

Teuku Meurah Indra Mahlia

List of Publications by Year
in descending order

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341
papers

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citations

6613

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345
all docs

345
docs citations

345
times ranked

18259
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	A review of available methods and development on energy storage; technology update. Renewable and Sustainable Energy Reviews, 2014, 33, 532-545.	16.4	706
4	A review on insulation materials for energy conservation in buildings. Renewable and Sustainable Energy Reviews, 2017, 73, 1352-1365.	16.4	485
5	Second generation bioethanol production: A critical review. Renewable and Sustainable Energy Reviews, 2016, 66, 631-653.	16.4	481
6	Impact of COVID-19 on the social, economic, environmental and energy domains: Lessons learnt from a global pandemic. Sustainable Production and Consumption, 2021, 26, 343-359.	11.0	370
7	Comparison of palm oil, Jatropha curcas and Calophyllum inophyllum for biodiesel: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 3501-3515.	16.4	353
8	Recent developments in physical, biological, chemical, and hybrid treatment techniques for removing emerging contaminants from wastewater. Journal of Hazardous Materials, 2021, 416, 125912.	12.4	300
9	Patent landscape review on biodiesel production: Technology updates. Renewable and Sustainable Energy Reviews, 2020, 118, 109526.	16.4	298
10	Sustainability of direct biodiesel synthesis from microalgae biomass: A critical review. Renewable and Sustainable Energy Reviews, 2019, 107, 59-74.	16.4	283
11	Optimization of biodiesel production process for mixed Jatropha curcas and Ceiba pentandra biodiesel using response surface methodology. Energy Conversion and Management, 2016, 115, 178-190.	9.2	281
12	Overview properties of biodiesel diesel blends from edible and non-edible feedstock. Renewable and Sustainable Energy Reviews, 2013, 22, 346-360.	16.4	276
13	Thermal properties of beeswax/graphene phase change material as energy storage for building applications. Applied Thermal Engineering, 2017, 112, 273-280.	6.0	274
14	A review on energy scenario and sustainable energy in Malaysia. Renewable and Sustainable Energy Reviews, 2011, 15, 639-647.	16.4	272
15	State of art review on conventional and advanced pyrolysis of macroalgae and microalgae for biochar, bio-oil and bio-syngas production. Energy Conversion and Management, 2020, 210, 112707.	9.2	272
16	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
17	Characterization of PV panel and global optimization of its model parameters using genetic algorithm. Energy Conversion and Management, 2013, 73, 10-25.	9.2	268
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.	9.2	267

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19	A review on prospect of <i>Jatropha curcas</i> for biodiesel in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3733-3756.	16.4	266
20	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.	8.8	252
21	Techno-economic analysis of an optimized photovoltaic and diesel generator hybrid power system for remote houses in a tropical climate. <i>Energy Conversion and Management</i> , 2013, 69, 163-173.	9.2	251
22	Battery energy-storage system: A review of technologies, optimization objectives, constraints, approaches, and outstanding issues. <i>Journal of Energy Storage</i> , 2021, 42, 103023.	8.1	237
23	Preparation and characterization of palmitic acid/graphene nanoplatelets composite with remarkable thermal conductivity as a novel shape-stabilized phase change material. <i>Applied Thermal Engineering</i> , 2013, 61, 633-640.	6.0	222
24	Grid-connected renewable energy sources: Review of the recent integration requirements and control methods. <i>Journal of Cleaner Production</i> , 2020, 253, 119831.	9.3	218
25	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.	8.8	217
26	A comprehensive review on anaerobic digestion of organic fraction of municipal solid waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110637.	16.4	217
27	A review on energy scenario and sustainable energy in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2316-2328.	16.4	216
28	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	214
29	An experimental investigation of CNG as an alternative fuel for a retrofitted gasoline vehicle. <i>Fuel</i> , 2006, 85, 717-724.	6.4	205
30	Synthesis, characterization and thermal properties of nanoencapsulated phase change materials via sol-gel method. <i>Energy</i> , 2013, 61, 664-672.	8.8	204
31	An Overview of Recent Developments in Biomass Pyrolysis Technologies. <i>Energies</i> , 2018, 11, 3115.	3.1	200
32	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019, 12, 3167.	3.1	197
33	Current energy usage and sustainable energy in Malaysia: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4370-4377.	16.4	195
34	Advances in CO ₂ utilization technology: A patent landscape review. <i>Journal of CO₂ Utilization</i> , 2018, 26, 323-335.	6.8	194
35	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. <i>Fuel</i> , 2022, 307, 121782.	6.4	190
36	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.	8.9	187

