

Competitive liquid biofuels from biomass

Applied Energy

88, 17-28

DOI: [10.1016/j.apenergy.2010.07.016](https://doi.org/10.1016/j.apenergy.2010.07.016)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Advances in C=O Bond Transformations in Lignin-Derived Compounds for Biofuels Production. Journal of Physical Chemistry Letters, 2011, 2, 2280-2287.	4.6	107
2	Acid-Chlorite Pretreatment and Liquefaction of Cornstalk in Hot-Compressed Water for Bio-oil Production. Journal of Agricultural and Food Chemistry, 2011, 59, 10524-10531.	5.2	31
3	Determination of trace elements in biodiesel and vegetable oil by inductively coupled plasma optical emission spectrometry following alcohol dilution. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 733-739.	2.9	72
4	A review of catalytic upgrading of bio-oil to engine fuels. Applied Catalysis A: General, 2011, 407, 1-19.	4.3	1,414
5	Conversion of carbohydrates biomass into levulinate esters using heterogeneous catalysts. Applied Energy, 2011, 88, 4590-4596.	10.1	162
6	Dual role of microalgae: Phycoremediation of domestic wastewater and biomass production for sustainable biofuels production. Applied Energy, 2011, 88, 3411-3424.	10.1	915
7	Biodiesel from oilgae, biofixation of carbon dioxide by microalgae: A solution to pollution problems. Applied Energy, 2011, 88, 3541-3547.	10.1	170
8	The scientometric evaluation of the research on the algae and bio-energy. Applied Energy, 2011, 88, 3532-3540.	10.1	112
9	Dual-injection: The flexible, bi-fuel concept for spark-ignition engines fuelled with various gasoline and biofuel blends. Applied Energy, 2011, 88, 2305-2314.	10.1	131
10	Biofuels from algae for sustainable development. Applied Energy, 2011, 88, 3473-3480.	10.1	427
11	Nano-magnetic catalyst KF/CaO-Fe ₃ O ₄ for biodiesel production. Applied Energy, 2011, 88, 2685-2690.	10.1	270
12	Net energy analysis of the production of biodiesel and biogas from the microalgae: Haematococcus pluvialis and Nannochloropsis. Applied Energy, 2011, 88, 3507-3514.	10.1	239
13	Disruption of sugarcane bagasse lignocellulosic structure by means of dilute sulfuric acid pretreatment with microwave-assisted heating. Applied Energy, 2011, 88, 2726-2734.	10.1	258
14	Thermogravimetric analysis of microalgae combustion under different oxygen supply concentrations. Applied Energy, 2011, 88, 3189-3196.	10.1	147
15	Effect of physico-chemical parameters on biohydrogen production and growth characteristics by batch culture of Rhodobacter sphaeroides CIP 60.6. Applied Energy, 2011, 88, 2130-2135.	10.1	40
16	Developments in biobutanol production: New insights. Applied Energy, 2011, 88, 1999-2012.	10.1	421
17	A general source-sink model with inoperability constraints for robust energy sector planning. Applied Energy, 2011, 88, 3759-3764.	10.1	31
18	Response Surface Optimization of Concentrated Sulfuric Acidic Hydrolysis of Poplar Sawdust. Advanced Materials Research, 0, 236-238, 259-263.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Breeding crop plants with deep roots: their role in sustainable carbon, nutrient and water sequestration. Annals of Botany, 2011, 108, 407-418.	2.9	313
20	Lanthanum Modified Catalyst for Efficient Supply of Hydrogen through Dehydrogenation of Organic Chemical Hydrides. Advanced Materials Research, 2011, 287-290, 2110-2115.	0.3	0
21	Production of High Heat Value Fuels by Microwave Pyrolysis of Microalgae Oil Soap under Nitrogen Environments. Advanced Materials Research, 0, 347-353, 2545-2550.	0.3	0
22	Production of renewable hydrocarbon fuels—Thermochemical behavior of fatty acid soap decarboxylation during microwave-assisted pyrolysis. , 2011, , .		0
23	Preparation of High Heating Value Gas, High Quality Bio-Oil and Added Value Carbon Materials from Caragana Pyrolyzed via Super-High Temperature Steam. Advanced Materials Research, 0, 512-515, 2152-2161.	0.3	0

24

#	ARTICLE	IF	CITATIONS
38	Wood, liquefied in polyhydroxy alcohols as a fuel for gas turbines. <i>Applied Energy</i> , 2012, 99, 40-49.	10.1	49
39	Heteropolyacid catalyzed conversion of fructose, sucrose, and inulin to 5-ethoxymethylfurfural, a liquid biofuel candidate. <i>Applied Energy</i> , 2012, 99, 80-84.	10.1	131
40	Kinetic modelling of batch ethanol production from sugar beet raw juice. <i>Applied Energy</i> , 2012, 99, 192-197.	10.1	84
41	Conversion of coffee residue waste into bioethanol with using popping pretreatment. <i>Bioresource Technology</i> , 2012, 125, 132-137.	9.6	87
42	Usability of terebinth (<i>Pistacia terebinthus</i> L.) fruits as an energy source for diesel-like fuels production. <i>Energy Conversion and Management</i> , 2012, 64, 433-440.	9.2	4
43	Medium-temperature conversion of biomass and wastes into liquid products, a review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6455-6475.	16.4	54
44	Negative carbon intensity of renewable energy technologies involving biomass or carbon dioxide as inputs. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6507-6521.	16.4	143
45	Hydrothermal Oxidation of Industrial Alkali Lignin for Producing Small Molecular Organic Acids. <i>Advanced Materials Research</i> , 0, 608-609, 1399-1406.	0.3	2
46	Supercritical Water Gasification of Municipal Sludge: A Novel Approach to Waste Treatment and Energy Recovery. , 0, , .		9
47	Is the Use of Renewable Energy Sources an Answer to the Problems of Global Warming and Pollution?. <i>Critical Reviews in Environmental Science and Technology</i> , 2012, 42, 99-154.	12.8	73
48	Direct formation of gasoline hydrocarbons from cellulose by hydrothermal conversion with in situ hydrogen. <i>Biomass and Bioenergy</i> , 2012, 47, 228-239.	5.7	12
49	Performance, emission and combustion characteristics of an indirect injection (IDI) multi-cylinder compression ignition (CI) engine operating on neat jatropha and karanj oils preheated by jacket water. <i>Biomass and Bioenergy</i> , 2012, 46, 332-342.	5.7	41
50	Modeling Analysis on Germination and Seedling Growth Using Ultrasound Seed Pretreatment in Switchgrass. <i>PLoS ONE</i> , 2012, 7, e47204.	2.5	25
51	Spray Parameter Comparison between Diesel and Vegetable Oils for Non-Evaporating Conditions. , 2012, , .		9
52	Dual-Injection as a Knock Mitigation Strategy Using Pure Ethanol and Methanol. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 5, 772-784.	0.2	57
53	Biodiesel production over thermal activated cerium modified Mg-Al hydrotalcites. <i>Energy</i> , 2012, 41, 344-353.	8.8	67
54	Subcritical co-solvents extraction of lipid from wet microalgae pastes of <i>Nannochloropsis</i> sp.. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 205-212.	1.5	75
55	Advances in the Catalytic Production of Valuable Levulinic Acid Derivatives. <i>ChemCatChem</i> , 2012, 4, 1230-1237.	3.7	185

#	ARTICLE	IF	CITATIONS
56	Adding value to the Brazilian sisal: acid hydrolysis of its pulp seeking production of sugars and materials. <i>Cellulose</i> , 2012, 19, 975-992.	4.9	18
57	Biodiesel production by soybean oil methanolysis over SrO/MgO catalysts. <i>Fuel Processing Technology</i> , 2012, 102, 146-155.	7.2	44
58	Catalytic steam reforming of bio-oil. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6447-6472.	7.1	349
59	Characterisation of engine-out responses from a light-duty diesel engine fuelled with palm methyl ester (PME). <i>Applied Energy</i> , 2012, 90, 58-67.	10.1	97
60	A fuzzy multi-regional input-output optimization model for biomass production and trade under resource and footprint constraints. <i>Applied Energy</i> , 2012, 90, 154-160.	10.1	68
61	A review analyzing the industrial biodiesel production practice starting from vegetable oil refining. <i>Applied Energy</i> , 2012, 92, 109-132.	10.1	207
62	Hydrothermal liquefaction of cellulose to bio-oil under acidic, neutral and alkaline conditions. <i>Applied Energy</i> , 2012, 92, 234-239.	10.1	218
63	Hydrolysis characteristics of sugarcane bagasse pretreated by dilute acid solution in a microwave irradiation environment. <i>Applied Energy</i> , 2012, 93, 237-244.	10.1	179
64	Hydrothermal pretreatment of rice straw biomass: A potential and promising method for enhanced methane production. <i>Applied Energy</i> , 2012, 94, 129-140.	10.1	242
65	Damköhler number as a descriptive parameter in methanol steam reforming and its integration with absorption heat pump system. <i>Applied Energy</i> , 2012, 94, 141-147.	10.1	18
66	Study on structure and pyrolysis behavior of lignin derived from corncob acid hydrolysis residue. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 93, 153-159.	5.5	67
67	Deactivating species in the transformation of crude bio-oil with methanol into hydrocarbons on a HZSM-5 catalyst. <i>Journal of Catalysis</i> , 2012, 285, 304-314.	6.2	175
68	Towards 40% efficiency with BMEP exceeding 30bar in directly injected, turbocharged, spark ignition ethanol engines. <i>Energy Conversion and Management</i> , 2012, 57, 154-166.	9.2	37
69	Pyrolytic characteristics of biomass acid hydrolysis residue rich in lignin. <i>Bioresource Technology</i> , 2012, 103, 470-476.	9.6	27
70	Recent advances in membrane technologies for biorefining and bioenergy production. <i>Biotechnology Advances</i> , 2012, 30, 817-858.	11.7	193
71	Total lipid and fatty acid composition of seaweeds for the selection of species for oil-based biofuel and bioproducts. <i>GCB Bioenergy</i> , 2012, 4, 919-930.	5.6	165
72	State of the art of biofuels from pure plant oil. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4056-4070.	16.4	108
73	The effects of water on biodiesel production and refining technologies: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3456-3470.	16.4	229

#	ARTICLE	IF	CITATIONS
74	Use of bioethanol for biodiesel production. Progress in Energy and Combustion Science, 2012, 38, 283-301.	31.2	98
75	Saccharification of Brazilian sisal pulp: evaluating the impact of mercerization on non-hydrolyzed pulp and hydrolysis products. Cellulose, 2012, 19, 351-362.	4.9	19
76	Pyrolysis liquids and gases as alternative fuels in internal combustion engines – A review. Renewable and Sustainable Energy Reviews, 2013, 21, 165-189.	16.4	216
77	Anaerobic digestion for treatment of stillage from cellulosic bioethanol production. Bioresource Technology, 2013, 144, 387-395.	9.6	36
78	Enhanced sweet sorghum stalk to ethanol by fungus <i>Mucor indicus</i> using solid state fermentation followed by simultaneous saccharification and fermentation. Industrial Crops and Products, 2013, 49, 580-585.	5.2	34
79	Conversion of fructose into 5-hydroxymethylfurfural and alkyl levulinates catalyzed by sulfonic acid-functionalized carbon materials. Green Chemistry, 2013, 15, 2895.	9.0	188
80	Optimal processing pathway for the production of biodiesel from microalgal biomass: A superstructure based approach. Computers and Chemical Engineering, 2013, 58, 305-314.	3.8	65
81	Characterization and Combustion of Crude Thermal Deoxygenation Oils Derived From Hydrolyzed Woody Biomass. Energy & Fuels, 2013, 27, 5246-5252.	5.1	13
82	Preparation of Sulfonated Carbons from Rice Husk and Their Application in Catalytic Conversion of Glycerol. ACS Sustainable Chemistry and Engineering, 2013, 1, 1381-1389.	6.7	81
83	A One-compartment direct glucose alkaline fuel cell with methyl viologen as electron mediator. Applied Energy, 2013, 106, 176-183.	10.1	54
84	Ethanol and biogas production from birch by NMMO pretreatment. Biomass and Bioenergy, 2013, 49, 95-101.	5.7	54
85	Properties of Palm Pressed Fibre for Metal Forming Lubricant Applications. Procedia Engineering, 2013, 68, 130-137.	1.2	8
86	A comprehensive review of bio-diesel as alternative fuel for compression ignition engines. Renewable and Sustainable Energy Reviews, 2013, 28, 410-424.	16.4	81
87	Steam reforming of ethanol: Effects of support and additives on Ni-based catalysts. International Journal of Hydrogen Energy, 2013, 38, 15105-15118.	7.1	59
88	Towards biofuel combustion with an easily extruded clay as a natural catalyst. Applied Energy, 2013, 107, 149-156.	10.1	11
89	Profit and policy implications of producing biodiesel-ethanol-diesel fuel blends to specification. Applied Energy, 2013, 104, 936-944.	10.1	54
90	Heterogeneous basic catalysis for upgrading of biofuels. Catalysis Today, 2013, 218-219, 143-147.	4.4	18
91	Nitrogen Limitation in <i>Neochloris oleoabundans</i> : A Reassessment of Its Effect on Cell Growth and Biochemical Composition. Applied Biochemistry and Biotechnology, 2013, 171, 1775-1791.	2.9	18

