

Teuku Meurah Indra Mahlia

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

327 papers	16,686 citations	69 h-index	118 g-index
344 ext. papers	20,127 ext. citations	7.3 avg, IF	7.35 L-index

#	Paper	IF	Citations
327	A comprehensive review on biodiesel as an alternative energy resource and its characteristics. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2070-2093	16.2	1126
326	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	16.2	770
325	A review of available methods and development on energy storage; technology update. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 532-545	16.2	511
324	Second generation bioethanol production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 66, 631-653	16.2	373
323	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	16.2	301
322	A review on insulation materials for energy conservation in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 73, 1352-1365	16.2	298
321	Overview properties of biodiesel diesel blends from edible and non-edible feedstock. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 22, 346-360	16.2	230
320	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	10.6	227
319	A review on energy scenario and sustainable energy in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 639-647	16.2	223
318	A review on prospect of <i>Jatropha curcas</i> for biodiesel in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3733-3756	16.2	221
317	Characterization of PV panel and global optimization of its model parameters using genetic algorithm. <i>Energy Conversion and Management</i> , 2013 , 73, 10-25	10.6	220
316	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	10.6	218
315	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	10.6	213
314	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	7.9	213
313	Patent landscape review on biodiesel production: Technology updates. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 118, 109526	16.2	200
312	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	10.6	198
311	Thermal properties of beeswax/graphene phase change material as energy storage for building applications. <i>Applied Thermal Engineering</i> , 2017 , 112, 273-280	5.8	197

310	Sustainability of direct biodiesel synthesis from microalgae biomass: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 107, 59-74	16.2	190
309	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	5.8	189
308	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	8.2	178
307	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	7.9	161
306	Synthesis, characterization and thermal properties of nanoencapsulated phase change materials via sol-gel method. <i>Energy</i> , 2013 , 61, 664-672	7.9	160
305	Current energy usage and sustainable energy in Malaysia: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 4370-4377	16.2	159
304	An experimental investigation of CNG as an alternative fuel for a retrofitted gasoline vehicle. <i>Fuel</i> , 2006 , 85, 717-724	7.1	156
303	Prospects of dedicated biodiesel engine vehicles in Malaysia and Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 220-235	16.2	148
302	Biodiesel production from Calophyllum inophyllum-Ceiba pentandra oil mixture: Optimization and characterization. <i>Journal of Cleaner Production</i> , 2019 , 219, 183-198	10.3	140
301	Techno-economic analysis of a wind-solar hybrid renewable energy system with rainwater collection feature for urban high-rise application. <i>Applied Energy</i> , 2011 , 88, 4067-4077	10.7	139
300	Advances in CO ₂ utilization technology: A patent landscape review. <i>Journal of CO₂ Utilization</i> , 2018 , 26, 323-335	7.6	139
299	Correlation between thermal conductivity and the thickness of selected insulation materials for building wall. <i>Energy and Buildings</i> , 2007 , 39, 182-187	7	135
298	Biodiesel synthesis from Ceiba pentandra oil by microwave irradiation-assisted transesterification: ELM modeling and optimization. <i>Renewable Energy</i> , 2020 , 146, 1278-1291	8.1	133
297	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	10.6	131
296	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. <i>Energy</i> , 2013 , 58, 296-304	7.9	131
295	A review on energy scenario and sustainable energy in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2316-2328	16.2	129
294	A review on electricity generation based on biomass residue in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 5879-5889	16.2	129
293	An Overview of Recent Developments in Biomass Pyrolysis Technologies. <i>Energies</i> , 2018 , 11, 3115	3.1	126

292	Genetic algorithm based optimization on modeling and design of hybrid renewable energy systems. <i>Energy Conversion and Management</i> , 2014 , 85, 120-130	10.6	123
291	A review on energy pattern and policy for transportation sector in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 532-542	16.2	122
290	Experimental study on performance and exhaust emissions of a diesel engine fuelled with Ceiba pentandra biodiesel blends. <i>Energy Conversion and Management</i> , 2013 , 76, 828-836	10.6	120
289	Preparation of nitrogen-doped graphene/palmitic acid shape stabilized composite phase change material with remarkable thermal properties for thermal energy storage. <i>Applied Energy</i> , 2014 , 135, 339-349	10.7	115
288	Curbing global warming with phase change materials for energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 18, 23-30	16.2	112
287	An alternative energy source from palm wastes industry for Malaysia and Indonesia. <i>Energy Conversion and Management</i> , 2001 , 42, 2109-2118	10.6	111
286	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019 , 12, 3167	3.1	108
285	Preparation and properties of highly conductive palmitic acid/graphene oxide composites as thermal energy storage materials. <i>Energy</i> , 2013 , 58, 628-634	7.9	107
284	Potential of geothermal energy for electricity generation in Indonesia: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 733-740	16.2	102
283	Grid-connected renewable energy sources: Review of the recent integration requirements and control methods. <i>Journal of Cleaner Production</i> , 2020 , 253, 119831	10.3	102
282	Life cycle cost and sensitivity analysis of palm biodiesel production. <i>Fuel</i> , 2012 , 98, 131-139	7.1	101
281	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	98
280	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	16.2	98
279	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	3.8	96
278	A Review of Internet of Energy Based Building Energy Management Systems: Issues and Recommendations. <i>IEEE Access</i> , 2018 , 6, 38997-39014	3.5	95
277	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	5.1	92
276	Latest development in microalgae-biofuel production with nano-additives. <i>Biotechnology for Biofuels</i> , 2019 , 12, 125	7.8	91
275	Second generation bioethanol potential from selected Malaysia's biodiversity biomasses: A review. <i>Waste Management</i> , 2016 , 47, 46-61	8.6	89

