

Hwai Chyuan Ong

List of Publications by Year in descending order

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Version: 2024-02-01

510
papers

40,869
citations

1536

106
h-index

4548

171
g-index

513
all docs

513
docs citations

513
times ranked

23432
citing authors

#	ARTICLE	IF	CITATIONS
1	Friction and wear characteristics of rice bran oil based biodiesel using calcium oxide catalyst derived from <i>Chicoreus Brunneus</i> shell. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 11015-11023.	2.3	2
2	Scaling-up heterotrophic cultures of <i>C. Pyrenoidosa</i> microalgae for sustainable synthesis of low-density biodiesel mixtures and predict CI engine behavior at optimal proportions. <i>Environment, Development and Sustainability</i> , 2023, 25, 400-422.	5.0	2
3	Behavior of wood during the thermal transition between torrefaction and pyrolysis: chemical and physical modifications.. <i>Wood Material Science and Engineering</i> , 2023, 18, 244-253.	2.3	1
4	Biofuel production from microalgae: challenges and chances. <i>Phytochemistry Reviews</i> , 2023, 22, 1089-1126.	6.5	55
5	Recent advancement in deoxygenation of fatty acids via homogeneous catalysis for biofuel production. <i>Molecular Catalysis</i> , 2022, 523, 111207.	2.0	10
6	Synthesis of glycerol-free fatty acid methyl ester using transesterification reaction based on solid acid carbon catalyst derived from low-cost biomass wastes. <i>International Journal of Energy Research</i> , 2022, 46, 147-162.	4.5	16
7	Flow field simulation and pressure drop modeling by a porous medium in PEM fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 163-177.	4.5	11
8	Optimisation of biodiesel production from mixed <i>Sterculia foetida</i> and rice bran oil. <i>International Journal of Ambient Energy</i> , 2022, 43, 4380-4390.	2.5	15
9	Pyrolysis of waste oils for the production of biofuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127396.	12.4	35
10	Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications. <i>Environmental Research</i> , 2022, 204, 111966.	7.5	86
11	Treatment of Hospital wastewater with submerged aerobic fixed film reactor coupled with tube-settler. <i>Chemosphere</i> , 2022, 286, 131838.	8.2	15
12	Pretreatment, modification and applications of sewage sludge-derived biochar for resource recovery- A review. <i>Chemosphere</i> , 2022, 287, 131969.	8.2	65
13	Microwave-assisted gasification of biomass for sustainable and energy-efficient biohydrogen and biosyngas production: A state-of-the-art review. <i>Chemosphere</i> , 2022, 287, 132014.	8.2	27
14	Algae as potential feedstock for various bioenergy production. <i>Chemosphere</i> , 2022, 287, 131944.	8.2	33
15	COVID-19 and industrial waste mitigation via thermochemical technologies towards a circular economy: A state-of-the-art review. <i>Journal of Hazardous Materials</i> , 2022, 423, 127215.	12.4	28
16	Single-step catalytic deoxygenation of palm feedstocks for the production of sustainable bio-jet fuel. <i>Energy</i> , 2022, 239, 122017.	8.8	26
17	Progress and challenges of contaminate removal from wastewater using microalgae biomass. <i>Chemosphere</i> , 2022, 286, 131656.	8.2	147
18	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