#	ARTICLE	IF	CITATIONS
92	Comparative techno-economic analysis of biomass fuelled combined heat and power for commercial buildings. Applied Energy, 2013, 112, 518-525.	10.1	73
93	Liquefaction of Cornstalk in Subcritical Cyclohexane with Zeolite. Chemical Engineering and Technology, 2013, 36, 459-466.	1.5	5
94	Integration of bioethanol as an in-process material in biorefineries using mass pinch analysis. Applied Energy, 2013, 104, 517-526.	10.1	57
95	Hydrogenation of rapeseed oil for production of liquid bio-chemicals. Applied Energy, 2013, 102, 272-282.	10.1	36
96	Optimization of Hydrothermal Pretreatment of Lignocellulosic Biomass in the Bioethanol Production Process. ChemSusChem, 2013, 6, 110-122.	6.8	264
97	Feasibility of rice straw as alternate substrate for biobutanol production. Applied Energy, 2013, 103, 32-38.	10.1	105
98	Biodiesel from microalgae: A critical evaluation from laboratory to large scale production. Applied Energy, 2013, 103, 444-467.	10.1	786
99	A review on novel processes of biodiesel production from waste cooking oil. Applied Energy, 2013, 104, 683-710.	10.1	576
100	Deoxy-liquefaction of switchgrass in supercritical water with calcium formate as an in-situ hydrogen donor. Bioresource Technology, 2013, 143, 575-583.	9.6	21
101	Microalgal cultivation in wastewater from the fermentation effluent in Riboflavin (B2) manufacturing for biodiesel production. Bioresource Technology, 2013, 143, 499-504.	9.6	41
102	Production of high carbon number hydrocarbon fuels from a lignin-derived 1,4-phenolic dimer, benzyl phenyl ether, via isomerization of ether to alcohols on high-surface-area silica-alumina aerogel catalysts. Applied Catalysis B: Environmental, 2013, 142-143, 668-676.	20.2	58
103	Steam reforming of light oxygenates. Catalysis Science and Technology, 2013, 3, 3292.	4.1	31
104	Gaseous and particulate matter emissions of biofuel blends in dual-injection compared to direct-injection and port injection. Applied Energy, 2013, 105, 252-261.	10.1	48
105	The Effects of Holding Time and the Sweeping Nitrogen Gas Flowrates on the Pyrolysis of EFB using a Fixed-Bed Reactor. Procedia Engineering, 2013, 53, 185-191.	1.2	52
106	Hydroprocessing challenges in biofuels production. Catalysis Today, 2013, 217, 13-56.	4.4	242
107	Characterization of ionic liquid pretreated aspen wood using semi-quantitative methods for ethanol production. Carbohydrate Polymers, 2013, 96, 440-449.	10.2	58
108	Techno-economic assessment of carbon-negative algal biodiesel for transport solutions. Applied Energy, 2013, 106, 262-274.	10.1	49
109	Sustainability of biodiesel production as vehicular fuel in Indian perspective. Renewable and Sustainable Energy Reviews, 2013, 25, 251-259.	16.4	36

#	ARTICLE	IF	CITATIONS
110	Progress in catalytic naphtha reforming process: A review. Applied Energy, 2013, 109, 79-93.	10.1	191
111	Highly Efficient Conversion of Cellulose to Bio-Oil in Hot-Compressed Water with Ultrasonic Pretreatment. Industrial & Engineering Chemistry Research, 2013, 52, 586-593.	3.7	25
112	An overview of the behaviour of biomass during combustion: Part I. Phase-mineral transformations of organic and inorganic matter. Fuel, 2013, 112, 391-449.	6.4	365
113	Exhaust emissions from liquid fuel micro gas turbine fed with diesel oil, biodiesel and vegetable oil. Applied Energy, 2013, 101, 349-356.	10.1	77
114	Bioethanol production from mandarin (Citrus unshiu) peel waste using popping pretreatment. Applied Energy, 2013, 102, 204-210.	10.1	104
115	Optimal operational adjustment in multi-functional energy systems in response to process inoperability. Applied Energy, 2013, 102, 492-500.	10.1	47
116	Operating condition optimization of corncob hydrothermal conversion for bio-oil production. Applied Energy, 2013, 103, 350-357.	10.1	65
117	Life Cycle Environmental and Economic Tradeoffs of Using Fast Pyrolysis Products for Power Generation. Energy & Fuels, 2013, 27, 2578-2587.	5.1	48
118	Operational flexibility: A key factor in the development of biofuel technologies. Sustainable Energy Technologies and Assessments, 2013, 1, 28-33.	2.7	4
119	Conversion of Cornstalk to Bio-oil in Hot-Compressed Water: Effects of Ultrasonic Pretreatment on the Yield and Chemical Composition of Bio-oil, Carbon Balance, and Energy Recovery. Journal of Agricultural and Food Chemistry, 2013, 61, 7574-7582.	5.2	12
120	Understanding the Mechanism of Cypress Liquefaction in Hot-Compressed Water through Characterization of Solid Residues. Energies, 2013, 6, 1590-1603.	3.1	40
121	Production of biolubricant from Jatropha curcas seed oil. Journal of Chemical Engineering and Materials Science, 2013, 4, 72-79.	1.9	48
122	Biomaterials Availability: Potential for Bioethanol Production. Advanced Materials Research, 2013, 701, 243-248.	0.3	7
123	²Biodiesel Preparation from <i>Styrax Confusus</i> Hemsl. Oil Catalyzed by Magnetic Catalyst S₂O₈²-²-ZrO₂/Fe₃O₄. Advanced Materials Research. 0. 805-806, 247-250.	0.3	9
124	Experimental Investigation on Biodiesel-Ethanol-Diesel Blends Operating with a Diesel Engine. Applied Mechanics and Materials, 0, 465-466, 221-225.	0.2	1
125	Fiji's biofuel industry: perched for a soaring take-off?. Biofuels, 2013, 4, 587-589.	2.4	2
126	Superstructure optimization of biodiesel production from microalgal biomass. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 111-116.	0.4	3
127	A Novel Wild-Type Saccharomyces cerevisiae Strain TSH1 in Scaling-Up of Solid-State Fermentation of Ethanol from Sweet Sorghum Stalks. PLoS ONE, 2014, 9, e94480.	2.5	23

#	ARTICLE	IF	CITATIONS
128	An Experimental Investigation of Palm Pressed Fibre Waste as Lubricant in Strip Drawing. Jurnal Teknologi (Sciences and Engineering), 2014, 66, .	0.4	0
129	Hydrothermal Treatment and Enzymatic Saccharification of Corncobs. BioResources, 2014, 9, .	1.0	11
130	Biodiesel in Brazil: A Market Analysis and Its Economic Effects. Journal of Agricultural Science, 2014, 6, .	0.2	1
131	Supercritical Water Gasification of Organic Wastes for Energy Generation. , 2014, , 191-200.		4
132	Transport sector in Ireland: can 2020 national policy targets drive indigenous biofuel production to success?. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 310-322.	4.1	5
133	Effect of the composition and acidity of supported sulfide catalysts on their activity and deactivation in guaiacol hydrodeoxygenation. Catalysis in Industry, 2014, 6, 338-347.	0.7	10
134	Production, Upgrading and Analysis of Bio-oils Derived from Lignocellulosic Biomass. , 2014, , 1-26.		2
135	Sustainability and environmental impact of ethanol as a biofuel. Reviews in Chemical Engineering, 2014, 30, .	4.4	24
136	Effects of the Heat Carrier's Temperature and Particle Size on the Pyrolysis of <i>Imperata cylindrica</i> in a Transported Bed Reactor. Applied Mechanics and Materials, 0, 625, 612-615.	0.2	0
137	Emission Evaluation of Different Types of Liquefied Wood. Strojniski Vestnik/Journal of Mechanical Engineering, 2014, 60, 221-231.	1.1	12
138	Bio-oil via catalytic liquefaction of unhydrolyzed solids in aqueous medium. Biofuels, 2014, 5, 431-446.	2.4	6
139	The impact of biodiesel policy over raw material acquisition: a study about Brazilian Biodiesel National Programme. International Journal of Global Energy Issues, 2014, 37, 205.	0.4	1
140	CHAPTER 11. Hydrogenolysis of Lignocellulosic Biomass with Carbon Monoxide or Formate in Pressurized Hot Water. RSC Energy and Environment Series, 2014, , 242-252.	0.5	1
141	Conversion of Guaiacol on Noble Metal Catalysts: Reaction Performance and Deactivation Studies. Industrial & Engineering Chemistry Research, 2014, 53, 18658-18667.	3.7	140
142	A seawater-based open and continuous process for polyhydroxyalkanoates production by recombinant <i>Halomonas campaniensis</i> LS21 grown in mixed substrates. Biotechnology for Biofuels, 2014, 7, .	6.2	142
143	A one-dimensional and comprehensive two-dimensional gas chromatography study of the oil and the bio-oil of the residual cakes from the seeds of <i>Crambe abyssinica</i> . Industrial Crops and Products, 2014, 52, 8-16.	5.2	41
144	Hydroprocessing of rapeseed pyrolysis bio-oil over NiMo/Al ₂ O ₃ catalyst. Catalysis Today, 2014, 223, 54-65.	4.4	15
145	A comprehensive literature review of bio-fuel performance in internal combustion engine and relevant costs involvement. Renewable and Sustainable Energy Reviews, 2014, 30, 29-44.	16.4	126

