

Teuku Meurah Indra Mahlia

List of Publications by Year in descending order

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340
papers

24,216
citations

7672

79
h-index

11282

141
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all docs

345
docs citations

345
times ranked

20432
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	A review of available methods and development on energy storage; technology update. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 33, 532-545.	8.2	706
4	A review on insulation materials for energy conservation in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 1352-1365.	8.2	485
5	Second generation bioethanol production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 66, 631-653.	8.2	481
6	Impact of COVID-19 on the social, economic, environmental and energy domains: Lessons learnt from a global pandemic. <i>Sustainable Production and Consumption</i> , 2021, 26, 343-359.	5.7	370
7	Comparison of palm oil, <i>Jatropha curcas</i> and <i>Calophyllum inophyllum</i> for biodiesel: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3501-3515.	8.2	353
8	Recent developments in physical, biological, chemical, and hybrid treatment techniques for removing emerging contaminants from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 416, 125912.	6.5	300
9	Patent landscape review on biodiesel production: Technology updates. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 118, 109526.	8.2	298
10	Sustainability of direct biodiesel synthesis from microalgae biomass: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 59-74.	8.2	283
11	Optimization of biodiesel production process for mixed <i>Jatropha curcas</i> and <i>Ceiba pentandra</i> biodiesel using response surface methodology. <i>Energy Conversion and Management</i> , 2016, 115, 178-190.	4.4	281
12	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
13	Thermal properties of beeswax/graphene phase change material as energy storage for building applications. <i>Applied Thermal Engineering</i> , 2017, 112, 273-280.	3.0	274
14	A review on energy scenario and sustainable energy in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 639-647.	8.2	272
15	State of art review on conventional and advanced pyrolysis of macroalgae and microalgae for biochar, bio-oil and bio-syngas production. <i>Energy Conversion and Management</i> , 2020, 210, 112707.	4.4	272
16	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
17	Characterization of PV panel and global optimization of its model parameters using genetic algorithm. <i>Energy Conversion and Management</i> , 2013, 73, 10-25.	4.4	268
18	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