274	A comprehensive review on anaerobic digestion of organic fraction of municipal solid waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 137, 110637	16.2	86
273	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	16.2	81
272	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	10.6	80
271	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	7.9	79
270	Emissions from electricity generation in Malaysia. <i>Renewable Energy</i> , 2002 , 27, 293-300	8.1	78
269	Characterization and production of Ceiba pentandra biodiesel and its blends. <i>Fuel</i> , 2013 , 108, 855-858	7.1	76
268	Intensification of Reutealis trisperma biodiesel production using infrared radiation: Simulation, optimisation and validation. <i>Renewable Energy</i> , 2019 , 133, 520-527	8.1	75
267	Life cycle assessment of rice straw-based power generation in Malaysia. <i>Energy</i> , 2014 , 70, 401-410	7.9	74
266	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	4.7	72
265	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	5.9	72
264	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	10.6	71
263	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	7.9	69
262	Palmitic acid/polypyrrole composites as form-stable phase change materials for thermal energy storage. <i>Energy Conversion and Management</i> , 2014 , 80, 491-497	10.6	69
261	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	3.5	69
260	A review on energy scenario and sustainable energy in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 4652-4658	16.2	69
259	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	12.8	69
258	Potential energy savings by radiative cooling system for a building in tropical climate. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 32, 642-650	16.2	67
257	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	7.8	67

256	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	4.9	65
255	A review on emissions and mitigation strategies for road transport in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3516-3522	16.2	65
254	Elemental, morphological and thermal analysis of mixed microalgae species from drain water. <i>Renewable Energy</i> , 2019 , 131, 617-624	8.1	63
253	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	16.2	63
252	Performance and emission analysis of hydrogen fueled compression ignition engine with variable water injection timing. <i>Energy</i> , 2012 , 43, 416-426	7.9	63
251	Theory of energy efficiency standards and labels. <i>Energy Conversion and Management</i> , 2002 , 43, 743-761	10.6	62
250	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	16.2	58
249	Chillers energy consumption, energy savings and emission analysis in an institutional buildings. <i>Energy</i> , 2011 , 36, 5233-5238	7.9	57
248	Palm oil and its wastes as bioenergy sources: a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 14849-14866	5.1	56
247	A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine. <i>RSC Advances</i> , 2016 , 6, 14964-14992	3.7	56
246	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. <i>Fuel</i> , 2022 , 307, 121782	7.1	56
245	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	1.6	55
244	Toward Enhanced State of Charge Estimation of Lithium-ion Batteries Using Optimized Machine Learning Techniques. <i>Scientific Reports</i> , 2020 , 10, 4687	4.9	54
243	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	16.2	53
242	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	7	53
241	Schleichera oleosa L oil as feedstock for biodiesel production. <i>Fuel</i> , 2015 , 156, 63-70	7.1	53
240	Production of biodiesel from <i>Sterculia foetida</i> and its process optimization. <i>Fuel</i> , 2013 , 111, 478-484	7.1	53
239	Cost-benefit analysis and emission reduction of lighting retrofits in residential sector. <i>Energy and Buildings</i> , 2005 , 37, 573-578	7	53

238	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	10.6	53
237	Facile synthesis and thermal performances of stearic acid/titania core/shell nanocapsules by sol-gel method. <i>Energy</i> , 2015 , 85, 635-644	7.9	52
236	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	16.2	52
235	Life cycle assessment of rice straw co-firing with coal power generation in Malaysia. <i>Energy</i> , 2013 , 57, 284-294	7.9	51
234	Recent progress in integrated fixed-film activated sludge process for wastewater treatment: A review. <i>Journal of Environmental Management</i> , 2020 , 268, 110718	7.9	50
233	Modeling and simulation of the energy use in an occupied residential building in cold climate. <i>Applied Energy</i> , 2012 , 91, 432-438	10.7	49
232	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	16.2	49
231	A Review of Bioethanol Production from Plant-based Waste Biomass by Yeast Fermentation 2017 , 8, 5		49
230	Biodiesel Conversion from High FFA Crude Jatropha Curcas, Calophyllum Inophyllum and Ceiba Pentandra Oil. <i>Energy Procedia</i> , 2014 , 61, 480-483	2.3	48
229	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	7	48
228	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	5.8	47
227	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	5.6	46
226	Pilot-scale production and the physicochemical properties of palm and Calophyllum inophyllum biodiesels and their blends. <i>Journal of Cleaner Production</i> , 2016 , 126, 654-666	10.3	46
225	A comparative study of ultrasound and infrared transesterification of Sterculia foetida oil for biodiesel production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 1339-1346	1.6	45
224	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	6.4	45
223	Numerical study for enhancement of solidification of phase change materials using trapezoidal cavity. <i>Powder Technology</i> , 2014 , 268, 38-47	5.2	45
222	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	5.8	45
221	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	16.2	44