#	ARTICLE	IF	CITATIONS
146	Co-liquefaction of swine manure and mixed-culture algal biomass from a wastewater treatment system to produce bio-crude oil. <i>Applied Energy</i> , 2014, 128, 209-216.	10.1	186
147	Biodiesel production from biobutanol. Improvement of cold flow properties. <i>Chemical Engineering Journal</i> , 2014, 238, 234-241.	12.7	48
148	Anaerobic digestion of vinasse from sugarcane biorefineries in Brazil from energy, environmental, and economic perspectives: Profit or expense?. <i>Applied Energy</i> , 2014, 113, 825-835.	10.1	238
149	Catalytic production of isosorbide from cellulose over mesoporous niobium phosphate-based heterogeneous catalysts via a sequential process. <i>Applied Catalysis A: General</i> , 2014, 469, 108-115.	4.3	57
150	Review of analytical strategies in the production and upgrading of bio-oils derived from lignocellulosic biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 55-74.	5.5	179
151	Biomass and Bioenergy. , 2014, , .		20
152	Corrosion Considerations for Thermochemical Biomass Liquefaction Process Systems in Biofuel Production. <i>Jom</i> , 2014, 66, 2583-2592.	1.9	16
153	One-pot Aldol Condensation and Hydrodeoxygenation of Biomass-derived Carbonyl Compounds for Biodiesel Synthesis. <i>ChemSusChem</i> , 2014, 7, 2816-2820.	6.8	64
154	Use of Agroindustrial Residues for Bioethanol Production. , 2014, , 49-56.		5
155	Catalytic transformations of acids, aldehydes, and phenols in bio-oil to alcohols and esters. <i>Fuel</i> , 2014, 135, 55-62.	6.4	28
156	Techno-economic analysis of liquid fuel production from woody biomass via hydrothermal liquefaction (HTL) and upgrading. <i>Applied Energy</i> , 2014, 129, 384-394.	10.1	281
157	Current and future economic performance of first and second generation biofuels in developing countries. <i>Applied Energy</i> , 2014, 135, 115-141.	10.1	61
158	Catalytic fast pyrolysis of lignocellulosic biomass. <i>Chemical Society Reviews</i> , 2014, 43, 7594-7623.	38.1	864
159	Synergistic Catalysis between Pd and Fe in Gas Phase Hydrodeoxygenation of <i>m</i> -Cresol. <i>ACS Catalysis</i> , 2014, 4, 3335-3345.	11.2	173
160	Catalytic effects of ferric chloride and sodium hydroxide on supercritical liquefaction of thistle (<i>Cirsium yildizianum</i>). <i>Journal of Supercritical Fluids</i> , 2014, 95, 298-317.	3.2	10
161	Reduced Kinetic Schemes of Complex Reaction Systems: Fossil and Biomass-derived Transportation Fuels. <i>International Journal of Chemical Kinetics</i> , 2014, 46, 512-542.	1.6	401
162	Microturbine combustion and emission characterisation of waste polymer-derived fuels. <i>Energy</i> , 2014, 77, 226-234.	8.8	20
163	Application of bio-oils from lignocellulosic biomass to transportation, heat and power generation—A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 1108-1125.	16.4	119

#	ARTICLE	IF	CITATIONS
164	Clean solid biofuel production from high moisture content waste biomass employing hydrothermal treatment. <i>Applied Energy</i> , 2014, 131, 345-367.	10.1	312
165	Kinetics of thermal degradation of macromolecular petroleum compounds in the presence of fatty acid triglycerides. <i>Petroleum Chemistry</i> , 2014, 54, 111-119.	1.4	4
166	Application of Micro- or Small-Scale Biomass-Derived Fuel System for Power Generation. , 2014, , 339-367.		3
167	Efficient production of 5-hydroxymethylfurfural and alkyl levulinate from biomass carbohydrate using ionic liquid-based polyoxometalate salts. <i>RSC Advances</i> , 2014, 4, 4194-4202.	3.6	63
168	Cornstalk liquefaction in methanol/water mixed solvents. <i>Fuel Processing Technology</i> , 2014, 117, 1-7.	7.2	41
169	Line shape analysis of the Raman spectra from pure and mixed biofuels esters compounds. <i>Fuel</i> , 2014, 115, 118-125.	6.4	51
170	Gaseous and particulate emissions of a micro gas turbine fuelled by straight vegetable oilâ€“kerosene blends. <i>Experimental Thermal and Fluid Science</i> , 2014, 56, 16-22.	2.7	38
171	Pervaporation of ethanol produced from banana waste. <i>Waste Management</i> , 2014, 34, 1501-1509.	7.4	56
172	Steam reforming of ethanol over Ni-based catalysts: Effect of feed composition on catalyst stability. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7735-7746.	7.1	25
173	Ni nanoparticles prepared from Ce substituted LaNiO ₃ for the guaiacol conversion. <i>Applied Catalysis A: General</i> , 2014, 481, 1-10.	4.3	37
174	An experimental and kinetic modeling study of n-propanol and i-propanol ignition at high temperatures. <i>Combustion and Flame</i> , 2014, 161, 644-656.	5.2	64
175	Upgrading of lignin-derived bio-oils by catalytic hydrodeoxygenation. <i>Energy and Environmental Science</i> , 2014, 7, 103-129.	30.8	764
176	Bioethanol production from sago pith waste using microwave hydrothermal hydrolysis accelerated by carbon dioxide. <i>Applied Energy</i> , 2014, 128, 277-283.	10.1	67
177	Recent scenario and technologies to utilize non-edible oils for biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 840-851.	16.4	142
178	Alkaline pretreatment and hydrothermal liquefaction of cypress for high yield bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 108, 136-142.	5.5	28
179	Rape straw as a source of bio-oil via vacuum pyrolysis: Optimization of bio-oil yield using orthogonal design method and characterization of bio-oil. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 106, 63-70.	5.5	47
180	Performance and Emission Characteristics of an IDI Diesel Engine Fuelled Biodiesel (Rubber Seed Oil) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.2	1
181	Corrosion Behaviour of Carbon Steel in Biodieselâ€“Dieselâ€“Ethanol (BDE) Fuel Blend. <i>MATEC Web of Conferences</i> , 2015, 27, 01011.	0.2	2

#	ARTICLE	IF	CITATIONS
182	Thiazolylideneâ€Catalyzed Cleavage of Methyl Oleateâ€Derived 1,3-Hydroxy Ketone to the Corresponding Free Aldehydes. ChemSusChem, 2015, 8, 2481-2486.	6.8	17
183	Effect of Extrusion Pretreatment on Enzymatic Hydrolysis of Miscanthus for the Purpose of Ethanol Production. Journal of Agricultural Science, 2015, 7, .	0.2	4
184	A Review of Hydrothermal Liquefaction Bio-Crude Properties and Prospects for Upgrading to Transportation Fuels. Energies, 2015, 8, 6765-6794.	3.1	187
185	Relationships between Biomass Composition and Liquid Products Formed via Pyrolysis. Frontiers in Energy Research, 2015, 3, .	2.3	40
186	Ionic Liquid-Facilitated Preparation of Lignocellulosic Composites. International Journal of Polymer Science, 2015, 2015, 1-8.	2.7	9
187	Consolidated bioprocess for bioethanol production with alkali-pretreated sugarcane bagasse. Applied Energy, 2015, 157, 517-522.	10.1	30
188	Agricultural Biomass Based Potential Materials. , 2015, , .		32
189	A highly active Ni/mesoporous attapulgite for hydrocracking CO bonds in rice straw. Fuel Processing Technology, 2015, 131, 376-381.	7.2	25
190	Upgrading Furfurals to Drop-in Biofuels: An Overview. ACS Sustainable Chemistry and Engineering, 2015, 3, 1263-1277.	6.7	259
191	A comparative study of biodiesel production using methanol, ethanol, and tert-butyl methyl ether (MTBE) under supercritical conditions. Bioresource Technology, 2015, 191, 306-311.	9.6	65
192	Emulsification of animal fats and vegetable oils for their use as a diesel engine fuel: An overview. Renewable and Sustainable Energy Reviews, 2015, 47, 623-633.	16.4	58
193	The methods of formaldehyde emission testing of engine: A review. Modern Physics Letters B, 2015, 29, 1530009.	1.9	1
194	Integrating Microalgae Cultivation with Wastewater Treatment for Biodiesel Production. , 2015, , 321-337.		3
195	A kinetic model for thermal cracking of waste cooking oil based on chemical lumps. Fuel, 2015, 144, 50-59.	6.4	42
196	Mapping the scientific research on life cycle assessment: a bibliometric analysis. International Journal of Life Cycle Assessment, 2015, 20, 541-555.	4.7	108
197	Selective catalytic conversion of bio-oil over high-silica zeolites. Bioresource Technology, 2015, 179, 518-523.	9.6	37
198	The economics of producing sustainable aviation fuel: a regional case study in Queensland, Australia. GCB Bioenergy, 2015, 7, 497-511.	5.6	27
199	Uncertainty, Irreversibility, and Investment in Second-Generation Biofuels. Bioenergy Research, 2015, 8, 675-687.	3.9	16

#	ARTICLE	IF	CITATIONS
200	Catalytic hydrothermal upgrading of crude bio-oils produced from different thermo-chemical conversion routes of microalgae. <i>Bioresource Technology</i> , 2015, 186, 58-66.	9.6	50
201	Biocrude oil production and nutrient recovery from algae by two-step hydrothermal liquefaction using a semi-continuous reactor. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 79-87.	2.7	13
202	Hydrogenation and hydrodeoxygenation of difurfurylidene acetone to liquid alkanes over Raney Ni and the supported Pt catalysts. <i>Applied Energy</i> , 2015, 160, 990-998.	10.1	25
203	Enhancement of bio-oil derived chemicals in aqueous phase using ionic liquids: Experimental and COSMO-SAC predictions using a modified hydrogen bonding expression. <i>Fluid Phase Equilibria</i> , 2015, 400, 27-37.	2.5	28
204	Production and catalytic transformation of levulinic acid: A platform for speciality chemicals and fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 986-997.	16.4	291
205	The Effects of Neat Biodiesel and Biodiesel and HVO Blends in Diesel Fuel on Exhaust Emissions from a Light Duty Vehicle with a Diesel Engine. <i>Environmental Science & Technology</i> , 2015, 49, 7473-7482.	10.0	50
206	Comparative study on alcoholâ€“gasoline and gasolineâ€“alcohol Dual-Fuel Spark Ignition (DFSI) combustion for engine particle number (PN) reduction. <i>Fuel</i> , 2015, 159, 250-258.	6.4	56
207	A comparative study of ultrasonic and conventional methods of biodiesel production from mahua oil. <i>Biofuels</i> , 2015, 6, 107-113.	2.4	17
208	Bioengineering strategies on catalysis for the effective production of renewable and sustainable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 533-547.	16.4	24
209	Concurrent production of biodiesel and chemicals through wet in situ transesterification of microalgae. <i>Bioresource Technology</i> , 2015, 193, 386-392.	9.6	72
210	Decarbonisation of olefin processes using biomass pyrolysis oil. <i>Applied Energy</i> , 2015, 149, 404-414.	10.1	18
211	Optimal design of microalgae-based biorefinery: Economics, opportunities and challenges. <i>Applied Energy</i> , 2015, 150, 69-79.	10.1	107
212	Comparative study on alcoholsâ€“gasoline and gasolineâ€“alcohols dual-fuel spark ignition (DFSI) combustion for high load extension and high fuel efficiency. <i>Energy</i> , 2015, 82, 395-405.	8.8	74
213	Dual-Fuel Spark Ignition (DFSI) combustion fuelled with different alcohols and gasoline for fuel efficiency. <i>Fuel</i> , 2015, 157, 255-260.	6.4	57
214	Single- and two-step hydrothermal liquefaction of microalgae in a semi-continuous reactor: Effect of the operating parameters. <i>Bioresource Technology</i> , 2015, 191, 426-432.	9.6	43
215	Engineered Biochar from Biofuel Residue: Characterization and Its Silver Removal Potential. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10634-10640.	8.0	98
216	Ethics and Biofuel Production in Chile. <i>Journal of Agricultural and Environmental Ethics</i> , 2015, 28, 293-312.	1.7	16
217	Biorefineries: An Overview on Bioethanol Production. <i>Handbook of Environmental Chemistry</i> , 2015, , 153-173.	0.4	0

