	3.1	35
48	Review on fuel economy standard and label for vehicle in selected ASEAN countries. Renewable and Sustainable Energy Reviews, 2012, 16, 1683-1695.	16.4	30
49	Lipid Extraction Maximization and Enzymatic Synthesis of Biodiesel from Microalgae. Applied Sciences (Switzerland), 2020, 10, 6103.	2.5	30
50	Physicochemical Properties of Biodiesel Synthesised from Grape Seed, Philippine Tung, Kesambi, and Palm Oils. Energies, 2020, 13, 1319.	3.1	27
51	Prediction of engine performance and emissions with Manihot glaziovii bioethanol â^' Gasoline blended using extreme learning machine. Fuel, 2017, 210, 914-921.	6.4	26
52	Effect of Ethanol and Gasoline Blending on the Performance of a Stationary Small Single Cylinder Engine. Arabian Journal for Science and Engineering, 2020, 45, 5793-5802.	3.0	26
53	Current Progress of Jatropha Curcas Commoditisation as Biodiesel Feedstock: A Comprehensive Review. Frontiers in Energy Research, 2022, 9, .	2.3	24
54	Experimental Investigation, Techno-Economic Analysis and Environmental Impact of Bioethanol Production from Banana Stem. Energies, 2019, 12, 3947.	3.1	22

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55	Optimization of Cerbera manghas Biodiesel Production Using Artificial Neural Networks Integrated with Ant Colony Optimization. Energies, 2019, 12, 3811.	3.1	22
56	Techno-Economic Analysis and Physicochemical Properties of Ceiba pentandra as Second-Generation Biodiesel Based on ASTM D6751 and EN 14214. Processes, 2019, 7, 636.	2.8	20
57	Tribological study on the biodiesel produced from waste cooking oil, waste cooking oil blend with Calophyllum inophyllum and its diesel blends on lubricant oil. Energy Reports, 2022, 8, 1578-1590.	5.1	20
58	The Performance and Exhaust Emissions of a Diesel Engine Fuelled with Calophyllum inophyllumâ€"Palm Biodiesel. Processes, 2019, 7, 597.	2.8	17
59	Investigation of Biodiesel Production from Cerbera Manghas Biofuel Sources. Energy Procedia, 2014, 61, 436-439.	1.8	16
60	Optimisation of biodiesel production from mixed Sterculia foetida and rice bran oil. International Journal of Ambient Energy, 2022, 43, 4380-4390.	2.5	15
61	Production Process and Optimization of Solid Bioethanol from Empty Fruit Bunches of Palm Oil Using Response Surface Methodology. Processes, 2019, 7, 715.	2.8	14
62	Experimental Study on the Performance of an SI Engine Fueled by Waste Plastic Pyrolysis Oilâ€"Gasoline Blends. Energies, 2020, 13, 4196.	3.1	14
63	Biodiesel Production from Reutealis trisperma Oil Using Conventional and Ultrasonication through Esterification and Transesterification. Sustainability, 2021, 13, 3350.	3.2	14
64	The Effect of Multi-Walled Carbon Nanotubes-Additive in Physicochemical Property of Rice Brand Methyl Ester: Optimization Analysis. Energies, 2019, 12, 3291.	3.1	12
65	Techno-economic analysis and environmental impact of fuel economy labels for passenger cars in Indonesia. Renewable and Sustainable Energy Reviews, 2011, 15, 5212-5217.	16.4	11
66	Modelling and prediction approach for engine performance and exhaust emission based on artificial intelligence of sterculia foetida biodiesel. Energy Reports, 2022, 8, 8333-8345.	5.1	10
67	Properties and corrosion behaviors of mild steel in biodiesel-diesel blends. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 3887-3899.	2.3	9
68	An Ultrasound Assisted Transesterification to Optimize Biodiesel Production from Rice Bran Oil. International Journal of Technology, 2020, 11, 225.	0.8	7
69	Cost benefit analysis and environmental impact of fuel economy standards for passenger cars in Indonesia. Renewable and Sustainable Energy Reviews, 2012, 16, 3547-3558.	16.4	6
70	The potential biodiesel production from Cerbera odollam oil (Bintaro) in Aceh. MATEC Web of Conferences, 2018, 159, 01049.	0.2	5
71	Production of biodiesel from Jatropha curcas mixed with waste cooking oil assisted by ultrasound. IOP Conference Series: Earth and Environmental Science, 2020, 476, 012082.	0.3	5
72	Experimental study on the performance and exhaust emissions of biodiesel bioethanol diesel fuel blends in diesel engine. , 2018, , .		2

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73	Corrosion behaviours of mild steel in biodiesel-diesel fuel blend. , 2018, , .		2
74	The effect of ultrasound duty cycle in biodiesel production from Ceiba pentandra. IOP Conference Series: Earth and Environmental Science, 2021, 753, 012031.	0.3	1
75	Energy Economical and Environmental Analysis of Industrial Boilers Using VSD. Applied Mechanics and Materials, 0, 110-116, 3223-3233.	0.2	0
76	Pengaruh Campuran Bahan Bakar Pertalite-Bioetanol Biji Sorghum pada Mesin Bensin. Jurnal Teknosains: Jurnal Ilmiah Sains Dan Teknologi, 2020, 9, 91.	0.1	0
77	Experimental Study of the Corrosiveness of Ternary Blends of Biodiesel Fuel. Frontiers in Energy Research, 2021, 9, .	2.3	0