Arridina Susan Silitonga

List of Publications by Year in Descending Order

72 papers	6,125 citations	37 h-index	78 g-index
78 ext. papers	7,163 ext. citations	6.6 avg, IF	6.14 L-index

#	Paper	IF	Citations
72	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	4.6	0
71	Biodiesel Production from Reutealis trisperma Oil Using Conventional and Ultrasonication through Esterification and Transesterification. *Sustainability*, **2021**, 13, 3350	3.6	5
70	The effect of ultrasound duty cycle in biodiesel production from Ceiba pentandra. *IOP Conference Series: Earth and Environmental Science*, **2021**, 753, 012031	0.3	0
69	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. *Energies*, **2021**, 14, 3732	3.1	7
68	Recent advances in biodiesel production from agricultural products and microalgae using ionic liquids: Opportunities and challenges. *Energy Conversion and Management*, **2021**, 228, 113647	10.6	53
67	Optimization of ultrasound-assisted oil extraction from Canarium odontophyllum kernel as a novel biodiesel feedstock. *Journal of Cleaner Production*, **2021**, 288, 125563	10.3	26
66	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	2.5	11
65	Prospect of using rice straw for power generation: a review. *Environmental Science and Pollution Research*, **2020**, 27, 25956-25969	5.1	22
64	State of the Art of Catalysts for Biodiesel Production. *Frontiers in Energy Research*, **2020**, 8,	3.8	98
63	Physicochemical Properties of Biodiesel Synthesised from Grape Seed, Philippine Tung, Kesambi, and Palm Oils. *Energies*, **2020**, 13, 1319	3.1	20
62	An Ultrasound Assisted Transesterification to Optimize Biodiesel Production from Rice Bran Oil **2020**, 11, 225		4
61	Patent landscape review on biodiesel production: Technology updates. *Renewable and Sustainable Energy Reviews*, **2020**, 118, 109526	16.2	200
60	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	4
59	A Mini Review on the Cold Flow Properties of Biodiesel and its Blends. *Frontiers in Energy Research*, **2020**, 8,	3.8	24
58	Lipid Extraction Maximization and Enzymatic Synthesis of Biodiesel from Microalgae. *Applied Sciences (Switzerland)*, **2020**, 10, 6103	2.6	14
57	Experimental Study on the Performance of an SI Engine Fueled by Waste Plastic Pyrolysis Oil Gasoline Blends. *Energies*, **2020**, 13, 4196	3.1	4
56	Feasibility of microalgae as feedstock for alternative fuel in Malaysia: A review. *Energy Strategy Reviews*, **2020**, 32, 100536	9.8	28

55	Biodiesel synthesis from Ceiba pentandra oil by microwave irradiation-assisted transesterification: ELM modeling and optimization. *Renewable Energy*, **2020**, 146, 1278-1291	8.1	133
54	The Performance and Exhaust Emissions of a Diesel Engine Fuelled with Calophyllum inophyllum Palm Biodiesel. *Processes*, **2019**, 7, 597	2.9	14
53	Properties and corrosion behaviors of mild steel in biodiesel-diesel blends. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2019**, 1-13	1.6	3
52	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. *Energies*, **2019**, 12, 3167	3.1	108
51	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. *Energies*, **2019**, 12, 3557	3.1	23
50	The Effect of Multi-Walled Carbon Nanotubes-Additive in Physicochemical Property of Rice Brand Methyl Ester: Optimization Analysis. *Energies*, **2019**, 12, 3291	3.1	11
49	Palm oil and its wastes as bioenergy sources: a comprehensive review. *Environmental Science and Pollution Research*, **2019**, 26, 14849-14866	5.1	56
48	Biodiesel production from Calophyllum inophyllum-Ceiba pentandra oil mixture: Optimization and characterization. *Journal of Cleaner Production*, **2019**, 219, 183-198	10.3	140
47	Experimental Investigation, Techno-Economic Analysis and Environmental Impact of Bioethanol Production from Banana Stem. *Energies*, **2019**, 12, 3947	3.1	16
46	Techno-Economic Analysis and Physicochemical Properties of Ceiba pentandra as Second-Generation Biodiesel Based on ASTM D6751 and EN 14214. *Processes*, **2019**, 7, 636	2.9	11
45	Optimization of Cerbera manghas Biodiesel Production Using Artificial Neural Networks Integrated with Ant Colony Optimization. *Energies*, **2019**, 12, 3811	3.1	11
44	Potential of Rice Industry Biomass as a Renewable Energy Source. *Energies*, **2019**, 12, 4116	3.1	24
43	Production Process and Optimization of Solid Bioethanol from Empty Fruit Bunches of Palm Oil Using Response Surface Methodology. *Processes*, **2019**, 7, 715	2.9	11
42	Intensification of Reutealis trisperma biodiesel production using infrared radiation: Simulation, optimisation and validation. *Renewable Energy*, **2019**, 133, 520-527	8.1	75
41	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	10.6	157
40	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	5.1	92
39	Corrosion behaviours of mild steel in biodiesel-diesel fuel blend **2018**,		1
38	The potential biodiesel production from Cerbera odollam oil (Bintaro) in Aceh. *MATEC Web of Conferences*, **2018**, 159, 01049	0.3	3