#	ARTICLE	IF	CITATIONS
218	Feasibility of reed for biobutanol production hydrolyzed by crude cellulase. Biomass and Bioenergy, 2015, 76, 24-30.	5.7	32
219	Comparative biochemical analysis after steam pretreatment of lignocellulosic agricultural waste biomass from Williams Cavendish banana plant (Triploid <i>Musa</i> AAA group). Waste Management and Research, 2015, 33, 1022-1032.	3.9	15
220	Stabilization of Fast Pyrolysis Oil Derived from Wood through Esterification. International Journal of Chemical Reactor Engineering, 2015, 13, 323-334.	1.1	17
221	Production of gasoline fraction from bio-oil under atmospheric conditions by an integrated catalytic transformation process. Energy, 2015, 90, 1922-1930.	8.8	30
222	Big bluestem as a bioenergy crop: A review. Renewable and Sustainable Energy Reviews, 2015, 52, 740-756.	16.4	25
223	Optimal processing pathway selection for microalgae-based biorefinery under uncertainty. Computers and Chemical Engineering, 2015, 82, 362-373.	3.8	18
224	An investigation of catalytic hydrocracking of high FFA vegetable oils to liquid hydrocarbons using biomass derived heterogeneous catalysts. Journal of Analytical and Applied Pyrolysis, 2015, 115, 401-409.	5.5	26
225	Algal Biorefinery: An Integrated Approach. , 2015, , .		32
226	Soybean waste (okara) as a valorization biomass for the bioethanol production. Energy, 2015, 93, 1742-1747.	8.8	45
227	Opportunities, recent trends and challenges of integrated biorefinery: Part I. Renewable and Sustainable Energy Reviews, 2015, 43, 1427-1445.	16.4	338
228	Biogasoline: An out-of-the-box solution to the food-for-fuel and land-use competitions. Energy Conversion and Management, 2015, 89, 349-367.	9.2	57
229	A low-energy, cost-effective approach to fruit and citrus peel waste processing for bioethanol production. Applied Energy, 2015, 140, 65-74.	10.1	160
230	Prospect of biofuels as an alternative transport fuel in Australia. Renewable and Sustainable Energy Reviews, 2015, 43, 331-351.	16.4	169
231	Hydrothermal processing of macroalgae for producing crude bio-oil. Fuel Processing Technology, 2015, 130, 268-274.	7.2	66
232	Enhancement of bio-oil production via pyrolysis of wood biomass by pretreatment with H ₂ SO ₄ . Bioresource Technology, 2015, 178, 76-82.	9.6	53
233	Hydrothermal liquefaction of barley straw to bio-crude oil: Effects of reaction temperature and aqueous phase recirculation. Applied Energy, 2015, 137, 183-192.	10.1	298
234	Steam reforming of cyclic model compounds of bio-oil over Ni-based catalysts: Product distribution and carbon formation. Applied Catalysis B: Environmental, 2015, 165, 117-127.	20.2	70
235	The synergistic effects for the co-cultivation of oleaginous yeast- <i>Rhodotorula glutinis</i> and microalgae- <i>Scenedesmus obliquus</i> on the biomass and total lipids accumulation. Bioresource Technology, 2015, 184, 148-152.	9.6	107

#	ARTICLE	IF	CITATIONS
236	Opportunities, recent trends and challenges of integrated biorefinery: Part II. Renewable and Sustainable Energy Reviews, 2015, 43, 1446-1466.	16.4	134
237	Spark Ignition Engine Combustion, Performance and Emission Products from Hydrous Ethanol and Its Blends with Gasoline. Energies, 2016, 9, 984.	3.1	37
238	Î±-Pinene - A High Energy Density Biofuel for SI Engine Applications. , 0, , .		9
239	Preparation of Bio-hydrogen and Bio-fuels from Lignocellulosic Biomass Pyrolysis-Oil. Chinese Journal of Chemical Physics, 2016, 29, 635-643.	1.3	10
240	A novel approach for the liquefaction of wood powder: usage of pyrolytic bio-oil as a reaction medium. International Journal of Energy Research, 2016, 40, 1986-2001.	4.5	7
241	Bioethanol Quality Improvement of Coffee Fruit Leather. MATEC Web of Conferences, 2016, 58, 01004.	0.2	0
242	Trends and Sustainability Criteria for Liquid Biofuels. , 2016, , 59-88.		4
243	Comparison of empirical equations and artificial neural network results in terms of kinematic viscosity prediction of fuels based on hazelnut oil methyl ester. Environmental Progress and Sustainable Energy, 2016, 35, 1827-1841.	2.3	8
244	N ₂ explosive decompression pretreatment of biomass for lignocellulosic ethanol production. Biomass and Bioenergy, 2016, 90, 1-6.	5.7	40
245	Comparative evaluation of GHG emissions from the use of Miscanthus for bio-hydrocarbon production via fast pyrolysis and bio-oil upgrading. Applied Energy, 2016, 176, 22-33.	10.1	27
246	Energy access and security strategies in Small Island Developing States. Energy Policy, 2016, 98, 663-673.	8.8	57
247	Bacillus sp. strains to produce bio-hydrogen from the organic fraction of municipal solid waste. Applied Energy, 2016, 176, 116-124.	10.1	65
248	A model for multi-criterion disaster vulnerability assessment of economic systems: implications for Vietnam's bioethanol policy. Clean Technologies and Environmental Policy, 2016, 18, 1917-1929.	4.1	6
249	Evaluation of hyper thermal acid hydrolysis of Kappaphycus alvarezii for enhanced bioethanol production. Bioresource Technology, 2016, 209, 66-72.	9.6	25
250	Investigations of red mud as a catalyst in Mahua oil biodiesel production and its engine performance. Fuel Processing Technology, 2016, 149, 7-14.	7.2	41
251	Dependence of the hydrolysis efficiency on the lignin content in lignocellulosic material. International Journal of Hydrogen Energy, 2016, 41, 16338-16343.	7.1	44
252	Conversion of Polyethylene Terephthalate Based Waste Carpet to Benzene-Rich Oils through Thermal, Catalytic, and Catalytic Steam Pyrolysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 2852-2860.	6.7	79
253	Hydrothermal liquefaction of wood: a critical review. Reviews in Chemical Engineering, 2016, 32, .	4.4	50

#	ARTICLE	IF	CITATIONS
254	Advanced fuels for gas turbines: Fuel system corrosion, hot path deposit formation and emissions. Energy Conversion and Management, 2016, 125, 40-50.	9.2	26
255	Tween-80 is effective for enhancing steam-exploded biomass enzymatic saccharification and ethanol production by specifically lessening cellulase absorption with lignin in common reed. Applied Energy, 2016, 175, 82-90.	10.1	153
256	Prediction of kinetic parameters of biomass pyrolysis based on the optimal mixture design method. Clean Technologies and Environmental Policy, 2016, 18, 1621-1629.	4.1	8
257	Homogeneous carboxymethylated orange pulp cellulose: Characterization and evaluation in terms of drug delivery. International Journal of Biological Macromolecules, 2016, 93, 1141-1146.	7.5	5
258	Bioenergy from agroforestry can lead to improved food security, climate change, soil quality, and rural development. Food and Energy Security, 2016, 5, 165-183.	4.3	80
259	Investigation on Characteristics of Liquefied Products from Solvolysis Liquefaction of <i>Chlorella pyrenoidosa</i> in Ethanol-Water Systems. Energy & Fuels, 2016, 30, 6475-6485.	5.1	23
260	The effect of added ethanol to diesel fuel on performance, vibration, combustion and knocking of a CI engine. Fuel, 2016, 185, 718-733.	6.4	80
261	Bioethanol Production from Liquid Waste of Rice Flour with Batch Process. MATEC Web of Conferences, 2016, 58, 01003.	0.2	0
262	Catalytic conversion of aqueous fraction of bio-oil to alcohols over CNT-supported catalysts. Fuel, 2016, 180, 749-758.	6.4	13
263	Waste Energy for Life Cycle Assessment. Green Energy and Technology, 2016, , .	0.6	5
264	Biochemical studies on the production of biofuel (bioethanol) from potato peels wastes by <i>Saccharomyces cerevisiae</i> : effects of fermentation periods and nitrogen source concentration. Biotechnology and Biotechnological Equipment, 2016, 30, 497-505.	1.3	28
265	Performance of a commercial-scale biomass fast pyrolysis plant for bio-oil production. Fuel, 2016, 182, 677-686.	6.4	77
266	Corrosive characteristics of bioethanol and gasoline blends for metals. International Journal of Energy Research, 2016, 40, 1704-1711.	4.5	16
267	Energy from Waste Materials and Unconventional Sources. Green Energy and Technology, 2016, , 123-255.	0.6	1
268	Co-hydrotreating of straight-run diesel fraction and vegetable oil on Co(Ni)-PMo/Al ₂ O ₃ catalysts. Petroleum Chemistry, 2016, 56, 56-61.	1.4	19
269	Upgrading of bio-oil from biomass pyrolysis over Cu-modified β -zeolite catalyst with high selectivity and stability. Applied Catalysis B: Environmental, 2016, 186, 166-172.	20.2	112
270	Pd-Nb bifunctional catalysts supported on silica and zirconium phosphate heterostructures for O-removal of dibenzofurane. Catalysis Today, 2016, 277, 143-151.	4.4	18
271	Esterification of acetic and oleic acids within the Amberlyst 15 packed catalytic column. Korean Journal of Chemical Engineering, 2016, 33, 582-586.	2.7	15

#	ARTICLE	IF	CITATIONS
272	Impact of metals on corrosive behavior of biodieselâ€“dieselâ€“ethanol (BDE) alternative fuel. Renewable Energy, 2016, 94, 1-9.	8.9	49
273	The effects of alcohol to oil molar ratios and the type of alcohol on biodiesel production using transesterification process. Egyptian Journal of Petroleum, 2016, 25, 21-31.	2.6	317
274	Hydrothermal liquefaction of spent coffee grounds in water medium for bio-oil production. Biomass and Bioenergy, 2016, 86, 191-198.	5.7	131
275	Investigations into enhanced wax production with combustion synthesized Fischerâ€“Tropsch catalysts. Energy Conversion and Management, 2016, 116, 80-90.	9.2	21
276	Hydrogen production from biomass by continuous fast pyrolysis and in-line steam reforming. RSC Advances, 2016, 6, 25975-25985.	3.6	114
277	Esterification of levulinic acid with butanol over ion exchange resins. Applied Catalysis A: General, 2016, 517, 56-66.	4.3	97
278	Numerical evaluation of the low Reynolds turbulent flow behaviour in a bioreactor. International Journal of Simulation and Process Modelling, 2016, 11, 66.	0.2	11
279	The influence of sorghum grain decortication on bioethanol production and quality of the distillersâ€™™ dried grains with solubles using cold and conventional warm starch processing. Bioresource Technology, 2016, 203, 181-189.	9.6	15
280	Review on bioethanol as alternative fuel for spark ignition engines. Renewable and Sustainable Energy Reviews, 2016, 56, 820-835.	16.4	182
281	Preliminary economic assessment of biofuel production from microalgae. Renewable and Sustainable Energy Reviews, 2016, 55, 1147-1153.	16.4	40
282	Experimental assessment of performance and emissions maps for biodiesel fueled compression ignition engine. Applied Energy, 2016, 161, 320-329.	10.1	84
283	Environment, Energy and Climate Change II. Handbook of Environmental Chemistry, 2016, , .	0.4	2
284	Structural evolution of biomass char and its effect on the gasification rate. Applied Energy, 2017, 185, 998-1006.	10.1	49
285	An experimental investigation into the ignition and combustion characteristics of single droplets of biochar water slurry fuels in air. Applied Energy, 2017, 185, 2160-2167.	10.1	60
286	Optimization of bio-methanol production from goat manure in single stage bio-reactor. International Journal of Hydrogen Energy, 2017, 42, 9031-9043.	7.1	15
287	Co-hydrotreating of algae and used engine oil for the direct production of gasoline and diesel fuels or blending components. Energy, 2017, 136, 151-162.	8.8	21
288	Bio-oil: the future of hydrogen generation. Biofuels, 2017, 8, 663-674.	2.4	45
289	Catalytic cracking of soybean oil using ZSM5 zeolite. Catalysis Today, 2017, 279, 168-176.	4.4	68