220	CostBenefit analysis of implementing minimum energy efficiency standards for household refrigerator-freezers in Malaysia. <i>Energy Policy</i> , 2004 , 32, 1819-1824	7.2	44
219	Intelligent algorithms and control strategies for battery management system in electric vehicles: Progress, challenges and future outlook. <i>Journal of Cleaner Production</i> , 2021 , 292, 126044	10.3	44
218	Progress in physicochemical parameters of microalgae cultivation for biofuel production. <i>Critical Reviews in Biotechnology</i> , 2019 , 39, 835-859	9.4	43
217	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	5.8	41
216	Fuel consumption and emission prediction by Iranian power plants until 2025. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 1575-1592	16.2	41
215	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	16.2	41
214	Effect of nanocatalysts on the transesterification reaction of first, second and third generation biodiesel sources- A mini-review. <i>Chemosphere</i> , 2021 , 270, 128642	8.4	41
213	Potential thermochemical conversion of bioenergy from Acacia species in Brunei Darussalam: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 3060-3076	16.2	41
212	Thermal analysis of cylinder head carbon deposits from single cylinder diesel engine fueled by palm oilDiesel fuel emulsions. <i>Applied Energy</i> , 2009 , 86, 2107-2113	10.7	39
211	Battery energy-storage system: A review of technologies, optimization objectives, constraints, approaches, and outstanding issues. <i>Journal of Energy Storage</i> , 2021 , 42, 103023	7.8	39
210	Fabrication and Performances of Microencapsulated Palmitic Acid with Enhanced Thermal Properties. <i>Energy & Fuels</i> , 2015 , 29, 1010-1018	4.1	38
209	Techno-economics and Sensitivity Analysis of Microalgae as Commercial Feedstock for Bioethanol Production. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 13157	2.5	37
208	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	16.2	36
207	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	16.2	36
206	Second law analysis for optimal thermal design of radial fin geometry by convection. <i>Applied Thermal Engineering</i> , 2007 , 27, 1363-1370	5.8	36
205	Organosulfonic acid functionalized zeolite ZSM-5 as temperature tolerant proton conducting material. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 12513-12521	6.7	35
204	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	10.3	35
203	Analysis and evaluation of various aspects of solar radiation in the Palestinian territories. <i>Energy Conversion and Management</i> , 2013 , 73, 57-68	10.6	34

202	Life cycle assessment (LCA) of electricity generation from rice husk in Malaysia. <i>Energy Procedia</i> , 2012 , 14, 499-504	2.3	34
201	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	6.8	33
200	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	16.2	33
199	Current and future energy and exergy efficiencies in the Iran transportation sector. <i>Energy Conversion and Management</i> , 2013 , 74, 24-34	10.6	32
198	The applicability of ISO household refrigerator freezer energy test specifications in Malaysia. <i>Energy</i> , 2001 , 26, 723-737	7.9	32
197	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	10.1	31
196	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	7.9	31
195	Thermal and melting heat transfer characteristics in a latent heat storage system using mikro. <i>Applied Thermal Engineering</i> , 2005 , 25, 1503-1515	5.8	30
194	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	1.6	29
193	Optimization of Reducing Sugar Production from <i>Manihot glaziovii</i> Starch Using Response Surface Methodology. <i>Energies</i> , 2017 , 10, 35	3.1	29
192	Rice straw supply chain for electricity generation in Malaysia: Economical and environmental assessment. <i>Applied Energy</i> , 2014 , 135, 299-308	10.7	28
191	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	10.6	28
190	Modeling and simulation to determine the potential energy savings by implementing cold thermal energy storage system in office buildings. <i>Energy Conversion and Management</i> , 2013 , 75, 152-161	10.6	28
189	Viewpoint: Mitigation of emissions through energy efficiency standards for room air conditioners in Malaysia. <i>Energy Policy</i> , 2004 , 32, 1783-1787	7.2	28
188	Potential CO2 reduction by implementing energy efficiency standard for room air conditioner in Malaysia. <i>Energy Conversion and Management</i> , 2001 , 42, 1673-1685	10.6	28
187	Feasibility of microalgae as feedstock for alternative fuel in Malaysia: A review. <i>Energy Strategy Reviews</i> , 2020 , 32, 100536	9.8	28
186	Membrane Surface Patterning as a Fouling Mitigation Strategy in Liquid Filtration: A Review. <i>Polymers</i> , 2019 , 11,	4.5	27
185	A review on the pattern of electricity generation and emission in Indonesia from 1987 to 2009. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 3206-3219	16.2	27

184	Exergy analysis of evaporative cooling for reducing energy use in a Malaysian building. <i>Desalination</i> , 2007 , 209, 238-243	10.3	27
183	Potential electricity savings by implementing minimum energy efficiency standards for room air conditioners in Malaysia. <i>Energy Conversion and Management</i> , 2001 , 42, 439-450	10.6	27
182	Review on fuel economy standard and label for vehicle in selected ASEAN countries. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 1683-1695	16.2	26
181	Development and test of a new catalytic converter for natural gas fuelled engine. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2009 , 34, 467-481	1	26
180	Energy savings and cost benefit analysis of using compression and absorption chillers for air conditioners in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 1950-1960	16.2	26
179	Energy, economic and environmental benefits of using high-efficiency motors to replace standard motors for the Malaysian industries. <i>Energy Policy</i> , 2010 , 38, 4617-4625	7.2	26
178	Potential electricity savings by implementing energy labels for room air conditioner in Malaysia. <i>Energy Conversion and Management</i> , 2002 , 43, 2225-2233	10.6	26
177	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	16.2	26
176	Synthesis and characterization of rice husk biochar via hydrothermal carbonization for wastewater treatment and biofuel production. <i>Scientific Reports</i> , 2020 , 10, 18851	4.9	26
175	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	10.3	26
174	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	3.5	25
173	Thermo-physical stability of fatty acid eutectic mixtures subjected to accelerated aging for thermal energy storage (TES) application. <i>Applied Thermal Engineering</i> , 2014 , 66, 328-334	5.8	25
172	Considerations for the selection of an applicable energy efficiency test procedure for electric motors in Malaysia: Lessons for other developing countries. <i>Energy Policy</i> , 2009 , 37, 3467-3474	7.2	25
171	Projected electricity savings from implementing minimum energy efficiency standard for household refrigerators in Malaysia. <i>Energy</i> , 2003 , 28, 751-754	7.9	25
170	Development of A Novel Corrugated Polyvinylidene difluoride Membrane via Improved Imprinting Technique for Membrane Distillation. <i>Polymers</i> , 2019 , 11,	4.5	24
169	Thermodynamic evaluation of utilizing different ice thermal energy storage systems for cooling application in office buildings in Malaysia. <i>Energy and Buildings</i> , 2012 , 53, 117-126	7	24
168	Scheduling controller for microgrids energy management system using optimization algorithm in achieving cost saving and emission reduction. <i>Applied Energy</i> , 2021 , 292, 116883	10.7	24
167	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019 , 12, 4116	3.1	24