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19	A critical review on various remediation approaches for heavy metal contaminants removal from contaminated soils. <i>Chemosphere</i> , 2022, 287, 132369.	8.2	246
20	Green approaches in synthesising nanomaterials for environmental nanobioremediation: Technological advancements, applications, benefits and challenges. <i>Environmental Research</i> , 2022, 204, 111967.	7.5	132
21	State of art of valorising of diverse potential feedstocks for the production of alcohols and ethers: Current changes and perspectives. <i>Chemosphere</i> , 2022, 286, 131587.	8.2	15
22	Highly active iron-promoted hexagonal mesoporous silica (HMS) for deoxygenation of triglycerides to green hydrocarbon-like biofuel. <i>Fuel</i> , 2022, 308, 121860.	6.4	26
23	Engineered macroalgal and microalgal adsorbents: Synthesis routes and adsorptive performance on hazardous water contaminants. <i>Journal of Hazardous Materials</i> , 2022, 423, 126921.	12.4	27
24	Co-pyrolysis of microalgae and other biomass wastes for the production of high-quality bio-oil: Progress and prospective. <i>Bioresource Technology</i> , 2022, 344, 126096.	9.6	53
25	Biohydrogen production from wastewater-based microalgae: Progresses and challenges. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37321-37342.	7.1	31
26	Thematic issue: Bioenergy and biorefinery approaches for environmental sustainability. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1433-1433.	4.6	3
27	State-of-the-art of the pyrolysis and co-pyrolysis of food waste: Progress and challenges. <i>Science of the Total Environment</i> , 2022, 809, 151170.	8.0	26
28	Progress in thermochemical conversion of aquatic weeds in shellfish aquaculture for biofuel generation: Technical and economic perspectives. <i>Bioresource Technology</i> , 2022, 344, 126202.	9.6	20
29	Liquid hot water as sustainable biomass pretreatment technique for bioenergy production: A review. <i>Bioresource Technology</i> , 2022, 344, 126207.	9.6	103
30	Effect of torrefaction on the structure and reactivity of rice straw as well as life cycle assessment of torrefaction process. <i>Energy</i> , 2022, 240, 122470.	8.8	27
31	Power generation of thermoelectric generator with plate fins for recovering low-temperature waste heat. <i>Applied Energy</i> , 2022, 306, 118012.	10.1	33
32	Generating alternative fuel and bioplastics from medical plastic waste and waste frying oil using microwave co-pyrolysis combined with microbial fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111790.	16.4	28
33	Integrating Taguchi method and artificial neural network for predicting and maximizing biofuel production via torrefaction and pyrolysis. <i>Bioresource Technology</i> , 2022, 343, 126140.	9.6	46
34	Thermodegradation characterization of hardwoods and softwoods in torrefaction and transition zone between torrefaction and pyrolysis. <i>Fuel</i> , 2022, 310, 122281.	6.4	25
35	Production of sustainable two-stroke engine biolubricant ester base oil from palm fatty acid distillate. <i>Industrial Crops and Products</i> , 2022, 175, 114224.	5.2	14
36	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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37	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111814.	16.4	33
38	Recent advancements in catalytic conversion pathways for synthetic jet fuel produced from bioresources. <i>Energy Conversion and Management</i> , 2022, 251, 114974.	9.2	52
39	Sustainable valorization of algae biomass via thermochemical processing route: An overview. <i>Bioresource Technology</i> , 2022, 344, 126399.	9.6	38
40	Characteristics of hydrogen production from steam gasification of plant-originated lignocellulosic biomass and its prospects in Vietnam. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4394-4425.	7.1	110
41	Elemental loss, enrichment, transformation and life cycle assessment of torrefied corncob. <i>Energy</i> , 2022, 242, 123019.	8.8	4
42	Effect of torrefaction and fractional condensation on the quality of bio-oil from biomass pyrolysis for fuel applications. <i>Fuel</i> , 2022, 312, 122959.	6.4	18
43	Catalytic microwave torrefaction of microalga <i>Chlorella vulgaris</i> FSP-E with magnesium oxide optimized via taguchi approach: A thermo-energetic analysis. <i>Chemosphere</i> , 2022, 290, 133374.	8.2	7
44	Environment-friendly deoxygenation of non-edible Ceiba oil to liquid hydrocarbon biofuel: process parameters and optimization study. <i>Environmental Science and Pollution Research</i> , 2022, 29, 51143-51152.	5.3	2
45	Characterization and Parametric Study on Mechanical Properties Enhancement in Biodegradable Chitosan-Reinforced Starch-Based Bioplastic Film. <i>Polymers</i> , 2022, 14, 278.	4.5	22
46	Adapting microalgae-based strategies for sustainable green cities. <i>Biotechnology Journal</i> , 2022, 17, e2100586.	3.5	4
47	Optimization of a vertical axis wind turbine with a deflector under unsteady wind conditions via Taguchi and neural network applications. <i>Energy Conversion and Management</i> , 2022, 254, 115209.	9.2	38
48	Optimization of hydrogen enrichment via palladium membrane in vacuum environments using Taguchi method and normalized regression analysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 42280-42292.	7.1	2
49	Design and feasibility study of novel swirler incorporated microbial fuel cell for enhancing power generation and domestic wastewater treatment. <i>Journal of Cleaner Production</i> , 2022, 337, 130382.	9.3	4
50	Pilot-scale study on downdraft gasification of municipal solid waste with mass and energy balance analysis. <i>Fuel</i> , 2022, 315, 123287.	6.4	14
51	Strategies for fuel property enhancement for second-generation multi-feedstock biodiesel. <i>Fuel</i> , 2022, 315, 123178.	6.4	17
52	A Comprehensive Review on the Emerging Roles of Nanofillers and Plasticizers towards Sustainable Starch-Based Bioplastic Fabrication. <i>Polymers</i> , 2022, 14, 664.	4.5	26
53	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3079-3115.	6.7	56
54	Biomass-derived biochar: From production to application in removing heavy metal-contaminated water. <i>Chemical Engineering Research and Design</i> , 2022, 160, 704-733.	5.6	86