#	ARTICLE	IF	CITATIONS
290	Producing jet fuel from biomass lignin: Potential pathways to alkyl-benzenes and cycloalkanes. Renewable and Sustainable Energy Reviews, 2017, 72, 673-722.	16.4	168
291	Upgrading Sewage Sludge Liquefaction Bio-Oil by Microemulsification: The Effect of Ethanol as Polar Phase on Solubilization Performance and Fuel Properties. Energy & Fuels, 2017, 31, 1574-1582.	5.1	29
292	Cerium oxide as a catalyst for the ketonization of aldehydes: mechanistic insights and a convenient way to alkanes without the consumption of external hydrogen. Green Chemistry, 2017, 19, 1555-1569.	9.0	37
293	Corrosion of stainless steels in the riser during co-processing of bio-oils in a fluid catalytic cracking pilot plant. Fuel Processing Technology, 2017, 159, 187-199.	7.2	22
294	Complement or substitute: Ethanol's uncertain relationship with gasoline under alternative petroleum price and policy scenarios. Applied Energy, 2017, 191, 385-397.	10.1	22
295	Progress in biofuel production from gasification. Progress in Energy and Combustion Science, 2017, 61, 189-248.	31.2	483
296	Non-catalytic hydrothermal liquefaction of pine sawdust using experimental design: Material balances and products analysis. Applied Energy, 2017, 204, 1026-1034.	10.1	35
297	Production of bio-oil via hydrothermal liquefaction of birch sawdust. Energy Conversion and Management, 2017, 144, 243-251.	9.2	56
298	Kinetics of extraction and in situ transesterification of oils from spent coffee grounds. Journal of Environmental Chemical Engineering, 2017, 5, 2611-2616.	6.7	41
299	The utilisation potential of urban greening waste: Tartu case study. Urban Forestry and Urban Greening, 2017, 21, 96-101.	5.3	29
300	Propanol isomers: Investigation of ignition and pyrolysis time scales. Combustion and Flame, 2017, 176, 229-244.	5.2	32
301	Comparison of phosphide catalysts prepared by temperature-programmed reduction and liquid-phase methods in the hydrodeoxygenation of 2-methylfuran. Applied Catalysis A: General, 2017, 548, 39-46.	4.3	14
302	Homogeneous and heterogeneous catalytic (dehydrogenative) oxidation of oleochemical 1,2-diols to α -hydroxyketones. Green Chemistry, 2017, 19, 3390-3399.	9.0	20
303	Homogeneous catalysed biodiesel synthesis from Alexandrian Laurel (<i>Calophyllum inophyllum</i>) Tj ETQq1 1 0.784314 rgBT /Over Energy, 2017, 14, 754-764.	3.8	9
304	Quasi dimensional numerical investigation of syngas fuelled engine operation: MBT operation and parametric sensitivity analysis. Applied Thermal Engineering, 2017, 124, 911-928.	6.0	17
305	Renewable energy management and market in Iran: A holistic review on current state and future demands. Renewable and Sustainable Energy Reviews, 2017, 80, 774-788.	16.4	60
306	Hydrothermal liquefaction of biomass for the production of diluents for bitumen transport. Biofuels, Bioproducts and Biorefining, 2017, 11, 811-829.	3.7	19
307	Process system engineering aspect of bio-alcohol fuel production from biomass via pyrolysis: An overview. Renewable and Sustainable Energy Reviews, 2017, 79, 914-923.	16.4	37

#	ARTICLE	IF	CITATIONS
308	Proposal and design of a new biomass based syngas production system integrated with combined heat and power generation. <i>Energy</i> , 2017, 133, 986-997.	8.8	28
309	Hydrothermal liquefaction of rice straw with NiO nanocatalyst for bio-oil production. <i>Renewable Energy</i> , 2017, 113, 532-545.	8.9	65
310	Non-catalytic Hydrothermal Liquefaction of Biomass: An Experimental Design Approach. <i>Energy Procedia</i> , 2017, 105, 75-81.	1.8	4
311	A recyclable and highly active magnetic solid superbase for hydrocracking C O bridged bonds in sawdust. <i>Fuel Processing Technology</i> , 2017, 159, 396-403.	7.2	14
312	Assessing biodiesel production from sewage sludge-derived bio-oil. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 10, 189-196.	3.1	36
313	Integrating agronomic factors into energy efficiency assessment of agro-bioenergy production – A case study of ethanol and biogas production from maize feedstock. <i>Applied Energy</i> , 2017, 198, 426-439.	10.1	30
314	Economic evaluation of the replacement of sugar cane bagasse by vinasse, as a source of energy in a power plant in the state of Paraná, Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 34-42.	16.4	43
315	Production economics of high-quality microalgae. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2017, 12, 395-401.	3.4	8
316	Conversion of <i>Undaria pinnatifida</i> residue to glycolic acid with recyclable methylamine in low temperature hydrothermal liquefaction. <i>Bioresource Technology</i> , 2017, 228, 47-55.	9.6	7
317	Simultaneous production of biocrude oil and recovery of nutrients and metals from human feces via hydrothermal liquefaction. <i>Energy Conversion and Management</i> , 2017, 134, 340-346.	9.2	106
318	Effects of alternative fuels on the combustion characteristics and emission products from diesel engines: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 71, 523-534.	16.4	196
319	On-line analysis of primary tars from biomass pyrolysis by single photoionization mass spectrometry: Experiments and detailed modelling. <i>Chemical Engineering Journal</i> , 2017, 313, 270-282.	12.7	32
320	Cellulose Biorefinery Based on a Combined Catalytic and Biotechnological Approach for Production of 5-HMF and Ethanol. <i>ChemSusChem</i> , 2017, 10, 562-574.	6.8	28
321	Improvement on oxidation and storage stability of biodiesel derived from an emerging feedstock camelina. <i>Fuel Processing Technology</i> , 2017, 157, 90-98.	7.2	54
322	Effects of growth-promoters on the productivity of <i>Arundo donax</i> L. (NileFiber [®] , [®]) grown as a purpose-grown biofuel feedstock in Nova Scotia. <i>Canadian Journal of Plant Science</i> , 0, , .	0.9	1
323	Effect of bioethanol on combustion and emissions in advanced CI engines: HCCI, PPC and GCI mode – A review. <i>Applied Energy</i> , 2017, 208, 782-802.	10.1	97
324	Techno-economic assessment of the by-products contribution from non-catalytic hydrothermal liquefaction of lignocellulose residues. <i>Energy</i> , 2017, 137, 679-695.	8.8	47
325	Catalytic Upgrading of Bio-oil: Biomass Gasification in the Presence of Catalysts. <i>Green Energy and Technology</i> , 2017, , 155-176.	0.6	0

#	ARTICLE	IF	CITATIONS
326	Two-steps microwave-assisted treatment on acid hydrolysis of sago pith for bioethanol production. IOP Conference Series: Earth and Environmental Science, 2017, 65, 012052.	0.3	2
327	Assessment of bioenergy production from mid-rotation thinning of hardwood plantation: life cycle assessment and cost analysis. Clean Technologies and Environmental Policy, 2017, 19, 2021-2040.	4.1	18
329	Analysis of biomass hydrothermal liquefaction and biocrude-oil upgrading for renewable jet fuel production: The impact of reaction conditions on production costs and GHG emissions performance. Renewable Energy, 2017, 113, 1388-1398.	8.9	141
330	The effect of hydrophilic amines on hydrothermal liquefaction of macroalgae residue. Bioresource Technology, 2017, 243, 409-416.	9.6	8
331	Biobutanol – An impending biofuel for future: A review on upstream and downstream processing techniques. Renewable and Sustainable Energy Reviews, 2017, 68, 788-807.	16.4	173
332	A conceptual framework for the analysis of the effect of institutions on biofuel supply chains. Applied Energy, 2017, 185, 895-915.	10.1	29
333	Microalgae as a potential source for biodiesel production: techniques, methods, and other challenges. International Journal of Energy Research, 2017, 41, 761-789.	4.5	76
334	Biofuel production from citrus wastes: A feasibility study in Iran. Renewable and Sustainable Energy Reviews, 2017, 69, 1100-1112.	16.4	104
335	A novel integrated thermally coupled moving bed reactors for naphtha reforming process with hydrodealkylation of toluene. Applied Thermal Engineering, 2017, 112, 1040-1056.	6.0	14
336	Optimization of bioreactor operating conditions using computational fluid dynamics techniques. Canadian Journal of Chemical Engineering, 2017, 95, 199-204.	1.7	16
337	Biodiesel Production from Waste Oil in Multiphase Reactors with Bifunctional Catalyst for Sustainable Energy. Biofuels and Biorefineries, 2017, , 327-343.	0.5	0
338	Comprehensive approach on the structure, production, processing, and application of lignin. , 2017, , 165-178.		10
339	Integration Approach of Anaerobic Digestion and Fermentation Process Towards Producing Biogas and Bioethanol with Zero Waste: Technical. Journal of Fundamentals of Renewable Energy and Applications, 2017, 07, .	0.2	13
340	La producción de bioetanol y su impacto en el precio de productos agrícolas en México. Ecosistemas Y Recursos Agropecuarios, 2017, 4, 597.	0.2	1
341	Direct lead isotopic analysis of bioethanol by means of multi-collector ICP-mass spectrometry with a total consumption sample introduction system. Journal of Analytical Atomic Spectrometry, 2018, 33, 481-490.	3.0	3
342	Production of Biodiesel Via Catalytic Processes: A Brief Review. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	7
343	Co-upgrading of raw bio-oil with kitchen waste oil through fluid catalytic cracking (FCC). Applied Energy, 2018, 217, 233-240.	10.1	65
344	Effect of sodium carbonate catalyst weight on production of bio-oil via thermochemical liquefaction of corncobs in ethanol-water solution. AIP Conference Proceedings, 2018, , .	0.4	2

#	ARTICLE	IF	CITATIONS
345	Robust Organocatalysts for the Cleavage of Vegetable Oil Derivatives to Aldehydes through Retrobenzoin Condensation. Chemistry - A European Journal, 2018, 24, 8141-8150.	3.3	13
346	Liquid-liquid equilibria and COSMO-SAC modeling of organic solvent/ionic liquid - hydroxyacetone - water mixtures. Fluid Phase Equilibria, 2018, 462, 73-84.	2.5	17
347	Laminar Burning Velocity of Biomass-Derived Fuels and Its Significance in Combustion Devices. Green Energy and Technology, 2018, , 359-378.	0.6	7
348	More than ethanol: a techno-economic analysis of a corn stover ethanol biorefinery integrated with a hydrothermal liquefaction process to convert lignin into biochemicals. Biofuels, Bioproducts and Biorefining, 2018, 12, 497-509.	3.7	51
349	Graphene Oxide and Microwave Synergism for Efficient Esterification of Fatty Acids. Energy & Fuels, 2018, 32, 3599-3607.	5.1	31
350	Study of low temperature chlorine atom initiated oxidation of methyl and ethyl butyrate using synchrotron photoionization TOF-mass spectrometry. Physical Chemistry Chemical Physics, 2018, 20, 5785-5794.	2.8	3
352	Sustainable Energy Technology and Policies. Green Energy and Technology, 2018, , .	0.6	2
353	Ethanol as a vehicle fuel in China: A review from the perspectives of raw material resource, vehicle, and infrastructure. Journal of Cleaner Production, 2018, 180, 832-845.	9.3	61
354	Combined yeast and microalgal cultivation in a pilot-scale raceway pond for urban wastewater treatment and potential biodiesel production. Water Science and Technology, 2018, 77, 1062-1071.	2.5	24
355	Oil Palm Biomass and Its Kinetic Transformation Properties. Energy, Environment, and Sustainability, 2018, , 73-87.	1.0	2
356	Bioethanol production from microwave-assisted acid or alkali-pretreated agricultural residues of cassava using separate hydrolysis and fermentation (SHF). 3 Biotech, 2018, 8, 69.	2.2	29
357	Evolution of the metal and metalloid content along the bioethanol production process. Fuel Processing Technology, 2018, 173, 1-10.	7.2	6
358	Bio-oil production from fast pyrolysis of rice husk in a commercial-scale plant with a downdraft circulating fluidized bed reactor. Fuel Processing Technology, 2018, 171, 308-317.	7.2	68
359	Effect of Support of D^3S Catalysts on Hydrodeoxygenation of Guaiacol as a Model Compound of Biopetroleum. Russian Journal of Applied Chemistry, 2018, 91, 270-279.	0.5	3
360	Optimization of Multiproduct Biorefinery Processes under Consideration of Biomass Supply Chain Management and Market Developments. Industrial & Engineering Chemistry Research, 2018, 57, 6980-6991.	3.7	33
361	The effect of inlet temperature and spark timing on thermo-mechanical, chemical and the total exergy of an SI engine using bioethanol-gasoline blends. Energy Conversion and Management, 2018, 165, 344-353.	9.2	25
362	Integrated 1st and 2nd generation sugarcane bio-refinery for jet fuel production in Brazil: Techno-economic and greenhouse gas emissions assessment. Renewable Energy, 2018, 129, 733-747.	8.9	69
363	Bio-oil as a potential source of petroleum range fuels. Renewable and Sustainable Energy Reviews, 2018, 81, 69-75.	16.4	66