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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.	8.2	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.	4.5	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.	4.4	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.	3.9	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.	3.0	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.	4.6	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.	4.5	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.	8.2	217
27	A review on energy scenario and sustainable energy in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2316-2328.	8.2	216
28	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	214
29	An experimental investigation of CNG as an alternative fuel for a retrofitted gasoline vehicle. <i>Fuel</i> , 2006, 85, 717-724.	3.4	205
30	Synthesis, characterization and thermal properties of nanoencapsulated phase change materials via sol-gel method. <i>Energy</i> , 2013, 61, 664-672.	4.5	204
31	An Overview of Recent Developments in Biomass Pyrolysis Technologies. <i>Energies</i> , 2018, 11, 3115.	1.6	200
32	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019, 12, 3167.	1.6	197
33	Current energy usage and sustainable energy in Malaysia: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4370-4377.	8.2	195
34	Advances in CO ₂ utilization technology: A patent landscape review. <i>Journal of CO₂ Utilization</i> , 2018, 26, 323-335.	3.3	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.	3.4	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.	4.3	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.	2.6	177
38	Prospects of dedicated biodiesel engine vehicles in Malaysia and Indonesia. Renewable and Sustainable Energy Reviews, 2011, 15, 220-235.	8.2	174
39	Biodiesel production from Calophyllum inophyllum-Ceiba pentandra oil mixture: Optimization and characterization. Journal of Cleaner Production, 2019, 219, 183-198.	4.6	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.	5.1	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.	4.5	164
42	Correlation between thermal conductivity and the thickness of selected insulation materials for building wall. Energy and Buildings, 2007, 39, 182-187.	3.1	161
43	Potential of geothermal energy for electricity generation in Indonesia: A review. Renewable and Sustainable Energy Reviews, 2016, 53, 733-740.	8.2	160
44	A review on energy pattern and policy for transportation sector in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 532-542.	8.2	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.	4.6	151
46	A review on electricity generation based on biomass residue in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 5879-5889.	8.2	149
47	Curbing global warming with phase change materials for energy storage. Renewable and Sustainable Energy Reviews, 2013, 18, 23-30.	8.2	149
48	Genetic algorithm based optimization on modeling and design of hybrid renewable energy systems. Energy Conversion and Management, 2014, 85, 120-130.	4.4	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.	4.4	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.	4.4	139
52	Toward Enhanced State of Charge Estimation of Lithium-ion Batteries Using Optimized Machine Learning Techniques. Scientific Reports, 2020, 10, 4687.	1.6	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.	2.7	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.	5.1	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.	4.5	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.	1.7	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.	8.2	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.	1.5	118
59	Life cycle cost and sensitivity analysis of palm biodiesel production. <i>Fuel</i> , 2012, 98, 131-139.	3.4	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.	4.4	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.	3.9	109
62	Second generation bioethanol potential from selected Malaysia's biodiversity biomasses: A review. <i>Waste Management</i> , 2016, 47, 46-61.	3.7	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.	3.8	107
64	Life cycle assessment of rice straw-based power generation in Malaysia. <i>Energy</i> , 2014, 70, 401-410.	4.5	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.	4.4	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.	4.5	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.	8.2	97
68	Emissions from electricity generation in Malaysia. <i>Renewable Energy</i> , 2002, 27, 293-300.	4.3	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.	2.8	95
70	Intensification of Reutealis trisperma biodiesel production using infrared radiation: Simulation, optimisation and validation. <i>Renewable Energy</i> , 2019, 133, 520-527.	4.3	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.	8.2	93
72	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. <i>Environmental Technology and Innovation</i> , 2022, 25, 102114.	3.0	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.	8.2	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.	8.2	90
75	Characterization and production of <i>Ceiba pentandra</i> biodiesel and its blends. <i>Fuel</i> , 2013, 108, 855-858.	3.4	89
76	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
77	A review on emissions and mitigation strategies for road transport in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3516-3522.	8.2	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.	4.2	87
79	Palm oil and its wastes as bioenergy sources: a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 14849-14866.	2.7	86
80	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
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.	1.3	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.	4.4	83
83	A review on energy scenario and sustainable energy in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4652-4658.	8.2	82
84	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
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.	3.7	79
86	Performance and emission analysis of hydrogen fueled compression ignition engine with variable water injection timing. <i>Energy</i> , 2012, 43, 416-426.	4.5	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.	4.4	78
88	Chillers energy consumption, energy savings and emission analysis in an institutional buildings. <i>Energy</i> , 2011, 36, 5233-5238.	4.5	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.	2.5	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.	4.5	76

