

Arridina Susan Silitonga

List of Publications by Year in descending order

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77
papers

8,242
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71061

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docs citations

80
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5977
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on biodiesel as an alternative energy resource and its characteristics. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2070-2093.	8.2	1,383
2	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.	8.2	953
3	Patent landscape review on biodiesel production: Technology updates. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 118, 109526.	8.2	298
4	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.	4.4	281
5	Overview properties of biodiesel diesel blends from edible and non-edible feedstock. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 22, 346-360.	8.2	276
6	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.	4.4	271
7	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.	4.4	267
8	A review on prospect of <i>Jatropha curcas</i> for biodiesel in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3733-3756.	8.2	266
9	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.	4.5	252
10	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.	4.4	222
11	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.	4.5	217
12	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	214
13	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019, 12, 3167.	1.6	197
14	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.	4.3	187
15	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.	8.2	176
16	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.	4.6	174
17	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.	4.4	139
18	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.	2.7	136

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19	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.	4.4	114
20	Experimental study and prediction of the performance and exhaust emissions of mixed <i>Jatropha curcas</i> - <i>Ceiba pentandra</i> biodiesel blends in diesel engine using artificial neural networks. <i>Journal of Cleaner Production</i> , 2017, 164, 618-633.	4.6	104
21	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.	4.4	99
22	Intensification of <i>Reutealis trisperma</i> biodiesel production using infrared radiation: Simulation, optimisation and validation. <i>Renewable Energy</i> , 2019, 133, 520-527.	4.3	94
23	Characterization and production of <i>Ceiba pentandra</i> biodiesel and its blends. <i>Fuel</i> , 2013, 108, 855-858.	3.4	89
24	Optimization of transesterification process for <i>Ceiba pentandra</i> oil: A comparative study between kernel-based extreme learning machine and artificial neural networks. <i>Energy</i> , 2017, 134, 24-34.	4.5	89
25	Palm oil and its wastes as bioenergy sources: a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 14849-14866.	2.7	86
26	Synthesis and optimization of <i>Hevea brasiliensis</i> and <i>Ricinus communis</i> as feedstock for biodiesel production: A comparative study. <i>Industrial Crops and Products</i> , 2016, 85, 274-286.	2.5	84
27	A global comparative review of biodiesel production from <i>Jatropha curcas</i> using different homogeneous acid and alkaline catalysts: Study of physical and chemical properties. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 24, 514-533.	8.2	81
28	A comparative study of biodiesel production methods for <i>Reutealis trisperma</i> biodiesel. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 2006-2014.	1.2	71
29	A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine. <i>RSC Advances</i> , 2016, 6, 14964-14992.	1.7	70
30	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.	2.5	67
31	Biodiesel Conversion from High FFA Crude <i>Jatropha Curcas</i> , <i>Calophyllum Inophyllum</i> and <i>Ceiba Pentandra</i> Oil. <i>Energy Procedia</i> , 2014, 61, 480-483.	1.8	64
32	Biodiesel production from <i>Calophyllum inophyllum</i> palm mixed oil. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1283-1289.	1.2	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. <i>Waste Management</i> , 2018, 80, 435-449.	3.7	63
34	Production of biodiesel from <i>Sterculia foetida</i> and its process optimization. <i>Fuel</i> , 2013, 111, 478-484.	3.4	61
35	<i>Schleichera oleosa</i> L oil as feedstock for biodiesel production. <i>Fuel</i> , 2015, 156, 63-70.	3.4	61
36	Optimization of ultrasound-assisted oil extraction from <i>Canarium odontophyllum</i> kernel as a novel biodiesel feedstock. <i>Journal of Cleaner Production</i> , 2021, 288, 125563.	4.6	59