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55	Valorization of animal manure via pyrolysis for bioenergy: A review. Journal of Cleaner Production, 2022, 343, 130965.	9.3	33
56	Pyrolysis of marine algae for biochar production for adsorption of Ciprofloxacin from aqueous solutions. Bioresource Technology, 2022, 351, 127043.	9.6	38
57	Review on aqueous graphene nanoplatelet Nanofluids: Preparation, Stability, thermophysical Properties, and applications in heat exchangers and solar thermal collectors. Applied Thermal Engineering, 2022, 210, 118342.	6.0	26
58	Impacts of the harvesting process on microalgae fatty acid profiles and lipid yields: Implications for biodiesel production. Renewable and Sustainable Energy Reviews, 2022, 161, 112410.	16.4	17
59	Pathways of lignocellulosic biomass deconstruction for biofuel and value-added products production. Fuel, 2022, 318, 123618.	6.4	32
60	Reactor design of methanol steam reforming by evolutionary computation and hydrogen production maximization by machine learning. International Journal of Energy Research, 2022, 46, 20685-20703.	4.5	4
61	Indigenous Materials as Catalyst Supports for Renewable Diesel Production in Malaysia. Energies, 2022, 15, 2835.	3.1	2
62	Energy-related approach for reduction of CO2 emissions: A critical strategy on the port-to-ship pathway. Journal of Cleaner Production, 2022, 355, 131772.	9.3	109
63	Second law based thermodynamic analysis of crushed gravel sand and biomass evaporator assisted solar still. Sustainable Energy Technologies and Assessments, 2022, 52, 102160.	2.7	8
64	Progress and Recent Trends in the Application of Nanoparticles as Low Carbon Fuel Additives—A State of the Art Review. Nanomaterials, 2022, 12, 1515.	4.1	14
65	Current advances in recovery and biorefinery of fucoxanthin from Phaeodactylum tricornutum. Algal Research, 2022, 65, 102735.	4.6	13
66	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives. Bioresource Technology, 2022, 355, 127303.	9.6	50
67	Oxidative torrefaction of microalga Nannochloropsis Oceanica activated by potassium carbonate for solid biofuel production. Environmental Research, 2022, 212, 113389.	7.5	12
68	Uniform mesoporous hierarchical nanosized zeolite Y for production of Hydrocarbon-like biofuel under H ₂ -Free deoxygenation. Fuel, 2022, 322, 124208.	6.4	3
69	A comprehensive review of thermogravimetric analysis in lignocellulosic and algal biomass gasification. Chemical Engineering Journal, 2022, 445, 136730.	12.7	38
70	Pyrolysis of oil palm wastes for bioenergy in Malaysia: A review. Renewable and Sustainable Energy Reviews, 2022, 164, 112554.	16.4	22
71	Biomass torrefaction: An overview of process and technology assessment based on global readiness level. Fuel, 2022, 324, 124663.	6.4	39
72	A review of intensification technologies for biodiesel production. , 2022, , 87-116.		18