37	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	8.6	42
36	Evaluation of the engine performance and exhaust emissions of biodiesel-bioethanol-diesel blends using kernel-based extreme learning machine. *Energy*, **2018**, 159, 1075-1087	7.9	161
35	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	1.6	29
34	Biodiesel production from Calophyllum inophyllum–palm mixed oil. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2017**, 39, 1283-1289	1.6	46
33	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	7.9	69
32	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	10.3	75
31	A comparative study of ultrasound and infrared transesterification of Sterculia foetida oil for biodiesel production. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2017**, 39, 1339-1346	1.6	45
30	Optimization of bioethanol production from sorghum grains using artificial neural networks integrated with ant colony. *Industrial Crops and Products*, **2017**, 97, 146-155	5.9	46
29	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	5.1	32
28	Prediction of engine performance and emissions with Manihot glaziovii bioethanol–Gasoline blended using extreme learning machine. *Fuel*, **2017**, 210, 914-921	7.1	16
27	A comparative study of biodiesel production methods for Reutealis trisperma biodiesel. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2017**, 39, 2006-2014	1.6	55
26	Optimization of Reducing Sugar Production from Manihot glaziovii Starch Using Response Surface Methodology. *Energies*, **2017**, 10, 35	3.1	29
25	A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine. *RSC Advances*, **2016**, 6, 14964-14992	3.7	56
24	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	5.9	72
23	Optimization of biodiesel production process for mixed Jatropha curcas–Ceiba pentandra biodiesel using response surface methodology. *Energy Conversion and Management*, **2016**, 115, 178-190	10.6	213
22	Pilot-scale production and the physicochemical properties of palm and Calophyllum inophyllum biodiesels and their blends. *Journal of Cleaner Production*, **2016**, 126, 654-666	10.3	46
21	An overview of engine durability and compatibility using biodiesel–bioethanol–diesel blends in compression-ignition engines. *Energy Conversion and Management*, **2016**, 128, 66-81	10.6	70
20	Schleichera oleosa L oil as feedstock for biodiesel production. *Fuel*, **2015**, 156, 63-70	7.1	53

19	Engine performance and emissions using Jatropha curcas, Ceiba pentandra and Calophyllum inophyllum biodiesel in a CI diesel engine. *Energy*, **2014**, 69, 427-445	7.9	213
18	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	10.6	218
17	Investigation of Biodiesel Production from Cerbera Manghas Biofuel Sources. *Energy Procedia*, **2014**, 61, 436-439	2.3	12
16	Biodiesel Conversion from High FFA Crude Jatropha Curcas, Calophyllum Inophyllum and Ceiba Pentandra Oil. *Energy Procedia*, **2014**, 61, 480-483	2.3	48
15	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	16.2	63
14	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	10.6	227
13	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	16.2	770
12	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	10.6	120
11	Overview properties of biodiesel diesel blends from edible and non-edible feedstock. *Renewable and Sustainable Energy Reviews*, **2013**, 22, 346-360	16.2	230
10	Characterization and production of Ceiba pentandra biodiesel and its blends. *Fuel*, **2013**, 108, 855-858	7.1	76
9	Production of biodiesel from Sterculia foetida and its process optimization. *Fuel*, **2013**, 111, 478-484	7.1	53
8	Review on fuel economy standard and label for vehicle in selected ASEAN countries. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 1683-1695	16.2	26
7	Cost benefit analysis and environmental impact of fuel economy standards for passenger cars in Indonesia. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 3547-3558	16.2	6
6	A comprehensive review on biodiesel as an alternative energy resource and its characteristics. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 2070-2093	16.2	1126
5	Techno-economic analysis and environmental impact of fuel economy labels for passenger cars in Indonesia. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 5212-5217	16.2	11
4	A review on prospect of Jatropha curcas for biodiesel in Indonesia. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 3733-3756	16.2	221
3	A review on global fuel economy standards, labels and technologies in the transportation sector. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 4586-4610	16.2	132
2	Energy Economical and Environmental Analysis of Industrial Boilers Using VSD. *Applied Mechanics and Materials*, **2011**, 110-116, 3223-3233	0.3	

1 Optimisation of biodiesel production from mixed Sterculia foetida and rice bran oil. *International Journal of Ambient Energy*,1-11 2 6