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37	A Review of Internet of Energy Based Building Energy Management Systems: Issues and Recommendations. IEEE Access, 2018, 6, 38997-39014.	4.2	177
38	Prospects of dedicated biodiesel engine vehicles in Malaysia and Indonesia. Renewable and Sustainable Energy Reviews, 2011, 15, 220-235.	16.4	174
39	Biodiesel production from Calophyllum inophyllum-Ceiba pentandra oil mixture: Optimization and characterization. Journal of Cleaner Production, 2019, 219, 183-198.	9.3	174
40	Techno-economic analysis of a wind-solar hybrid renewable energy system with rainwater collection feature for urban high-rise application. Applied Energy, 2011, 88, 4067-4077.	10.1	170
41	A comparative evaluation of physical and chemical properties of biodiesel synthesized from edible and non-edible oils and study on the effect of biodiesel blending. Energy, 2013, 58, 296-304.	8.8	164
42	Correlation between thermal conductivity and the thickness of selected insulation materials for building wall. Energy and Buildings, 2007, 39, 182-187.	6.7	161
43	Potential of geothermal energy for electricity generation in Indonesia: A review. Renewable and Sustainable Energy Reviews, 2016, 53, 733-740.	16.4	160
44	A review on energy pattern and policy for transportation sector in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 532-542.	16.4	153
45	Intelligent algorithms and control strategies for battery management system in electric vehicles: Progress, challenges and future outlook. Journal of Cleaner Production, 2021, 292, 126044.	9.3	151
46	A review on electricity generation based on biomass residue in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 5879-5889.	16.4	149
47	Curbing global warming with phase change materials for energy storage. Renewable and Sustainable Energy Reviews, 2013, 18, 23-30.	16.4	149
48	Genetic algorithm based optimization on modeling and design of hybrid renewable energy systems. Energy Conversion and Management, 2014, 85, 120-130.	9.2	148
49	Latest development in microalgae-biofuel production with nano-additives. Biotechnology for Biofuels, 2019, 12, 125.	6.2	147
50	An alternative energy source from palm wastes industry for Malaysia and Indonesia. Energy Conversion and Management, 2001, 42, 2109-2118.	9.2	140
51	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
52	Toward Enhanced State of Charge Estimation of Lithium-ion Batteries Using Optimized Machine Learning Techniques. Scientific Reports, 2020, 10, 4687.	3.3	137
53	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
54	Preparation of nitrogen-doped graphene/palmitic acid shape stabilized composite phase change material with remarkable thermal properties for thermal energy storage. Applied Energy, 2014, 135, 339-349.	10.1	134

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55	Preparation and properties of highly conductive palmitic acid/graphene oxide composites as thermal energy storage materials. <i>Energy</i> , 2013, 58, 628-634.	8.8	130
56	Optimization of HVAC system energy consumption in a building using artificial neural network and multi-objective genetic algorithm. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 35, 48-57.	2.7	125
57	Investigation of physical and chemical properties of potential edible and non-edible feedstocks for biodiesel production, a comparative analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 21, 749-755.	16.4	123
58	One-Step Preparation of Form-Stable Phase Change Material through Self-Assembly of Fatty Acid and Graphene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22787-22796.	3.1	118
59	Life cycle cost and sensitivity analysis of palm biodiesel production. <i>Fuel</i> , 2012, 98, 131-139.	6.4	117
60	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.	9.2	114
61	Preparation of beeswax/multi-walled carbon nanotubes as novel shape-stable nanocomposite phase-change material for thermal energy storage. <i>Journal of Energy Storage</i> , 2019, 21, 32-39.	8.1	109
62	Second generation bioethanol potential from selected Malaysia's biodiversity biomasses: A review. <i>Waste Management</i> , 2016, 47, 46-61.	7.4	107
63	Recent progress in integrated fixed-film activated sludge process for wastewater treatment: A review. <i>Journal of Environmental Management</i> , 2020, 268, 110718.	7.8	107
64	Life cycle assessment of rice straw-based power generation in Malaysia. <i>Energy</i> , 2014, 70, 401-410.	8.8	105
65	Design of an optimized photovoltaic and microturbine hybrid power system for a remote small community: Case study of Palestine. <i>Energy Conversion and Management</i> , 2013, 75, 271-281.	9.2	103
66	Cost benefits analysis and emission reductions of optimum thickness and air gaps for selected insulation materials for building walls in Maldives. <i>Energy</i> , 2010, 35, 2242-2250.	8.8	97
67	Life cycle cost analysis and payback period of lighting retrofit at the University of Malaya. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1125-1132.	16.4	97
68	Emissions from electricity generation in Malaysia. <i>Renewable Energy</i> , 2002, 27, 293-300.	8.9	95
69	Performance of beeswax phase change material (PCM) and heat pipe as passive battery cooling system for electric vehicles. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100655.	5.7	95
70	Intensification of Reutealis trisperma biodiesel production using infrared radiation: Simulation, optimisation and validation. <i>Renewable Energy</i> , 2019, 133, 520-527.	8.9	94
71	Effective utilization of excess energy in standalone hybrid renewable energy systems for improving comfort ability and reducing cost of energy: A review and analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 726-734.	16.4	93
72	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. <i>Environmental Technology and Innovation</i> , 2022, 25, 102114.	6.1	93