166	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	8.1	24
165	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. <i>Energies</i> , 2019 , 12, 3557	3.1	23
164	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	5.6	23
163	Glycerol to Solketal for Fuel Additive: Recent Progress in Heterogeneous Catalysts. <i>Energies</i> , 2019 , 12, 2872	3.1	23
162	Potential CO ₂ reduction by fuel substitution to generate electricity in Malaysia. <i>Energy Conversion and Management</i> , 2002 , 43, 763-770	10.6	23
161	Prospect of using rice straw for power generation: a review. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 25956-25969	5.1	22
160	Preparation and thermal characteristics of eutectic fatty acids/Shorea javanica composite for thermal energy storage. <i>Applied Thermal Engineering</i> , 2016 , 100, 62-67	5.8	22
159	Energy trends in Palestinian territories of West Bank and Gaza Strip: Possibilities for reducing the reliance on external energy sources. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 28, 117-129	16.2	22
158	Load-displacement behavior of glass fiber/epoxy composite plates with circular cut-outs subjected to compressive load. <i>Materials & Design</i> , 2010 , 31, 466-474		22
157	Dynamic modeling and simulation of a palm wastes boiler. <i>Renewable Energy</i> , 2003 , 28, 1235-1256	8.1	22
156	Impregnation of CaO from Eggshell Waste with Magnetite as a Solid Catalyst (Fe ₃ O ₄ /CaO) for Transesterification of Palm Oil Off-Grade. <i>Catalysts</i> , 2020 , 10, 164	4	21
155	Preparation and characterisation of microencapsulated paraffin wax with polyaniline-based polymer shells for thermal energy storage. <i>Materials Research Innovations</i> , 2014 , 18, S6-480-S6-484	1.9	21
154	Energy and environmental assessments of bioethanol production from Sri Kanji 1 cassava in Malaysia. <i>Biofuel Research Journal</i> , 2017 , 4, 537-544	13.9	21
153	Physicochemical Properties of Biodiesel Synthesised from Grape Seed, Philippine Tung, Kesambi, and Palm Oils. <i>Energies</i> , 2020 , 13, 1319	3.1	20
152	Performance investigation of nanofluids as working fluid in a thermosyphon air preheater. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 523-529	5.8	20
151	Methodology for predicting market transformation due to implementation of energy efficiency standards and labels. <i>Energy Conversion and Management</i> , 2004 , 45, 1785-1793	10.6	20
150	Organic Rankine Cycle (ORC) System Applications for Solar Energy: Recent Technological Advances. <i>Energies</i> , 2019 , 12, 2930	3.1	19
149	Potential fuel savings and emissions reduction from fuel economy standards implementation for motor-vehicles. <i>Clean Technologies and Environmental Policy</i> , 2010 , 12, 255-263	4.3	19

148	Economical and environmental impact of room air conditioners energy labels in Malaysia. <i>Energy Conversion and Management</i> , 2002 , 43, 2509-2520	10.6	19
147	Experimental investigation of energy properties for <i>Stigonematales</i> sp. microalgae as potential biofuel feedstock. <i>International Journal of Sustainable Engineering</i> , 2019 , 12, 123-130	3.1	19
146	Mechanical and Thermal Properties of Montmorillonite-Reinforced Polypropylene/Rice Husk Hybrid Nanocomposites. <i>Polymers</i> , 2019 , 11,	4.5	18
145	Life Cycle Cost and Sensitivity Analysis of <i>Reutealis trisperma</i> as Non-Edible Feedstock for Future Biodiesel Production. <i>Energies</i> , 2017 , 10, 877	3.1	18
144	Labeling design effort for household refrigerator-freezers in Malaysia. <i>Energy Policy</i> , 2005 , 33, 611-618	7.2	18
143	The Efficacy of the Period of Saccharification on Oil Palm (<i>Elaeis guineensis</i>) Trunk Sap Hydrolysis 2018 , 9, 652		18
142	Pyrolysis of solid waste residues from Lemon Myrtle essential oils extraction for bio-oil production. <i>Bioresource Technology</i> , 2020 , 318, 123913	11	18
141	Energy-Related CO2 Emissions Growth in ASEAN Countries: Trends, Drivers and Policy Implications. <i>Energies</i> , 2019 , 12, 4650	3.1	18
140	Geochemistry Exploration and Geothermometry Application in the North Zone of Seulawah Agam, Aceh Besar District, Indonesia. <i>Energies</i> , 2019 , 12, 4442	3.1	18
139	Evaluating in-use vehicle emissions using air quality monitoring stations and on-road remote sensing systems. <i>Science of the Total Environment</i> , 2020 , 740, 139868	10.2	17
138	Cost-benefit analysis and emission reduction of energy efficient lighting at the Universiti Tenaga Nasional. <i>Scientific World Journal, The</i> , 2014 , 2014, 745894	2.2	17
137	Experimental Test of a New Compressed Natural Gas Direct Injection Engine. <i>Energy & Fuels</i> , 2009 , 23, 4981-4987	4.1	17
136	Effect of Acid Pretreatment on Enzymatic Hydrolysis in Bioethanol Production from Rice Straw 2015 , 6, 3		17
135	Recent Progress in Low-Cost Catalysts for Pyrolysis of Plastic Waste to Fuels. <i>Catalysts</i> , 2021 , 11, 837	4	17
134	Experimental Investigation, Techno-Economic Analysis and Environmental Impact of Bioethanol Production from Banana Stem. <i>Energies</i> , 2019 , 12, 3947	3.1	16
133	Development of energy labels for room air conditioner in Malaysia: methodology and results. <i>Energy Conversion and Management</i> , 2002 , 43, 1985-1997	10.6	16
132	. <i>IEEE Access</i> , 2019 , 7, 98565-98578	3.5	15
131	Energy labeling for electric fans in Malaysia. <i>Energy Policy</i> , 2005 , 33, 63-68	7.2	15