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37	Pilot-scale production and the physicochemical properties of palm and <i>Calophyllum inophyllum</i> biodiesels and their blends. <i>Journal of Cleaner Production</i> , 2016, 126, 654-666.	4.6	58
38	Prospect of using rice straw for power generation: a review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 25956-25969.	2.7	57
39	A comparative study of ultrasound and infrared transesterification of <i>Sterculia foetida</i> oil for biodiesel production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1339-1346.	1.2	51
40	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. <i>Energies</i> , 2021, 14, 3732.	1.6	50
41	Feasibility of microalgae as feedstock for alternative fuel in Malaysia: A review. <i>Energy Strategy Reviews</i> , 2020, 32, 100536.	3.3	48
42	A Mini Review on the Cold Flow Properties of Biodiesel and its Blends. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	46
43	Analysis of the performance, emission and combustion characteristics of a turbocharged diesel engine fuelled with <i>Jatropha curcas</i> biodiesel-diesel blends using kernel-based extreme learning machine. <i>Environmental Science and Pollution Research</i> , 2017, 24, 25383-25405.	2.7	45
44	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019, 12, 4116.	1.6	38
45	Optimization of extraction of lipid from <i>Isochrysis galbana</i> microalgae species for biodiesel synthesis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1167-1175.	1.2	37
46	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. <i>Energies</i> , 2019, 12, 3557.	1.6	37
47	Optimization of Reducing Sugar Production from <i>Manihot glaziovii</i> Starch Using Response Surface Methodology. <i>Energies</i> , 2017, 10, 35.	1.6	35
48	Review on fuel economy standard and label for vehicle in selected ASEAN countries. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1683-1695.	8.2	30
49	Lipid Extraction Maximization and Enzymatic Synthesis of Biodiesel from Microalgae. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6103.	1.3	30
50	Physicochemical Properties of Biodiesel Synthesised from Grape Seed, Philippine Tung, Kesambi, and Palm Oils. <i>Energies</i> , 2020, 13, 1319.	1.6	27
51	Prediction of engine performance and emissions with <i>Manihot glaziovii</i> bioethanol ~ Gasoline blended using extreme learning machine. <i>Fuel</i> , 2017, 210, 914-921.	3.4	26
52	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.	1.7	26
53	Current Progress of <i>Jatropha Curcas</i> Commoditisation as Biodiesel Feedstock: A Comprehensive Review. <i>Frontiers in Energy Research</i> , 2022, 9, .	1.2	24
54	Experimental Investigation, Techno-Economic Analysis and Environmental Impact of Bioethanol Production from Banana Stem. <i>Energies</i> , 2019, 12, 3947.	1.6	22

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55	Optimization of Cerbera manghas Biodiesel Production Using Artificial Neural Networks Integrated with Ant Colony Optimization. <i>Energies</i> , 2019, 12, 3811.	1.6	22
56	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.	1.3	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. <i>Energy Reports</i> , 2022, 8, 1578-1590.	2.5	20
58	The Performance and Exhaust Emissions of a Diesel Engine Fuelled with Calophyllum inophyllum Palm Biodiesel. <i>Processes</i> , 2019, 7, 597.	1.3	17
59	Investigation of Biodiesel Production from Cerbera Manghas Biofuel Sources. <i>Energy Procedia</i> , 2014, 61, 436-439.	1.8	16
60	Optimisation of biodiesel production from mixed <i>Sterculia foetida</i> and rice bran oil. <i>International Journal of Ambient Energy</i> , 2022, 43, 4380-4390.	1.4	15
61	Production Process and Optimization of Solid Bioethanol from Empty Fruit Bunches of Palm Oil Using Response Surface Methodology. <i>Processes</i> , 2019, 7, 715.	1.3	14
62	Experimental Study on the Performance of an SI Engine Fueled by Waste Plastic Pyrolysis Oil Gasoline Blends. <i>Energies</i> , 2020, 13, 4196.	1.6	14
63	Biodiesel Production from Reutealis trisperma Oil Using Conventional and Ultrasonication through Esterification and Transesterification. <i>Sustainability</i> , 2021, 13, 3350.	1.6	14
64	The Effect of Multi-Walled Carbon Nanotubes-Additive in Physicochemical Property of Rice Brand Methyl Ester: Optimization Analysis. <i>Energies</i> , 2019, 12, 3291.	1.6	12
65	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.	8.2	11
66	Modelling and prediction approach for engine performance and exhaust emission based on artificial intelligence of <i>sterculia foetida</i> biodiesel. <i>Energy Reports</i> , 2022, 8, 8333-8345.	2.5	10
67	Properties and corrosion behaviors of mild steel in biodiesel-diesel blends. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 3887-3899.	1.2	9
68	An Ultrasound Assisted Transesterification to Optimize Biodiesel Production from Rice Bran Oil. <i>International Journal of Technology</i> , 2020, 11, 225.	0.4	7
69	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.	8.2	6
70	The potential biodiesel production from <i>Cerbera odollam</i> oil (Bintaro) in Aceh. <i>MATEC Web of Conferences</i> , 2018, 159, 01049.	0.1	5
71	Production of biodiesel from <i>Jatropha curcas</i> mixed with waste cooking oil assisted by ultrasound. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 476, 012082.	0.2	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.	0.2	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, .	1.2	0