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73	Life cycle assessment, energy balance and sensitivity analysis of bioethanol production from microalgae in a tropical country. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109371.	16.4	92
74	Potential energy savings by radiative cooling system for a building in tropical climate. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 32, 642-650.	16.4	90
75	Characterization and production of Ceiba pentandra biodiesel and its blends. <i>Fuel</i> , 2013, 108, 855-858.	6.4	89
76	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.	8.8	89
77	A review on emissions and mitigation strategies for road transport in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3516-3522.	16.4	87
78	Effect of nanocatalysts on the transesterification reaction of first, second and third generation biodiesel sources- A mini-review. <i>Chemosphere</i> , 2021, 270, 128642.	8.2	87
79	Palm oil and its wastes as bioenergy sources: a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 14849-14866.	5.3	86
80	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.	5.2	84
81	Accelerated Thermal Cycling Test of Microencapsulated Paraffin Wax/Polyaniline Made by Simple Preparation Method for Solar Thermal Energy Storage. <i>Materials</i> , 2013, 6, 1608-1620.	2.9	83
82	Palmitic acid/polypyrrole composites as form-stable phase change materials for thermal energy storage. <i>Energy Conversion and Management</i> , 2014, 80, 491-497.	9.2	83
83	A review on energy scenario and sustainable energy in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4652-4658.	16.4	82
84	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.	16.4	81
85	Source, distribution and emerging threat of micro- and nanoplastics to marine organism and human health: Socio-economic impact and management strategies. <i>Environmental Research</i> , 2021, 195, 110857.	7.5	79
86	Performance and emission analysis of hydrogen fueled compression ignition engine with variable water injection timing. <i>Energy</i> , 2012, 43, 416-426.	8.8	78
87	Effect of carbon nanospheres on shape stabilization and thermal behavior of phase change materials for thermal energy storage. <i>Energy Conversion and Management</i> , 2014, 88, 206-213.	9.2	78
88	Chillers energy consumption, energy savings and emission analysis in an institutional buildings. <i>Energy</i> , 2011, 36, 5233-5238.	8.8	77
89	Modeling of shell and tube heat recovery exchanger operated with nanofluid based coolants. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 808-816.	4.8	77
90	Facile synthesis and thermal performances of stearic acid/titania core/shell nanocapsules by sol-gel method. <i>Energy</i> , 2015, 85, 635-644.	8.8	76

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91	Elemental, morphological and thermal analysis of mixed microalgae species from drain water. Renewable Energy, 2019, 131, 617-624.	8.9	76
92	Synthesis and characterization of rice husk biochar via hydrothermal carbonization for wastewater treatment and biofuel production. Scientific Reports, 2020, 10, 18851.	3.3	76
93	Preparation and thermal properties of form-stable phase change materials composed of palmitic acid/polypyrrole/graphene nanoplatelets. Energy and Buildings, 2015, 99, 189-195.	6.7	73
94	Waste collection route optimisation model for linking cost saving and emission reduction to achieve sustainable development goals. Sustainable Cities and Society, 2020, 62, 102393.	10.4	73
95	A comparative study of biodiesel production methods for <i>Reutealis trisperma</i> biodiesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 2006-2014.	2.3	71
96	Biogas upgrading, economy and utilization: a review. Environmental Chemistry Letters, 2021, 19, 4137-4164.	16.2	71
97	A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine. RSC Advances, 2016, 6, 14964-14992.	3.6	70
98	Microalgae-bacteria consortium for wastewater treatment and biomass production. Science of the Total Environment, 2022, 838, 155871.	8.0	70
99	A review on test procedure, energy efficiency standards and energy labels for room air conditioners and refrigerator-freezers. Renewable and Sustainable Energy Reviews, 2010, 14, 1888-1900.	16.4	69
100	Progress in physicochemical parameters of microalgae cultivation for biofuel production. Critical Reviews in Biotechnology, 2019, 39, 835-859.	9.0	69
101	Theory of energy efficiency standards and labels. Energy Conversion and Management, 2002, 43, 743-761.	9.2	68
102	A Review of Bioethanol Production from Plant-based Waste Biomass by Yeast Fermentation. International Journal of Technology, 2017, 8, 5.	0.8	68
103	Biodiesel Conversion from High FFA Crude <i>Jatropha Curcas</i> , <i>Calophyllum Inophyllum</i> and <i>Ceiba Pentandra</i> Oil. Energy Procedia, 2014, 61, 480-483.	1.8	64
104	Techno-economics and Sensitivity Analysis of Microalgae as Commercial Feedstock for Bioethanol Production. Environmental Progress and Sustainable Energy, 2019, 38, 13157.	2.3	64
105	Investigation of correlation between chemical composition and properties of biodiesel using principal component analysis (PCA) and artificial neural network (ANN). Renewable Energy, 2021, 168, 632-646.	8.9	64
106	Cost-benefit analysis and emission reduction of lighting retrofits in residential sector. Energy and Buildings, 2005, 37, 573-578.	6.7	63
107	Scheduling controller for microgrids energy management system using optimization algorithm in achieving cost saving and emission reduction. Applied Energy, 2021, 292, 116883.	10.1	63
108	Life cycle cost analysis of fuel cell based cogeneration system for residential application in Malaysia. Renewable and Sustainable Energy Reviews, 2011, 15, 416-426.	16.4	62