130	The Performance and Exhaust Emissions of a Diesel Engine Fuelled with Calophyllum inophyllumBalm Biodiesel. <i>Processes</i> , 2019 , 7, 597	2.9	14
129	Particle swarm optimised fuzzy controller for charging/discharging and scheduling of battery energy storage system in MG applications. <i>Energy Reports</i> , 2020 , 6, 215-228	4.6	14
128	Resource Recovery from Waste Coffee Grounds Using Ultrasonic-Assisted Technology for Bioenergy Production. <i>Energies</i> , 2020 , 13, 1770	3.1	14
127	Lipid Extraction Maximization and Enzymatic Synthesis of Biodiesel from Microalgae. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6103	2.6	14
126	Electricity savings from implementation of minimum energy efficiency standard for TVs in Malaysia. <i>Energy and Buildings</i> , 2005 , 37, 685-689	7	13
125	A ranking scheme for biodiesel underpinned by critical physicochemical properties. <i>Energy Conversion and Management</i> , 2021 , 229, 113742	10.6	13
124	Biogas upgrading, economy and utilization: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 4137	13.3	13
123	Energy storage integration towards achieving grid decarbonization: A bibliometric analysis and future directions. <i>Journal of Energy Storage</i> , 2021 , 41, 102855	7.8	13
122	Methodology for implementing power plant efficiency standards for power generation: potential emission reduction. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 309-327	4.3	12
121	Investigation of Biodiesel Production from Cerbera Manghas Biofuel Sources. <i>Energy Procedia</i> , 2014 , 61, 436-439	2.3	12
120	Energy Saving Methods and Results Analysis in the Hotel. <i>Energy Procedia</i> , 2012 , 14, 1523-1527	2.3	12
119	Impacts of energy efficiency standard on motor energy savings and emission reductions. <i>Clean Technologies and Environmental Policy</i> , 2011 , 13, 103-109	4.3	12
118	Impact of renewable energy utilization and artificial intelligence in achieving sustainable development goals. <i>Energy Reports</i> , 2021 , 7, 5359-5373	4.6	12
117	The Effect of Multi-Walled Carbon Nanotubes-Additive in Physicochemical Property of Rice Brand Methyl Ester: Optimization Analysis. <i>Energies</i> , 2019 , 12, 3291	3.1	11
116	Comparison of the Utilization of 110 °C and 120 °C Heat Sources in a Geothermal Energy System Using Organic Rankine Cycle (ORC) with R245fa, R123, and Mixed-Ratio Fluids as Working Fluids. <i>Processes</i> , 2019 , 7, 113	2.9	11
115	Techno-Economic Analysis of CO2 Capture Technologies in Offshore Natural Gas Field: Implications to Carbon Capture and Storage in Malaysia. <i>Processes</i> , 2020 , 8, 350	2.9	11
114	Techno-economic and environmental assessment of bioethanol production from high starch and root yield Sri Kanji 1 cassava in Malaysia. <i>Energy Reports</i> , 2016 , 2, 246-253	4.6	11
113	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	2.9	11