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73	A review of atmospheric fine particulate matters: chemical composition, source identification and their variations in Beijing. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 4783-4807.	2.3	5
74	Thermal properties evaluation of paraffin wax enhanced with carbon nanotubes as latent heat thermal energy storage. <i>Journal of Energy Storage</i> , 2022, 52, 105027.	8.1	17
75	Progress and challenges in sustainable pyrolysis technology: Reactors, feedstocks and products. <i>Fuel</i> , 2022, 324, 124777.	6.4	21
76	Life cycle assessment of microalgal biorefinery: A state-of-the-art review. <i>Bioresource Technology</i> , 2022, 360, 127615.	9.6	27
77	Energy-saving drying strategy of spent coffee grounds for co-firing fuel by adding biochar for carbon sequestration to approach net zero. <i>Fuel</i> , 2022, 326, 124984.	6.4	17
78	Biodiesel quality assessment of microalgae cultivated mixotrophically on sugarcane bagasse. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102359.	2.7	8
79	Effects of torrefaction and water washing on the properties and combustion reactivity of various wastes. <i>International Journal of Energy Research</i> , 2021, 45, 8125-8139.	4.5	7
80	Biogas from food waste through anaerobic digestion: optimization with response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 227-239.	4.6	49
81	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. <i>Environmental Pollution</i> , 2021, 272, 115986.	7.5	165
82	Modern developmental aspects in the field of economical harvesting and biodiesel production from microalgae biomass. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110209.	16.4	136
83	Combustion performance and emissions from torrefied and water washed biomass using a kg-scale burner. <i>Journal of Hazardous Materials</i> , 2021, 402, 123468.	12.4	14
84	Sustainability of Palm Biodiesel in Transportation: a Review on Biofuel Standard, Policy and International Collaboration Between Malaysia and Colombia. <i>Bioenergy Research</i> , 2021, 14, 43-60.	3.9	65
85	Sustainable biofuel and bioenergy production from biomass waste residues using microwave-assisted heating: A comprehensive review. <i>Chemical Engineering Journal</i> , 2021, 403, 126233.	12.7	192
86	Prospect of biobased antiviral face mask to limit the coronavirus outbreak. <i>Environmental Research</i> , 2021, 192, 110294.	7.5	80
87	Reduction of particulate matter and volatile organic compounds in biorefineries: A state-of-the-art review. <i>Journal of Hazardous Materials</i> , 2021, 403, 123955.	12.4	24
88	Pyrolysis kinetics of potassium-impregnated rubberwood analyzed by evolutionary computation. <i>Bioresource Technology</i> , 2021, 319, 124145.	9.6	8
89	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
90	Synthesis pathway and combustion mechanism of a sustainable biofuel 2,5-Dimethylfuran: Progress and prospective. <i>Fuel</i> , 2021, 286, 119337.	6.4	34

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91	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
92	Thermal-Fenton mechanism with sonoprocessing for rapid non-catalytic transesterification of microalgal to biofuel production. Chemical Engineering Journal, 2021, 408, 127264.	12.7	17
93	Recent advances in biodiesel production from agricultural products and microalgae using ionic liquids: Opportunities and challenges. Energy Conversion and Management, 2021, 228, 113647.	9.2	114
94	Multifaceted roles of microalgae in the application of wastewater biotreatment: A review. Environmental Pollution, 2021, 269, 116236.	7.5	231
95	Critical review on third generation micro algae biodiesel production and its feasibility as future bioenergy for IC engine applications. Energy Conversion and Management, 2021, 228, 113655.	9.2	96
96	Effect of wet torrefaction on pyrolysis kinetics and conversion of microalgae carbohydrates, proteins, and lipids. Energy Conversion and Management, 2021, 227, 113609.	9.2	31
97	Synergistic interaction and biochar improvement over co-torrefaction of intermediate waste epoxy resins and fir. Environmental Technology and Innovation, 2021, 21, 101218.	6.1	10
98	Solâ€gel synthesized lithium orthosilicate as a reusable solid catalyst for biodiesel production. International Journal of Energy Research, 2021, 45, 6239-6249.	4.5	5
99	Optimization of ultrasound-assisted oil extraction from Canarium odontophyllum kernel as a novel biodiesel feedstock. Journal of Cleaner Production, 2021, 288, 125563.	9.3	59
100	Microalgae cultivation in wastewater and potential processing strategies using solvent and membrane separation technologies. Journal of Water Process Engineering, 2021, 39, 101701.	5.6	45
101	Progress in biomass torrefaction: Principles, applications and challenges. Progress in Energy and Combustion Science, 2021, 82, 100887.	31.2	429
102	Techniques of lipid extraction from microalgae for biofuel production: a review. Environmental Chemistry Letters, 2021, 19, 231-251.	16.2	61
103	Progress on Modified Calcium Oxide Derived Waste-Shell Catalysts for Biodiesel Production. Catalysts, 2021, 11, 194.	3.5	22
104	Multivariate optimisation study and life cycle assessment of microwave-induced pyrolysis of horse manure for waste valorisation and management. Energy, 2021, 216, 119194.	8.8	28
105	Techniques to improve the stability of biodiesel: a review. Environmental Chemistry Letters, 2021, 19, 2209-2236.	16.2	43
106	A multidisciplinary review of<i>Tetradesmus obliquus</i>: a microalga suitable for largeâ€scale biomass production and emerging environmental applications. Reviews in Aquaculture, 2021, 13, 1594-1618.	9.0	66
107	Prospects of Bioenergy Production From Organic Waste Using Anaerobic Digestion Technology: A Mini Review. Frontiers in Energy Research, 2021, 9, .	2.3	64
108	Integration of Biomass Torrefaction and Gasification based on Biomass Classification: A Review. Energy Technology, 2021, 9, 2001108.	3.8	10