#	ARTICLE	IF	CITATIONS
364	Conversion of Sago (Metroxylon sagu) Pith Waste to Fermentable Sugars via a Facile Depolymerization Process. Applied Biochemistry and Biotechnology, 2018, 184, 1142-1154.	2.9	1
365	Catalytic hydrogenation and hydrodeoxygenation of lignin-derived model compound eugenol over Ru/C: Intrinsic microkinetics and transport phenomena. Chemical Engineering Journal, 2018, 333, 240-259.	12.7	84
366	Biodiesel fuel production from waste cooking oil using radiation-grafted fibrous catalysts. Radiation Physics and Chemistry, 2018, 143, 41-46.	2.8	18
367	Thermal comfort in naturally ventilated office buildings in cold and cloudy climate of Darjeeling, India – An adaptive approach. Energy and Buildings, 2018, 160, 44-60.	6.7	30
368	Heterogeneous sulfur-free hydrodeoxygenation catalysts for selectively upgrading the renewable bio-oils to second generation biofuels. Renewable and Sustainable Energy Reviews, 2018, 82, 3762-3797.	16.4	164
369	Biocrude production and heavy metal migration during hydrothermal liquefaction of swine manure. Chemical Engineering Research and Design, 2018, 115, 108-115.	5.6	74
370	Production of bio-jet fuel from corncob by hydrothermal decomposition and catalytic hydrogenation: Lab analysis of process and techno-economics of a pilot-scale facility. Applied Energy, 2018, 227, 128-136.	10.1	26
371	Study of the emissions in the diesel engines: a review. Contemporary Engineering Sciences, 2018, 11, 3789-3797.	0.2	0
372	THE EFFECT OF ETHANOL ON FUEL TANK CORROSION RATE. Jurnal Teknologi (Sciences and Engineering), 2018, 80, .	0.4	4
373	A Broad Introduction to First-, Second-, and Third-Generation Biofuels. , 2018, , 1-25.		23
374	Bio oil production from microalgae via hydrothermal liquefaction technology under subcritical water conditions. Journal of Microbiological Methods, 2018, 153, 108-117.	1.6	47
375	Catalytic Hydrogenation of Octanoic Acid in the Gaseous Phase on Ni Catalysts: The Effect of Support Species and Structure. Industrial & Engineering Chemistry Research, 2018, 57, 16272-16283.	3.7	7
376	Catalytic hydrothermal liquefaction of algae and upgrading of biocrude: A critical review. Renewable and Sustainable Energy Reviews, 2018, 97, 103-118.	16.4	176
377	Analysis of emission gas and fuel consumption on SI engine fueled with low-grade bioethanol and oxygenated cycloheptanol additive. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012058.	0.3	8
378	1.19 Biomass Energy. , 2018, , 770-794.		18
379	A miniaturized electronic sensor for instant monitoring of ethanol in gasohol fuel blends. RSC Advances, 2018, 8, 22952-22962.	3.6	9
381	Temperature Dependence of Single Step Hydrodeoxygenation of Liquid Phase Pyrolysis Oil. Frontiers in Chemistry, 2018, 6, 297.	3.6	2
382	Recent advances in energy recovery from wastewater sludge. , 2018, , 67-100.		21

#	ARTICLE	IF	CITATIONS
383	Biofuels Production by Biomass Gasification: A Review. <i>Energies</i> , 2018, 11, 811.	3.1	281
384	An overview of biorefinery-derived platform chemicals from a cellulose and hemicellulose biorefinery. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 1615-1630.	4.1	336
385	An overview of solid base heterogeneous catalysts for biodiesel production. <i>Catalysis Reviews - Science and Engineering</i> , 2018, 60, 594-628.	12.9	62
386	Development of an alcohol-inducible gene expression system for recombinant protein expression in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Applied Phycology</i> , 2018, 30, 2297-2304.	2.8	22
387	Recent development on sustainable biodiesel production using sewage sludge. <i>3 Biotech</i> , 2018, 8, 245.	2.2	31
388	Utilization distillate low grade bioethanol as fuel mixing on SI engine (from carburetor to injection). <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
389	Hydrothermal liquefaction of Radiata Pine with Kraft black liquor for integrated biofuel production. <i>Journal of Cleaner Production</i> , 2018, 199, 737-750.	9.3	34
390	Combustion Analysis of Biofuel Derived from Waste Fish Fat. <i>Green Energy and Technology</i> , 2018, , 1311-1328.	0.6	0
391	Two Mychonastes isolated from freshwater bodies are novel potential feedstocks for biodiesel production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 1452-1460.	2.3	4
392	Adaptive thermal comfort in the different buildings of Darjeeling Hills in eastern India “ Effect of difference in elevation. <i>Energy and Buildings</i> , 2018, 173, 649-677.	6.7	26
393	Design and operation of a low cost bio-oil fast pyrolysis from sugarcane bagasse on circulating fluidized bed reactor in a pilot plant. <i>Fuel Processing Technology</i> , 2018, 179, 17-31.	7.2	34
394	Use of Biochar Produced from Elephant Grass by Pyrolysis in a Screw Reactor as a Soil Amendment. <i>Waste and Biomass Valorization</i> , 2019, 10, 3089-3100.	3.4	37
395	An overview on synthesis and design of microalgal biorefinery configurations by employing superstructure-based optimization approach. <i>Energy Systems</i> , 2019, 10, 941-966.	3.0	13
396	Long term storage stability of bio-oil from rice husk fast pyrolysis. <i>Energy</i> , 2019, 186, 115882.	8.8	19
397	Evaluating the potential for bio-fuel upgrading: A comprehensive analysis of bio-crude and bio-residue from hydrothermal liquefaction of agricultural biomass. <i>Applied Energy</i> , 2019, 254, 113679.	10.1	38
398	Changes in oxygen functionality of soluble portions and residues from bagasse sub- and supercritical alkanolyses: Identification of complex structural fragments. <i>Biomass and Bioenergy</i> , 2019, 127, 105288.	5.7	3
399	Enhancement of anaerobic digestion of waste activated sludge by chemical pretreatment. <i>Fuel</i> , 2019, 254, 115671.	6.4	34
400	A heat- and mass-integrated design of hydrothermal liquefaction process co-located with a Kraft pulp mill. <i>Energy</i> , 2019, 189, 116235.	8.8	6

#	ARTICLE	IF	CITATIONS
401	Catalytic deoxygenation of oleic acid over a Ni-CeZrO ₂ catalyst. Fuel, 2019, 258, 116179.	6.4	18
402	Production of renewable fuels by blending bio-oil with alcohols and upgrading under supercritical conditions. Frontiers of Chemical Science and Engineering, 2019, 13, 702-717.	4.4	25
403	Physical, chemical, thermal and biological pre-treatment technologies in fast pyrolysis to maximize bio-oil quality: A critical review. Biomass and Bioenergy, 2019, 128, 105333.	5.7	45
404	Analysis of the Algae Growth Dynamics in the Hydroponic System with LEDs Nighttime Lighting Using the Laser Granulometry Method. Water, Air, and Soil Pollution, 2019, 230, 17.	2.4	5
405	Selective catalytic hydroconversion of bagasse-derived bio-oil to value-added cyclanols in water: Through insight into the structural features of bagasse. Fuel Processing Technology, 2019, 185, 18-25.	7.2	18
406	Effect of Calcium Formate on Hydrodeoxygenation of Biomass Model Compounds. Energy & Fuels, 2019, 33, 1314-1324.	5.1	2
407	Upgrading bio-heavy oil via esterification of fatty acids and glycerol. Journal of Cleaner Production, 2019, 217, 633-638.	9.3	16
408	Catalytic thermolysis of oak sawdust using Fe-based catalyst and CO ₂ . Journal of CO ₂ Utilization, 2019, 32, 269-275.	6.8	17
409	Microalgae Culturing To Produce Biobased Diesel Fuels: An Overview of the Basics, Challenges, and a Look toward a True Biorefinery Future. Industrial & Engineering Chemistry Research, 2019, 58, 15724-15746.	3.7	17
410	Green diesel production from upgrading of cashew nut shell liquid. Renewable and Sustainable Energy Reviews, 2019, 111, 303-313.	16.4	40
411	Environmental Geotechnology. Lecture Notes in Civil Engineering, 2019, , .	0.4	0
412	Production of Biodiesel from Waste Cooking Oil with Ultrasonic Irradiation Method as Renewable Energy Source. Journal of Physics: Conference Series, 2019, 1198, 062001.	0.4	0
413	Potentials and challenges in lignocellulosic biofuel production technology. Renewable and Sustainable Energy Reviews, 2019, 111, 44-56.	16.4	210
414	A comprehensive review on thermochemical, biological, biochemical and hybrid conversion methods of bio-derived lignocellulosic molecules into renewable fuels. Fuel, 2019, 251, 352-367.	6.4	111
415	Effect of Carbonization on CoMoS Catalyst supports in the Hydrodeoxygenation of Guaiacol as a Model Bio-Oil Compound. Chemistry and Technology of Fuels and Oils, 2019, 54, 698-711.	0.5	0
416	Biodiesel, Bioethanol, and Biobutanol Production from Microalgae. , 2019, , 293-321.		17
417	Moving second generation biofuel manufacturing forward: Investigating economic viability and environmental sustainability considering two strategies for supply chain restructuring. Applied Energy, 2019, 242, 1467-1496.	10.1	39
418	Different Cell Disruption and Lipid Extraction Methods from Microalgae for Biodiesel Production. , 2019, , 265-292.		16