112	Cost-benefit analysis of using cold thermal energy storage systems in building applications. <i>Energy Procedia</i> , 2012 , 14, 493-498	2.3	11
111	International experience on incentive program in support of fuel economy standards and labelling for motor vehicle: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 25, 18-33	16.2	11
110	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	16.2	11
109	Exergy analysis for day lighting, electric lighting and space cooling systems for a room space in a tropical climate. <i>Energy and Buildings</i> , 2011 , 43, 1676-1684	7	11
108	Role of optimization algorithms based fuzzy controller in achieving induction motor performance enhancement. <i>Nature Communications</i> , 2020 , 11, 3792	17.4	11
107	Optimization of Cerbera manghas Biodiesel Production Using Artificial Neural Networks Integrated with Ant Colony Optimization. <i>Energies</i> , 2019 , 12, 3811	3.1	11
106	The Yield Prediction of Synthetic Fuel Production from Pyrolysis of Plastic Waste by Levenberg-Marquardt Approach in Feedforward Neural Networks Model. <i>Polymers</i> , 2019 , 11,	4.5	11
105	Production Process and Optimization of Solid Bioethanol from Empty Fruit Bunches of Palm Oil Using Response Surface Methodology. <i>Processes</i> , 2019 , 7, 715	2.9	11
104	Finned spacer for efficient membrane fouling control in produced water filtration. <i>Journal of Environmental Management</i> , 2019 , 249, 109359	7.9	10
103	Techno-Economic and Sensitivity Analysis of Rainwater Harvesting System as Alternative Water Source. <i>Sustainability</i> , 2019 , 11, 2365	3.6	10
102	A review on fuel economy test procedure for automobiles: Implementation possibilities in Malaysia and lessons for other countries. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 4029-4046	16.2	10
101	Utilization of low rank coal as oxidation catalyst by controllable removal of its carbonaceous component. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 46, 183-190	5.3	10
100	The interest of combining two additives with palm olein as selected lubricant components. <i>Industrial Lubrication and Tribology</i> , 2011 , 63, 203-209	1.3	10
99	Experimental Test of a New Compressed Natural Gas Engine with Direct Injection 2009 ,		10
98	Fuzzy Based Particle Swarm Optimization for Modeling Home Appliances Towards Energy Saving and Cost Reduction Under Demand Response Consideration. <i>IEEE Access</i> , 2020 , 8, 210784-210799	3.5	10
97	Intelligent Controllers and Optimization Algorithms for Building Energy Management Towards Achieving Sustainable Development: Challenges and Prospects. <i>IEEE Access</i> , 2021 , 9, 41577-41602	3.5	10
96	Bioethanol production from forest residues and life cycle cost analysis of bioethanol-gasoline blend on transportation sector. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105542	6.8	10
95	Calorific Value Analysis of Azadirachta Excelsa and Endospermum Malaccense as Potential Solid Fuels Feedstock 2017 , 8, 634		9

94	Mechanical properties of concrete containing beeswax/dammar gum as phase change material for thermal energy storage. <i>AIMS Energy</i> , 2018 , 6, 521-529	1.8	9
93	Development of energy labels based on consumer perspective: Room air conditioners as a case study in Brunei Darussalam. <i>Energy Reports</i> , 2018 , 4, 671-681	4.6	9
92	New method to synthesize mesoporous titania by photodegradation of surfactant template. <i>Solid State Sciences</i> , 2016 , 52, 83-91	3.4	8
91	Fuel economy standards for light duty vehicles and their potential to aid Iran toward achieving fuel saving and emissions reduction. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 661-666	4.3	8
90	Facile preparation of carbon microcapsules containing phase-change material with enhanced thermal properties. <i>Scientific World Journal</i> , 2014 , 2014, 379582	2.2	8
89	Utilizing heat pipe heat exchanger to reduce the energy consumption of airborne infection isolation hospital room HVAC system. <i>Journal of Building Engineering</i> , 2021 , 35, 102116	5.2	8
88	The effect of dilute acid pre-treatment process in bioethanol production from durian (<i>Durio zibethinus</i>) seeds waste. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 32, 012058	0.3	8
87	Techno-Economic Analysis and Environmental Impact of Electric Buses. <i>World Electric Vehicle Journal</i> , 2021 , 12, 31	2.5	8
86	Impact of infrastructural policies to reduce travel time expenditure of car users with significant reductions in energy consumption. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 327-335	16.2	7
85	Method for calculating annual energy efficiency improvement of TV sets. <i>Energy Policy</i> , 2006 , 34, 2429-2432	7.1	7
84	CO2 taxation on electricity generation for trees replanting in Malaysia. <i>Energy Conversion and Management</i> , 2003 , 44, 723-730	10.6	7
83	Alternative Briquette Material Made from Palm Stem Biomass Mediated by Glycerol Crude of Biodiesel Byproducts as a Natural Adhesive. <i>Processes</i> , 2020 , 8, 777	2.9	7
82	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. <i>Energies</i> , 2021 , 14, 3732	3.1	7
81	Liquid cooled plate heat exchanger for battery cooling of an electric vehicle (EV). <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 32, 012053	0.3	7
80	Leverage of Environmental Pollutant Crump Rubber on the Dry Sliding Wear Response of Epoxy Composites. <i>Polymers</i> , 2021 , 13,	4.5	7
79	Pyrolysis of waste oils for the production of biofuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127396	12.8	7
78	Insight into the Sustainable Integration of Bio- and Petroleum Refineries for the Production of Fuels and Chemicals. <i>Polymers</i> , 2020 , 12,	4.5	6
77	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	16.2	6