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109	Impact of renewable energy utilization and artificial intelligence in achieving sustainable development goals. <i>Energy Reports</i> , 2021, 7, 5359-5373.	5.1	62
110	Production of biodiesel from <i>Sterculia foetida</i> and its process optimization. <i>Fuel</i> , 2013, 111, 478-484.	6.4	61
111	<i>Schleichera oleosa</i> L oil as feedstock for biodiesel production. <i>Fuel</i> , 2015, 156, 63-70.	6.4	61
112	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.	9.3	59
113	Life cycle assessment of rice straw co-firing with coal power generation in Malaysia. <i>Energy</i> , 2013, 57, 284-294.	8.8	58
114	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.	9.3	58
115	Accelerated thermal cycle and chemical stability testing of polyethylene glycol (PEG) 6000 for solar thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 235-239.	6.2	58
116	Thermal characteristic reliability of fatty acid binary mixtures as phase change materials (PCMs) for thermal energy storage applications. <i>Applied Thermal Engineering</i> , 2015, 80, 127-131.	6.0	57
117	Prospect of using rice straw for power generation: a review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 25956-25969.	5.3	57
118	Recent Progress in Low-Cost Catalysts for Pyrolysis of Plastic Waste to Fuels. <i>Catalysts</i> , 2021, 11, 837.	3.5	57
119	Deep learning approach towards accurate state of charge estimation for lithium-ion batteries using self-supervised transformer model. <i>Scientific Reports</i> , 2021, 11, 19541.	3.3	56
120	Numerical study for enhancement of solidification of phase change materials using trapezoidal cavity. <i>Powder Technology</i> , 2014, 268, 38-47.	4.2	55
121	Energetic, economic and environmental benefits of utilizing the ice thermal storage systems for office building applications. <i>Energy and Buildings</i> , 2012, 50, 347-354.	6.7	54
122	Modeling and simulation of the energy use in an occupied residential building in cold climate. <i>Applied Energy</i> , 2012, 91, 432-438.	10.1	54
123	Potential thermochemical conversion of bioenergy from <i>Acacia</i> species in Brunei Darussalam: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3060-3076.	16.4	54
124	Entropy generation analysis of nanofluid flow in a circular tube subjected to constant wall temperature. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1169-1175.	5.6	53
125	Fabrication and Performances of Microencapsulated Palmitic Acid with Enhanced Thermal Properties. <i>Energy & Fuels</i> , 2015, 29, 1010-1018.	5.1	52
126	Cost-benefit analysis of implementing minimum energy efficiency standards for household refrigerator-freezers in Malaysia. <i>Energy Policy</i> , 2004, 32, 1819-1824.	8.8	51