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109	Prospects and development of algal-bacterial biotechnology in environmental management and protection. <i>Biotechnology Advances</i> , 2021, 47, 107684.	11.7	83
110	State-of-the-Art of Strategies to Reduce Exhaust Emissions from Diesel Engine Vehicles. <i>Energies</i> , 2021, 14, 1766.	3.1	17
111	Engine performance and emission characteristics of palm biodiesel blends with graphene oxide nanoplatelets and dimethyl carbonate additives. <i>Journal of Environmental Management</i> , 2021, 282, 111917.	7.8	86
112	Microalgae Cultivation in Palm Oil Mill Effluent (POME) Treatment and Biofuel Production. <i>Sustainability</i> , 2021, 13, 3247.	3.2	83
113	Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues. <i>Biotechnology for Biofuels</i> , 2021, 14, 87.	6.2	176
114	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
115	Simultaneous implementation of sludge dewatering and solid biofuel production by microwave torrefaction. <i>Environmental Research</i> , 2021, 195, 110775.	7.5	19
116	Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production. <i>Sustainability</i> , 2021, 13, 4246.	3.2	9
117	Comparison between airborne ultrasound and contact ultrasound to intensify air drying of blackberry: Heat and mass transfer simulation, energy consumption and quality evaluation. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105410.	8.2	79
118	Enhancement of Adsorption-Photocatalysis of Malachite Green Using Oil Palm Biomass-Derived Activated Carbon/ Titanium Dioxide Composite. <i>Current Analytical Chemistry</i> , 2021, 17, 603-617.	1.2	4
119	Application of ultrasonication at different microbial growth stages during apple juice fermentation by <i>Lactobacillus plantarum</i> : Investigation on the metabolic response. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105486.	8.2	32
120	Solid biofuel production from spent coffee ground wastes: Process optimisation, characterisation and kinetic studies. <i>Fuel</i> , 2021, 292, 120309.	6.4	34
121	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , 2021, 296, 126589.	9.3	628
122	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. <i>Chemosphere</i> , 2021, 271, 129510.	8.2	33
123	Optimization of Fuel Injection Parameters of <i>Moringa oleifera</i> Biodiesel-Diesel Blend for Engine-Out-Responses Improvements. <i>Symmetry</i> , 2021, 13, 982.	2.2	10
124	Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105204.	6.7	45
125	Two-step thermodegradation kinetics of cellulose, hemicelluloses, and lignin under isothermal torrefaction analyzed by particle swarm optimization. <i>Energy Conversion and Management</i> , 2021, 238, 114116.	9.2	46
126	Fermentation of blueberry and blackberry juices using <i>Lactobacillus plantarum</i> , <i>Streptococcus thermophilus</i> and <i>Bifidobacterium bifidum</i> : Growth of probiotics, metabolism of phenolics, antioxidant capacity in vitro and sensory evaluation. <i>Food Chemistry</i> , 2021, 348, 129083.	8.2	115