76	History and current status of the motor vehicle energy labeling and its implementation possibilities in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 1828-1844	16.2	6
75	Effect of Non-Edible Biodiesel Physical and Chemical Properties as Microturbine Fuel. <i>Energy Procedia</i> , 2017 , 142, 413-418	2.3	6
74	Thermal Reliability of Myristic Acid/Palmitic Acid/Sodium Laurate Eutectic Mixture: A Feasibility Study of Accelerated Aging for Thermal Energy Storage Application. <i>Energy Procedia</i> , 2014 , 61, 49-54	2.3	6
73	Mathematical modeling on the effect of equivalence ratio in emission characteristics of compression ignition engine with hydrogen substitution. <i>Applied Mathematics and Computation</i> , 2011 , 217, 6144-6158	2.7	6
72	Optimization of Dry Storage for Spent Fuel from G.A. Siwabessy Nuclear Research Reactor 2018 , 9, 55		6
71	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. <i>Environmental Technology and Innovation</i> , 2022 , 25, 102114	7	6
70	Biohydrogen production from wastewater-based microalgae: Progresses and challenges. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	6
69	Optimisation of biodiesel production from mixed <i>Sterculia foetida</i> and rice bran oil. <i>International Journal of Ambient Energy</i> , 1-11	2	6
68	Development of a novel thermoelectric module based device for thermal stability measurement of phase change materials. <i>Journal of Energy Storage</i> , 2019 , 22, 331-335	7.8	5
67	A Comparative Study of Virgin Coconut Oil, Coconut Oil and Palm Oil in Terms of Their Active Ingredients. <i>Processes</i> , 2020 , 8, 402	2.9	5
66	Energy and fuel consumption forecast by retrofitting absorption cooling in Malaysia from 2012 to 2025. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 6128-6141	16.2	5
65	Grid-connected lithium-ion battery energy storage system: A bibliometric analysis for emerging future directions. <i>Journal of Cleaner Production</i> , 2022 , 334, 130272	10.3	5
64	A Review on Fuel Economy Standards and Labels for Motor Vehicles: Implementation Possibility in Pakistan. <i>Journal of Applied Sciences</i> , 2007 , 7, 626-632	0.3	5
63	The effect of hybrid savonius and darrieus turbine on the change of wake recovery and improvement of wind energy harvesting. <i>Journal of Applied Engineering Science</i> , 2018 , 16, 416-423	1.2	5
62	Biodiesel Production from <i>Reutealis trisperma</i> Oil Using Conventional and Ultrasonication through Esterification and Transesterification. <i>Sustainability</i> , 2021 , 13, 3350	3.6	5
61	State-of-the-Art of Establishing Test Procedures for Real Driving Gaseous Emissions from Light- and Heavy-Duty Vehicles. <i>Energies</i> , 2021 , 14, 4195	3.1	5
60	Harvesting <i>Porphyridium purpureum</i> using polyacrylamide polymers and alkaline bases and their impact on biomass quality. <i>Science of the Total Environment</i> , 2021 , 755, 142412	10.2	5
59	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105657	6.8	5

58	Impact of biodiesel application on fuel savings and emission reduction for power generation in Malaysia. <i>Energy Procedia</i> , 2019 , 158, 3325-3330	2.3	4
57	Experimental Evaluation of an Unmodified Diesel Engine using Biodiesel with Fuel Additive 2006 ,		4
56	Multi-stage heat-pipe heat exchanger for improving energy efficiency of the HVAC system in a hospital operating room 1. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 259-267	2.8	4
55	Exergetic sustainability analysis of industrial furnace: a case study. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 12881-12888	5.1	4
54	SARS-CoV-2 variants and environmental effects of lockdowns, masks and vaccination: a review. <i>Environmental Chemistry Letters</i> , 2021 , 1-12	13.3	4
53	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	4.9	4
52	Microalgae-bacteria consortium for wastewater treatment and biomass production.. <i>Science of the Total Environment</i> , 2022 , 155871	10.2	4
51	Titania-Loaded Coal Char as Catalyst in Oxidation of Styrene with Aqueous Hydrogen Peroxide. <i>International Journal of Chemical Reactor Engineering</i> , 2017 , 15,	1.2	3
50	Turbine Design for Low Heat Organic Rankine Cycle Power Generation using Renewable Energy Sources. <i>MATEC Web of Conferences</i> , 2018 , 164, 01012	0.3	3
49	Factors effecting energy consumption of household refrigerator-freezers		3
48	Selection of microalgae strains for sustainable production of aviation biofuel. <i>Bioresource Technology</i> , 2021 , 345, 126408	11	3
47	Techno-economic analysis of bioethanol production from rice straw by liquid-state fermentation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 32, 012048	0.3	3
46	The potential biodiesel production from Cerbera odollam oil (Bintaro) in Aceh. <i>MATEC Web of Conferences</i> , 2018 , 159, 01049	0.3	3
45	Simultaneous nutrient recovery and algal biomass production from anaerobically digested sludge centrate using a membrane photobioreactor. <i>Bioresource Technology</i> , 2022 , 343, 126069	11	3
44	Current and future strategies for spent nuclear fuel management in Indonesia. <i>Energy Strategy Reviews</i> , 2020 , 32, 100575	9.8	2
43	Evaluating the Effect of Syngas Composition on Micro gas turbine Performance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 32, 012042	0.3	2
42	Experimental Investigation of Air Conditioner using the Desiccant Cooling System in Equatorial Climates. <i>MATEC Web of Conferences</i> , 2018 , 164, 01022	0.3	2
41	Beeswax as phase change material to improve solar panel performance. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 308, 012024	0.4	2