#	ARTICLE	IF	CITATIONS
419	Ecofuel future prospect and community impact. , 2019, , 459-479.		2
420	The role of defect sites and oxophilicity of the support on the phenol hydrodeoxygenation reaction. Applied Catalysis B: Environmental, 2019, 249, 292-305.	20.2	56
421	Energy conversion vs structural products: A novel multi-objective multi-period linear optimisation with application to the Australian hardwood plantation thinned logs. Journal of Cleaner Production, 2019, 224, 614-625.	9.3	4
422	Transesterification of high-acidity spent coffee ground oil and subsequent combustion and emissions characteristics in a compression-ignition engine. Fuel, 2019, 247, 257-271.	6.4	10
423	Raman spectroscopy for the discrimination and quantification of fuel blends. Journal of Raman Spectroscopy, 2019, 50, 1008-1014.	2.5	10
424	Insights into the thermal comfort of different naturally ventilated buildings of Darjeeling, India “Effect of gender, age and BMI. Energy and Buildings, 2019, 193, 267-288.	6.7	35
425	Introduction to sustainable and alternative ecofuels. , 2019, , 1-14.		3
426	Unlocking the Potential of Biomass Energy in Pakistan. Frontiers in Energy Research, 2019, 7, .	2.3	33
427	Biodiesel from Waste Cooking Oil. , 2019, , 151-174.		0
428	Degradation of Components After Exposure in a Biomass Pyrolysis System. Corrosion, 2019, 75, 1136-1145.	1.1	3
429	Enhanced Biodiesel and Ethyl Levulinate Production from Rice Bran through Non Catalytic <i>In Situ</i> Transesterification under Subcritical Water Ethanol Mixture. Materials Science Forum, 2019, 964, 234-239.	0.3	1
430	Challenges of data availability: Analysing the water-energy nexus in electricity generation. Energy Strategy Reviews, 2019, 26, 100426.	7.3	34
431	Enhanced Biodiesel and Ethyl Levulinate Production from Rice Bran through Non Catalytic <i>In Situ</i> Transesterification under Subcritical Water Ethanol Mixture. Materials Science Forum, 0, 964, 97-102.	0.3	1
432	State of the Art on the Conventional Processes for Ethanol Production. , 2019, , 61-101.		7
433	An overview of the recent trends on the waste valorization techniques for food wastes. Journal of Environmental Management, 2019, 233, 352-370.	7.8	261
434	Material Recycling and the Myth of Landfill Diversion. Journal of Industrial Ecology, 2019, 23, 541-548.	5.5	46
435	The effect of alkali metal chlorides and temperature on acid-hydrolysis residual pyrolysis products. Journal of Analytical and Applied Pyrolysis, 2019, 137, 106-117.	5.5	17
436	The potential impact of unsaturation degree of the biodiesels obtained from beverage and food processing biomass streams on the performance, combustion and emission characteristics in a single-cylinder CI engine. Environmental Science and Pollution Research, 2019, 26, 5008-5019.	5.3	6

#	ARTICLE	IF	CITATIONS
437	Current situation of biofuel production and its enhancement by CRISPR/Cas9-mediated genome engineering of microbial cells. <i>Microbiological Research</i> , 2019, 219, 1-11.	5.3	40
438	Engineered biochar composite fabricated from red mud and lipid waste and synthesis of biodiesel using the composite. <i>Journal of Hazardous Materials</i> , 2019, 366, 293-300.	12.4	31
439	An overview on the light alcohol fuels in diesel engines. <i>Fuel</i> , 2019, 236, 890-911.	6.4	204
440	Measuring biomass fast pyrolysis kinetics: State of the art. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2019, 8, e326.	4.1	37
441	Polymer Electrolyte Membrane Technologies Integrated With Renewable Energy for Hydrogen Production. , 2019, , 235-259.		15
442	Methane productivity evaluation of an invasive wetland plant, common reed. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 689-695.	4.6	24
443	Thermal comfort in high altitude Himalayan residential houses in Darjeeling, India – An adaptive approach. <i>Indoor and Built Environment</i> , 2020, 29, 84-100.	2.8	24
444	Recent advances in the catalytic pyrolysis of microalgae. <i>Catalysis Today</i> , 2020, 355, 263-271.	4.4	59
445	Innovations in Sustainable Energy and Cleaner Environment. <i>Green Energy and Technology</i> , 2020, , .	0.6	6
446	Biofuels: Past, Present, Future. <i>Green Energy and Technology</i> , 2020, , 489-504.	0.6	5
447	The Production of Biogas, Biodiesel as High-Value Bio-Based Product and Multiple Bio-Products Through an Integration Approach of the Anaerobic Digestion and Fermentation Processes. , 2020, , 686-694.		1
448	Recent progress of metals supported catalysts for hydrodeoxygenation of biomass derived pyrolysis oil. <i>Journal of Cleaner Production</i> , 2020, 253, 119957.	9.3	74
449	Economic viability and environmental impact investigation for the biofuel supply chain using co-fermentation technology. <i>Applied Energy</i> , 2020, 259, 114235.	10.1	22
450	Direct Lewis-Brønsted acid ethanolysis of sewage sludge for production of liquid fuels. <i>Applied Energy</i> , 2020, 259, 114163.	10.1	31
451	Screening suitable refinery distillates for blending with HTL bio-crude and evaluating the co-processing potential at petroleum refineries. <i>Energy Conversion and Management</i> , 2020, 222, 113186.	9.2	16
452	Thermochemical liquefaction of agricultural and forestry wastes into biofuels and chemicals from circular economy perspectives. <i>Science of the Total Environment</i> , 2020, 749, 141972.	8.0	63
453	Research trends in life cycle assessment research: A 20-year bibliometric analysis (1999–2018). <i>Environmental Impact Assessment Review</i> , 2020, 85, 106461.	9.2	23
454	Biomass Pyrolysis Liquefaction Technique: State of Research and Development Trends. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 558, 022016.	0.3	3

#	ARTICLE	IF	CITATIONS
455	Thermochemical conversion routes of hydrogen production from organic biomass: processes, challenges and limitations. Biomass Conversion and Biorefinery, 2023, 13, 8509-8534.	4.6	16
456	Preparation of reduced Ni-Nb-O composite hydrogenation catalysts for highly selective conversion of free fatty acids to n-alkanes. Fuel, 2020, 282, 118842.	6.4	9
457	Biodiesel from microalgae. , 2020, , 329-371.		2
458	Implications of feeding or cofeeding bio-oil in the fluid catalytic cracker (FCC) in terms of regeneration kinetics and energy balance. Energy, 2020, 209, 118467.	8.8	9
459	A Robust Approach for Cooperation and Coopetition of Bio-Refineries Under Government Interventions by Considering Sustainability Factors. IEEE Access, 2020, 8, 155873-155890.	4.2	8
460	Selected Fuel Properties of Alcohol and Rapeseed Oil Blends. Energies, 2020, 13, 3821.	3.1	4
461	Profiling of Organic Compounds in Bioethanol Samples of Different Nature and the Related Fractions. ACS Omega, 2020, 5, 20912-20921.	3.5	12
462	Valorizing Plastic-Contaminated Waste Streams through the Catalytic Hydrothermal Processing of Polypropylene with Lignocellulose. ACS Omega, 2020, 5, 20586-20598.	3.5	21
463	Progress in Modeling of Biomass Fast Pyrolysis: A Review. Energy & Fuels, 2020, 34, 15195-15216.	5.1	40
464	A Kraft Mill-Integrated Hydrothermal Liquefaction Process for Liquid Fuel Co-Production. Processes, 2020, 8, 1216.	2.8	7
465	The characterisation of biochar and biocrude products of the hydrothermal liquefaction of raw digestate biomass. Biomass Conversion and Biorefinery, 2021, 11, 2947-2961.	4.6	21
466	Oxidative stress, biotransformation enzymes and histopathological alterations in Nile tilapia (<i>Oreochromis niloticus</i>) exposed to new and used automotive lubricant oil. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 234, 108770.	2.6	8
467	Corrosion Susceptibility of Cr-Mo Steels and Ferritic Stainless Steels in Biomass-Derived Pyrolysis Oil Constituents. Energy & Fuels, 2020, 34, 6220-6228.	5.1	18
468	Exhaust gas recirculation with highly oxygenated fuels in gas turbines. Fuel, 2020, 278, 118285.	6.4	17
469	CO ₂ -Mediated catalytic pyrolysis of rice straw for syngas production and power generation. Energy Conversion and Management, 2020, 220, 113057.	9.2	25
470	Fuzzy modeling and particle swarm optimization for determining the optimal operating parameters to enhance the bio-methanol production from sugar cane bagasse. International Journal of Energy Research, 2020, 44, 8964-8973.	4.5	34
471	Editorial Catalysts: Special Issue on Catalytic Pyrolysis. Catalysts, 2020, 10, 487.	3.5	0
472	Torrefaction as a Pretreatment Technology for Chlorine Elimination from Biomass: A Case Study Using Eucalyptus globulus Labill. Resources, 2020, 9, 54.	3.5	23

#	ARTICLE	IF	CITATIONS
473	Energy recovery from biomass using gasification. , 2020, , 363-382.		9
474	Biofuel Production Technologies: Critical Analysis for Sustainability. Clean Energy Production Technologies, 2020, , .	0.5	6
475	Biomass conversion processes. , 2020, , 41-151.		2
476	Production of biofuels from sorghum. Renewable and Sustainable Energy Reviews, 2020, 124, 109769.	16.4	88
477	Production of microalgal biochar and reducing sugar using wet torrefaction with microwave-assisted heating and acid hydrolysis pretreatment. Renewable Energy, 2020, 156, 349-360.	8.9	59
478	Durable Mn(II)Cr(III)Ox composites-supported Ni-based catalysts with wide dynamic range for hydrogen production via auto-thermal reforming of acetic acid. Fuel, 2020, 278, 118227.	6.4	10
479	Bioethanol production from acid pretreated microalgal hydrolysate using microwave-assisted heating wet torrefaction. Fuel, 2020, 279, 118435.	6.4	55
480	Overview of polyoxymethylene dimethyl ether additive as an eco-friendly fuel for an internal combustion engine: Current application and environmental impacts. Science of the Total Environment, 2020, 715, 136849.	8.0	68
481	Bioethanol production from sunflower stalk: application of chemical and biological pretreatments by response surface methodology (RSM). Biomass Conversion and Biorefinery, 2021, 11, 1759-1773.	4.6	75
482	Bifunctional metallic-acidic mechanisms of hydrodeoxygenation of eugenol as lignin model compound over supported Cu, Ni, Pd, Pt, Rh and Ru catalyst materials. Chemical Engineering Journal, 2020, 394, 124914.	12.7	49
483	Enhancing bioproduction and thermotolerance in <i>Saccharomyces cerevisiae</i> via cell immobilization on biochar: Application in a citrus peel waste biorefinery. Renewable Energy, 2020, 155, 53-64.	8.9	29
484	A review on catalytic & non-catalytic bio-oil upgrading in supercritical fluids. Frontiers of Chemical Science and Engineering, 2021, 15, 4-17.	4.4	22
485	Use of <i>Euphorbia</i> sp. (Euphorbiaceae) as biofuel feedstock for semi-arid and arid lands. Biofuels, 2021, 12, 511-521.	2.4	6
486	Alkylation of lignin-derived aromatic oxygenates with cyclic alcohols on acidic zeolites. Applied Catalysis B: Environmental, 2021, 281, 119424.	20.2	16
487	Biomass, biorefinery, and biofuels. , 2021, , 51-87.		6
488	Catalytic hydrothermal liquefaction of biomass into bio-oils and other value-added products – A review. Fuel, 2021, 285, 119053.	6.4	95
489	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. Renewable and Sustainable Energy Reviews, 2021, 135, 110033.	16.4	176
490	A state-of-the-art review on emission characteristics of SI and CI engines fueled with 2,5-dimethylfuran biofuel. Environmental Science and Pollution Research, 2021, 28, 4918-4950.	5.3	20