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127	Valorisation of medical waste through pyrolysis for a cleaner environment: Progress and challenges. Environmental Pollution, 2021, 279, 116934.	7.5	77
128	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. Energies, 2021, 14, 3732.	3.1	50
129	Performance Analysis of a Printed Circuit Heat Exchanger with a Novel Mirror-Symmetric Channel Design. Energies, 2021, 14, 4252.	3.1	6
130	Bio-Derived Catalysts: A Current Trend of Catalysts Used in Biodiesel Production. Catalysts, 2021, 11, 812.	3.5	25
131	Optimization and analysis of syngas production from methane and CO ₂ via Taguchi approach, response surface methodology (RSM) and analysis of variance (ANOVA). Fuel, 2021, 296, 120642.	6.4	29
132	State-of-the-Art of Establishing Test Procedures for Real Driving Gaseous Emissions from Light- and Heavy-Duty Vehicles. Energies, 2021, 14, 4195.	3.1	17
133	Impacts of COVID-19 pandemic on the global energy system and the shift progress to renewable energy: Opportunities, challenges, and policy implications. Energy Policy, 2021, 154, 112322.	8.8	260
134	Pore volume upgrade of biochar from spent coffee grounds by sodium bicarbonate during torrefaction. Chemosphere, 2021, 275, 129999.	8.2	21
135	An Overview of Biodiesel Production via Calcium Oxide Based Catalysts: Current State and Perspective. Energies, 2021, 14, 3950.	3.1	44
136	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. Journal of Environmental Chemical Engineering, 2021, 9, 105657.	6.7	15
137	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
138	Oxidative torrefaction performance of microalga Nannochloropsis Oceanica towards an upgraded microalgal solid biofuel. Journal of Biotechnology, 2021, 338, 81-90.	3.8	10
139	Micro (nano) plastic pollution: The ecological influence on soil-plant system and human health. Science of the Total Environment, 2021, 788, 147815.	8.0	99
140	Energy balance of torrefied microalgal biomass with production upscale approached by life cycle assessment. Journal of Environmental Management, 2021, 294, 112992.	7.8	5
141	Valorization of sorghum distillery residue to produce bioethanol for pollution mitigation and circular economy. Environmental Pollution, 2021, 285, 117196.	7.5	15
142	Editorial: "Torrefaction Pretreatment for Biomass Upgrading: Fundamentals and Technologies" Frontiers in Energy Research, 2021, 9, .	2.3	2
143	Conversion of bio-jet fuel from palm kernel oil and its blending effect with jet A-1 fuel. Energy Conversion and Management, 2021, 243, 114311.	9.2	12
144	Comparative indexes, fuel characterization and thermogravimetric- Fourier transform infrared spectrometer-mass spectrogram (TG-FTIR-MS) analysis of microalga Nannochloropsis Oceanica under oxidative and inert torrefaction. Energy, 2021, 230, 120824.	8.8	20

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145	Effect of eggshell- and homo-type Ni/Al ₂ O ₃ catalysts on the pyrolysis of food waste under CO ₂ atmosphere. <i>Journal of Environmental Management</i> , 2021, 294, 112959.	7.8	16
146	Green additive to upgrade biochar from spent coffee grounds by torrefaction for pollution mitigation. <i>Environmental Pollution</i> , 2021, 285, 117244.	7.5	13
147	Independent parallel pyrolysis kinetics of extracted proteins and lipids as well as model carbohydrates in microalgae. <i>Applied Energy</i> , 2021, 300, 117372.	10.1	28
148	A review on application of artificial neural network (ANN) for performance and emission characteristics of diesel engine fueled with biodiesel-based fuels. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101416.	2.7	94
149	Utilization of microalgae for bio-jet fuel production in the aviation sector: Challenges and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111396.	16.4	58
150	Greenhouse gases utilization: A review. <i>Fuel</i> , 2021, 301, 121017.	6.4	153
151	Mitigation of CO ₂ emissions by transforming to biofuels: Optimization of biofuels production processes. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111487.	16.4	15
152	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021, 342, 126067.	9.6	44
153	Insight into the recent advances of microwave pretreatment technologies for the conversion of lignocellulosic biomass into sustainable biofuel. <i>Chemosphere</i> , 2021, 281, 130878.	8.2	129
154	Acid-based lignocellulosic biomass biorefinery for bioenergy production: Advantages, application constraints, and perspectives. <i>Journal of Environmental Management</i> , 2021, 296, 113194.	7.8	82
155	A biorefinery approach for high value-added bioproduct (astaxanthin) from alga <i>Haematococcus</i> sp. and residue pyrolysis for biochar synthesis and metallic iron production from hematite (Fe ₂ O ₃). <i>Fuel</i> , 2021, 304, 121150.	6.4	9
156	Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111645.	16.4	55
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