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91	Elemental, morphological and thermal analysis of mixed microalgae species from drain water. <i>Renewable Energy</i> , 2019, 131, 617-624.	4.3	76
92	Synthesis and characterization of rice husk biochar via hydrothermal carbonization for wastewater treatment and biofuel production. <i>Scientific Reports</i> , 2020, 10, 18851.	1.6	76
93	Preparation and thermal properties of form-stable phase change materials composed of palmitic acid/polypyrrole/graphene nanoplatelets. <i>Energy and Buildings</i> , 2015, 99, 189-195.	3.1	73
94	Waste collection route optimisation model for linking cost saving and emission reduction to achieve sustainable development goals. <i>Sustainable Cities and Society</i> , 2020, 62, 102393.	5.1	73
95	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
96	Biogas upgrading, economy and utilization: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4137-4164.	8.3	71
97	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
98	Microalgae-bacteria consortium for wastewater treatment and biomass production. <i>Science of the Total Environment</i> , 2022, 838, 155871.	3.9	70
99	A review on test procedure, energy efficiency standards and energy labels for room air conditioners and refrigerator-freezers. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1888-1900.	8.2	69
100	Progress in physicochemical parameters of microalgae cultivation for biofuel production. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 835-859.	5.1	69
101	Theory of energy efficiency standards and labels. <i>Energy Conversion and Management</i> , 2002, 43, 743-761.	4.4	68
102	A Review of Bioethanol Production from Plant-based Waste Biomass by Yeast Fermentation. <i>International Journal of Technology</i> , 2017, 8, 5.	0.4	68
103	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
104	Techno-economic and Sensitivity Analysis of Microalgae as Commercial Feedstock for Bioethanol Production. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13157.	1.3	64
105	Investigation of correlation between chemical composition and properties of biodiesel using principal component analysis (PCA) and artificial neural network (ANN). <i>Renewable Energy</i> , 2021, 168, 632-646.	4.3	64
106	Cost-benefit analysis and emission reduction of lighting retrofits in residential sector. <i>Energy and Buildings</i> , 2005, 37, 573-578.	3.1	63
107	Scheduling controller for microgrids energy management system using optimization algorithm in achieving cost saving and emission reduction. <i>Applied Energy</i> , 2021, 292, 116883.	5.1	63
108	Life cycle cost analysis of fuel cell based cogeneration system for residential application in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 416-426.	8.2	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.	2.5	62
110	Production of biodiesel from <i>Sterculia foetida</i> and its process optimization. <i>Fuel</i> , 2013, 111, 478-484.	3.4	61
111	<i>Schleichera oleosa</i> L oil as feedstock for biodiesel production. <i>Fuel</i> , 2015, 156, 63-70.	3.4	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.	4.6	59
113	Life cycle assessment of rice straw co-firing with coal power generation in Malaysia. <i>Energy</i> , 2013, 57, 284-294.	4.5	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.	4.6	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.	3.0	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.	3.0	57
117	Prospect of using rice straw for power generation: a review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 25956-25969.	2.7	57
118	Recent Progress in Low-Cost Catalysts for Pyrolysis of Plastic Waste to Fuels. <i>Catalysts</i> , 2021, 11, 837.	1.6	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.	1.6	56
120	Numerical study for enhancement of solidification of phase change materials using trapezoidal cavity. <i>Powder Technology</i> , 2014, 268, 38-47.	2.1	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.	3.1	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.	5.1	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.	8.2	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.	2.9	53
125	Fabrication and Performances of Microencapsulated Palmitic Acid with Enhanced Thermal Properties. <i>Energy & Fuels</i> , 2015, 29, 1010-1018.	2.5	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.	4.2	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.	1.2	51
128	Pyrolysis of solid waste residues from Lemon Myrtle essential oils extraction for bio-oil production. <i>Bioresource Technology</i> , 2020, 318, 123913.	4.8	51
129	Glycerol to Solketal for Fuel Additive: Recent Progress in Heterogeneous Catalysts. <i>Energies</i> , 2019, 12, 2872.	1.6	50
130	Membrane Surface Patterning as a Fouling Mitigation Strategy in Liquid Filtration: A Review. <i>Polymers</i> , 2019, 11, 1687.	2.0	50
131	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. <i>Energies</i> , 2021, 14, 3732.	1.6	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.	8.2	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.	8.2	49
134	Fuel consumption and emission prediction by Iranian power plants until 2025. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1575-1592.	8.2	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.	3.0	48
136	Feasibility of microalgae as feedstock for alternative fuel in Malaysia: A review. <i>Energy Strategy Reviews</i> , 2020, 32, 100536.	3.3	48
137	Strategies to improve membrane performance in wastewater treatment. <i>Chemosphere</i> , 2022, 306, 135527.	4.2	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.	5.1	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.	8.2	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.	2.9	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.	8.2	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.	3.0	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.	4.6	40
144	Second law analysis for optimal thermal design of radial fin geometry by convection. <i>Applied Thermal Engineering</i> , 2007, 27, 1363-1370.	3.0	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.	4.4	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.	3.8	38
147	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019, 12, 4116.	1.6	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.	8.2	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.	8.2	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.	1.2	37
151	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. <i>Energies</i> , 2019, 12, 3557.	1.6	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.	4.4	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.	2.8	36
155	Techno-Economic Analysis and Environmental Impact of Electric Vehicle. <i>IEEE Access</i> , 2019, 7, 98565-98578.	2.6	36
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