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127	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.	2.3	51
128	Pyrolysis of solid waste residues from Lemon Myrtle essential oils extraction for bio-oil production. <i>Bioresource Technology</i> , 2020, 318, 123913.	9.6	51
129	Glycerol to Solketal for Fuel Additive: Recent Progress in Heterogeneous Catalysts. <i>Energies</i> , 2019, 12, 2872.	3.1	50
130	Membrane Surface Patterning as a Fouling Mitigation Strategy in Liquid Filtration: A Review. <i>Polymers</i> , 2019, 11, 1687.	4.5	50
131	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. <i>Energies</i> , 2021, 14, 3732.	3.1	50
132	A review on the pattern of electricity generation and emission in Iran from 1967 to 2008. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1814-1829.	16.4	49
133	A review on the pattern of electricity generation and emission in Malaysia from 1976 to 2008. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2629-2642.	16.4	49
134	Fuel consumption and emission prediction by Iranian power plants until 2025. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1575-1592.	16.4	48
135	Phase change material: Optimizing the thermal properties and thermal conductivity of myristic acid/palmitic acid eutectic mixture with acid-based surfactants. <i>Applied Thermal Engineering</i> , 2013, 60, 261-265.	6.0	48
136	Feasibility of microalgae as feedstock for alternative fuel in Malaysia: A review. <i>Energy Strategy Reviews</i> , 2020, 32, 100536.	7.3	48
137	Strategies to improve membrane performance in wastewater treatment. <i>Chemosphere</i> , 2022, 306, 135527.	8.2	45
138	Thermal analysis of cylinder head carbon deposits from single cylinder diesel engine fueled by palm oil-diesel fuel emulsions. <i>Applied Energy</i> , 2009, 86, 2107-2113.	10.1	43
139	Current utilization of microturbines as a part of a hybrid system in distributed generation technology. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 21, 142-152.	16.4	43
140	Sodium laurate enhancements the thermal properties and thermal conductivity of eutectic fatty acid as phase change material (PCM). <i>Solar Energy</i> , 2014, 102, 333-337.	6.1	43
141	A review on fuel economy standard for motor vehicles with the implementation possibilities in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 3092-3099.	16.4	42
142	Thermal and melting heat transfer characteristics in a latent heat storage system using mikro. <i>Applied Thermal Engineering</i> , 2005, 25, 1503-1515.	6.0	41
143	Cost efficiency analysis and emission reduction by implementation of energy efficiency standards for electric motors. <i>Journal of Cleaner Production</i> , 2010, 18, 365-374.	9.3	40
144	Second law analysis for optimal thermal design of radial fin geometry by convection. <i>Applied Thermal Engineering</i> , 2007, 27, 1363-1370.	6.0	39

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145	Analysis and evaluation of various aspects of solar radiation in the Palestinian territories. <i>Energy Conversion and Management</i> , 2013, 73, 57-68.	9.2	39
146	Organosulfonic acid functionalized zeolite ZSM-5 as temperature tolerant proton conducting material. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12513-12521.	7.1	38
147	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019, 12, 4116.	3.1	38
148	Effect of membrane properties on tilted panel performance of microalgae biomass filtration for biofuel feedstock. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109666.	16.4	38
149	The cost benefit analysis and potential emission reduction evaluation of applying wall insulation for buildings in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4708-4718.	16.4	37
150	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.	2.3	37
151	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. <i>Energies</i> , 2019, 12, 3557.	3.1	37
152	Life cycle assessment (LCA) of electricity generation from rice husk in Malaysia. <i>Energy Procedia</i> , 2012, 14, 499-504.	1.8	36
153	Energy, exergy, environmental and economic analysis of industrial fired heaters based on heat recovery and preheating techniques. <i>Energy Conversion and Management</i> , 2013, 71, 51-61.	9.2	36
154	Experimental analysis of using beeswax as phase change materials for limiting temperature rise in building integrated photovoltaics. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 223-227.	5.7	36
155	Techno-Economic Analysis and Environmental Impact of Electric Vehicle. <i>IEEE Access</i> , 2019, 7, 98565-98578.	4.2	36
156	Optimization of Reducing Sugar Production from <i>Manihot glaziovii</i> Starch Using Response Surface Methodology. <i>Energies</i> , 2017, 10, 35.	3.1	35
157	Pyrolysis of waste oils for the production of biofuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127396.	12.4	35
158	Fuel Properties of <i>Croton megalocarpus</i> , <i>Calophyllum inophyllum</i> , and <i>Cocos nucifera</i> (coconut) Methyl Esters and their Performance in a Multicylinder Diesel Engine. <i>Energy Technology</i> , 2013, 1, 685-694.	3.8	34
159	Current and future energy and exergy efficiencies in the Iran's transportation sector. <i>Energy Conversion and Management</i> , 2013, 74, 24-34.	9.2	34
160	Cost-Benefit Analysis and Emission Reduction of Energy Efficient Lighting at the Universiti Tenaga Nasional. <i>Scientific World Journal</i> , The, 2014, 2014, 1-11.	2.1	34
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