40	Liquid-gas boundary catalysis by using gold/polystyrene-coated hollow titania. <i>Journal of Colloid and Interface Science</i> , 2013 , 394, 490-7	9.3	2
39	Air assist atomization characterization of palm biodiesel through experimental investigation and CFD simulation. <i>Biofuels</i> , 2017 , 8, 571-577	2	2
38	Sensitivity analysis of potential fuel savings by implementation of fuel economy standards for motorcycle. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 175-182	4.3	2
37	An experimental investigation of unmodified DI diesel engine with hydrogen addition 2009 ,		2
36	CO, HC and NOx Emissions Characteristics of a Retrofitted Bi-fuel Natural Gas Engine. <i>HKIE Transactions</i> , 2005 , 12, 25-30	2.9	2
35	Market Transformation Due to Implementation of Energy Efficiency Standards and Labels Implementation for Electric Motor. <i>Journal of Applied Sciences</i> , 2009 , 9, 2630-2634	0.3	2
34	Thermal properties of sonicated graphene in coconut oil as a phase change material for energy storage in building applications ¹ . <i>International Journal of Low-Carbon Technologies</i> , 2020 , 15, 629-636	2.8	2
33	Effect of Injection Timing and Injection Duration of Manifold Injected Fuels in Reactivity Controlled Compression Ignition Engine Operated with Renewable Fuels. <i>Energies</i> , 2021 , 14, 4621	3.1	2
32	Optimization algorithms for energy storage integrated microgrid performance enhancement. <i>Journal of Energy Storage</i> , 2021 , 43, 103182	7.8	2
31	An overview of palm oil biomass for power generation sector decarbonization in Malaysia: Progress, challenges, and prospects. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> ,	4.7	2
30	Microgrid control methods toward achieving sustainable energy management: A bibliometric analysis for future directions. <i>Journal of Cleaner Production</i> , 2022 , 348, 131340	10.3	2
29	Catalyst Characteristics and Performance of Silica-Supported Zinc for Hydrodeoxygenation of Phenol. <i>Energies</i> , 2020 , 13, 2802	3.1	1
28	Development and Test of a New Catalytic Converter for Natural Gas Fueled Engine 2008 ,		1
27	Optimization of Radial Convective Radiating Fin Geometry for Single Cylinder Internal Combustion Engine (ICE): Entropy Generation Minimization 2005 , 405		1
26	Potential Electricity Savings by Implementing Energy Efficiency Standards for Household Electrical Appliances in Malaysia 2000 , 2606-2609		1
25			1
24	Progress in Development of Nanostructured Manganese Oxide as Catalyst for Oxygen Reduction and Evolution Reaction. <i>Energies</i> , 2021 , 14, 6385	3.1	1
23	Energy Efficiency Analysis in Building Walls in Tropical Climate Using Thermal Insulation System 2020 , 255-261		1

22	Withering of tea leaves using heat pipe heat exchanger by utilizing low-temperature geothermal energy. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 146-155	2.8	1
21	Utilization of Renewable Energy for Power Sector in Yemen: Current Status and Potential Capabilities. <i>IEEE Access</i> , 2021 , 9, 79278-79292	3.5	1
20	Edible bio-oil production from microalgae and application of nano-technology 2021 , 91-116		1
19	Investigation of Thermal Characteristic of Eutectic Fatty Acid/Damar Gum as a Composite Phase Change Material (CPCM). <i>Green Energy and Technology</i> , 2018 , 607-616	0.6	1
18	Heat Transfer and Entropy in a Vertical Porous Plate Subjected to Suction Velocity and MHD. <i>Entropy</i> , 2021 , 23,	2.8	1
17	Cultivation of <i>Synechococcus</i> HS-9 in a novel rectangular bubble column photobioreactor with horizontal baffle. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101264	5.6	1
16	Integration of Phase Change Material in the Design of Solar Concentrator-Based Water Heating System.. <i>Entropy</i> , 2021 , 24,	2.8	1
15	Insights into the development of microbial fuel cells for generating biohydrogen, bioelectricity, and treating wastewater. <i>Energy</i> , 2022 , 124163	7.9	1
14	Experimental analysis of natural wax as phase change material by thermal cycling test using thermoelectric system. <i>Journal of Energy Storage</i> , 2021 , 40, 102703	7.8	0
13	Improved Natural Mordenite as Low-Cost Catalyst for Glycerol Acetalization into Solketal An Effective Fuel Additive. <i>Materials Science Forum</i> , 1057 , 71-87	0.4	0
12	Microalgae-based carbon capture and utilization: A critical review on current system developments and biomass utilization. <i>Critical Reviews in Environmental Science and Technology</i> , 1-23	11.1	0
11	Thermal characteristic investigation of eutectic composite fatty acid as heat storage material for solar heating and cooling application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 334, 012017	0.4	
10	Reduction Measure for 3-D structure During Near-Source Ground Motions. <i>Energy Procedia</i> , 2012 , 14, 1613-1617	2.3	
9	Energy Economical and Environmental Analysis of Industrial Boilers Using VSD. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 3223-3233	0.3	
8	A New Approach to Exergy Analyses of a Hybrid Desiccant Cooling System Compares to a Vapor Compression System. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 2163-2169	0.3	
7	Emission mitigation from implementation of minimum energy performance standard (MEPS) for TVs in Malaysia. <i>Clean Technologies and Environmental Policy</i> , 2004 , 6, 282-287	4.3	
6	Development of Co-Relation Between Vehicle and Stationary Dynamometer-Engine Emissions 2005 , 101		
5	One-watt TV label implementation in Malaysia. <i>International Journal of Regulation and Governance</i> , 2005 , 5, 1-12		

4	The effect of enzymatic hydrolysis of pretreated wastepaper for bioethanol production. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 2493	2.8
3	Performance and emission study on waste cooking oil biodiesel and distillate blends for microturbine application. <i>AIMS Energy</i> , 2015 , 3, 798-809	1.8
2	The Way towards an Energy Efficient Transportation by Implementation of Fuel Economy Standards: Fuel Savings and Emissions Mitigation. <i>Sustainability</i> , 2021 , 13, 7348	3.6
1	Effect of Al ₂ O ₃ and TiO ₂ nano-coated wick on the thermal performance of heat pipe. <i>Journal of Thermal Analysis and Calorimetry</i> , ¹	4.1