#	ARTICLE	IF	CITATIONS
491	Thermomorphic Polyethyleneâ€Supported Organocatalysts for the Valorization of Vegetable Oils and CO ₂ . Advanced Sustainable Systems, 2021, 5, 2000218.	5.3	11
492	Predictive capability evaluation and optimization of sustainable biodiesel production from oleaginous biomass grown on pulp and paper industrial wastewater. Renewable Energy, 2021, 168, 204-215.	8.9	21
493	Organic groups-regulated high-efficiency catalysis of hybrid Ti-Containing mesoporous silicates for Bi-Phase interfacial epoxidation. Microporous and Mesoporous Materials, 2021, 310, 110668.	4.4	4
494	Thermochemical Conversion of Biomass and Upgrading of Bio-Products to Produce Fuels and Chemicals. , 2021, , 1-47.		0
495	The role of using bioalcohol fuels in sustainable development. , 2021, , 133-146.		2
496	Design improvement and experimental study on shell and tube condenser for bio-oil recovery from fast pyrolysis of wheat straw biomass. SN Applied Sciences, 2021, 3, 1.	2.9	1
497	A review on key design and operational parameters to optimize and develop hydrothermal liquefaction of biomass for biorefinery applications. Green Chemistry, 2021, 23, 1404-1446.	9.0	117
498	The Role of Group VIII Metals in Hydroconversion of Lignin to Value-Added Chemicals and Biofuels. , 2021, , 739-765.		2
499	Edible bio-oil production from microalgae and application of nano-technology. , 2021, , 91-116.		2
500	The effect of low-grade bioethanol and oxygenated cyclooctanol additive utilization on motor makara's specific fuel consumption and coefficient of variation. AIP Conference Proceedings, 2021, , .	0.4	0
501	Usefulness of selected annual plants cultivated for more energy content biomass production purposes in a temperate climate. , 2021, , 3-37.		1
502	Techno-economic and environmental assessment of BECCS in fuel generation for FT-fuel, bioSNG and OME _x . Sustainable Energy and Fuels, 2021, 5, 3382-3402.	4.9	12
503	Bioethanol Production from Biodiesel-Derived Glycerol: A Case Study. Clean Energy Production Technologies, 2021, , 231-248.	0.5	1
504	Review of performance analysis of green engine fueled with gasoline blended bio-fuel. AIP Conference Proceedings, 2021, , .	0.4	0
505	Erzincan ili hayvansal atâk kaynaklı± biyogaz potansiyelinin deÄ¶erlendirilmesine y¶nelik biyogaz tesisi senaryolarÄ±. GÄ¼mÄ¼Ä¶hane Äœniversitesi Fen Bilimleri Enstitüsü Dergisi, 0, , .	0.0	3
506	Selective catalytic oxidation of diglycerol. Green Chemistry, 2021, 23, 1154-1159.	9.0	0
507	Analysis of plant oil-based fuel characteristics for green supply chains. , 2021, , 107-123.		1
509	RECENT APPLICATIONS AND INNOVATIONS OF CELLULOSE BASED MATERIALS: A CRITICAL REVIEW. Cellulose Chemistry and Technology, 2021, 55, 1-12.	1.2	10

#	ARTICLE	IF	CITATIONS
510	Bioenergy Potential of Turkey's Forest Sources, Biomass Energy Conversion Methods, Products, and Applications. , 0, , .		2
511	Assessment of ion exchange resins as catalysts for the direct transformation of fructose into butyl levulinate. Applied Catalysis A: General, 2021, 612, 117988.	4.3	22
512	Physicochemical Properties of Biobutanol as an Advanced Biofuel. Materials, 2021, 14, 914.	2.9	18
513	Synthesis of Imidazoles from Fatty 1,2-Diketones. European Journal of Organic Chemistry, 2021, 2021, 1647-1652.	2.4	9
514	Evaluation of Algae-Based Biodiesel Production Topologies via Inherent Safety Index (ISI). Applied Sciences (Switzerland), 2021, 11, 2854.	2.5	1
515	A review on the characteristic of biomass and classification of bioenergy through direct combustion and gasification as an alternative power supply. Journal of Physics: Conference Series, 2021, 1831, 012033.	0.4	30
516	Residual Birch Wood Lignocellulose after 2-Furaldehyde Production as a Potential Feedstock for Obtaining Fiber. Polymers, 2021, 13, 1816.	4.5	7
517	Demineralization of Miscanthus Biocrude Obtained from Catalytic Hydrothermal Liquefaction: Conditioning through Acid Washing. Processes, 2021, 9, 1035.	2.8	5
518	Conversion of levulinic acid to valuable chemicals: a review. Journal of Chemical Technology and Biotechnology, 2021, 96, 3009-3024.	3.2	29
519	Pore Blocking by Phenolates as Deactivation Path during the Cracking of 4-Propylphenol over ZSM-5. Catalysts, 2021, 11, 721.	3.5	8
520	Enzymatic Hydrolysis and Fermentation of Banana Pseudostem Hydrolysate to Produce Bioethanol. International Journal of Microbiology, 2021, 2021, 1-14.	2.3	7
521	Evaluation and Characterization of Timber Residues of Pinus spp. as an Energy Resource for the Production of Solid Biofuels in an Indigenous Community in Mexico. Forests, 2021, 12, 977.	2.1	9
522	New Polish Oilseed Hemp Cultivar Henola " Cultivation, Properties and Utilization for Bioethanol Production. Journal of Natural Fibers, 2022, 19, 7283-7295.	3.1	6
523	Engine performance and PM concentrations from the combustion of Iraqi sunflower oil biodiesel under variable diesel engine operating conditions. Journal of Physics: Conference Series, 2021, 1973, 012051.	0.4	5
524	A review on environmental and socioeconomic perspectives of three promising biofuel plants Jatropha curcas, Pongamia pinnata and Mesua ferrea. Biomass and Bioenergy, 2021, 151, 106173.	5.7	23
525	Biofuels: An alternative to conventional fuel and energy source. Materials Today: Proceedings, 2022, 48, 1178-1184.	1.8	36
526	Conversion of levulinic acid to levulinate ester biofuels by heterogeneous catalysts in the presence of acetals and ketals. Applied Catalysis B: Environmental, 2021, 293, 120219.	20.2	30
527	Policy, regulation, development and future of biodiesel industry in Brazil. Cleaner Engineering and Technology, 2021, 4, 100197.	4.0	16

#	ARTICLE	IF	CITATIONS
528	Production of ethyl levulinate fuel bioadditive from 5-hydroxymethylfurfural over sulfonic acid functionalized biochar catalysts. <i>Fuel</i> , 2021, 303, 121227.	6.4	28
529	Third-generation biofuel supply chain: A comprehensive review and future research directions. <i>Journal of Cleaner Production</i> , 2021, 323, 129100.	9.3	38
530	Hydrodeoxygenation of guaiacol over BEA supported bimetallic Ni-Fe catalysts with varied impregnation sequence. <i>Journal of Catalysis</i> , 2021, 404, 1-11.	6.2	23
531	Critical review on combustion phenomena of low carbon alcohols in SI engine with its challenges and future directions. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111702.	16.4	26
532	Hydrocarbon biorefinery: A sustainable approach. , 2022, , 1-44.		2
533	Bioprocessing of lignocellulosic biomass to biofuels. , 2022, , 131-164.		0
535	Production, Upgrading and Analysis of Bio-oils Derived from Lignocellulosic Biomass. , 2015, , 1219-1250.		1
536	Effect of Heterogeneous Catalyst on Esterification of Pyrolysis Oil. <i>Springer Proceedings in Energy</i> , 2018, , 219-229.	0.3	4
537	Bio-Oil and Pyrolytic Oil. <i>Green Energy and Technology</i> , 2019, , 181-219.	0.6	1
538	Biofuels Generation Based on Technical Process and Biomass Quality. <i>Clean Energy Production Technologies</i> , 2020, , 37-64.	0.5	6
539	Biofuel: Types and Process Overview. <i>Clean Energy Production Technologies</i> , 2020, , 1-28.	0.5	2
540	Introduction to Pyrolysis as a Thermo-Chemical Conversion Technology. <i>Biofuels and Biorefineries</i> , 2020, , 3-30.	0.5	6
541	Plasma-enabled liquefaction of lignocellulosic biomass: Balancing feedstock content for maximum energy yield. <i>Renewable Energy</i> , 2020, 157, 1061-1071.	8.9	18
542	Optimization of the Process Parameters for Hydrotreating Used Cooking Oil by the Taguchi Method and Fuzzy Logic. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	6
543	Optimization of Biodiesel Production by Response Surface Methodology and Genetic Algorithm. <i>Journal of ASTM International</i> , 2012, 9, 1-7.	0.2	9
544	Influence of Palm Methyl Ester (PME) as an Alternative Fuel in Multicylinder Diesel Engine. <i>Journal of Mechanical Engineering and Sciences</i> , 2012, 3, 331-339.	0.6	22
545	Flashing Light as Growth Stimulant in Cultivation of Green Microalgae, <i>Chlorella</i> sp. Utilizing Airlift Photobioreactor. <i>Pakistan Journal of Biological Sciences</i> , 2013, 16, 1517-1523.	0.5	9
546	Emission Aspects of Biomass-Based Advanced Second Generation Bio-Fuels in IC Engines. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2020, , 44-64.	1.0	2

#	ARTICLE	IF	CITATIONS
547	Analysis of Gasoline Surrogate Combustion Chemistry with a Skeletal Mechanism. , 0, , .		6
548	Thermo-Chemical Conversion of Jatropha Deoiled Cake: Pyrolysis vs. Gasification. International Journal of Chemical Engineering and Applications (IJCEA), 2015, 6, 376-380.	0.3	14
549	A Comprehensive Review and Status of Renewable Resources and Oil & Gas Under the Supply and Demand Dynamics in the World. , 2021, , .		3
550	A comparative analysis of the characteristics of the water removal processes in preparation for incineration of typical wood waste and forest combustible materials. Energy, 2022, 239, 122362.	8.8	4
551	A Short Review on Catalyst, Feedstock, Modernised Process, Current State and Challenges on Biodiesel Production. Catalysts, 2021, 11, 1261.	3.5	28
552	Effect of Different Solvents on Cypress Liquefaction to Fuels and Characterization of Products. BioResources, 2013, 8, .	1.0	0
553	Biorefinery. , 2014, , 1-2.		0
554	Sustainable Development and Turkey's Biomass Energy Potential. Advances in Finance, Accounting, and Economics, 2014, , 335-358.	0.3	0
555	Extraction of Lignin from Biomass for Biofuel Production. , 2015, , 391-402.		3
556	Environmental biotechnology for the treatment of waste effluents from biofuels production. , 2015, , .		0
558	The Impact of the Euro Area Macroeconomy on Global Commodity Prices. Argumenta Oeconomica Cracoviensia, 2016, , 59-77.	0.2	0
559	Study on Effect of Phase Separation of Bioethanol Blends Fuel by Water Contents. Transactions of the Korean Hydrogen and New Energy Society, 2016, 27, 712-720.	0.6	0
560	Sustainable Development and Turkey's Biomass Energy Potential. , 2017, , 494-518.		0
561	Biomethanol Production from the Glycerol Byproduct of the Biodiesel Production Process, a Proposition. DEStech Transactions on Engineering and Technology Research, 2018, , .	0.0	2
562	SLOW PYROLYSIS OF RICE STRAW: ANALYSIS OF BIOCHAR, BIO-OIL AND GAS. Southern Brazilian Journal of Chemistry, 2018, 26, 17-25.	0.2	1
563	Bioproduct Engineering Solution to Sustainable Energy's Retrospection. Lecture Notes in Civil Engineering, 2019, , 291-305.	0.4	0
564	Production of Liquid Biofuels from Biomass. Green Energy and Technology, 2019, , 1-33.	0.6	1
566	Control predictivo aplicado a un proceso de producción continua de biodiesel. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2019, 16, 296.	1.0	1

#	ARTICLE	IF	CITATIONS
567	Green Photocatalyst for Diverge Applications. Environmental Chemistry for A Sustainable World, 2020, , 1-18.	0.5	1
568	Supercritical Solvent Composition Influence on Bio-oil Model Compound Deoxygenation. Bulletin of Science and Practice, 2019, 5, 18-25.	0.0	0
569	Experimental and simulation study of the high pressure oxidation of dimethyl carbonate. Fuel, 2022, 309, 122154.	6.4	2
570	Sustainability assessment of third-generation biofuels. , 2022, , 523-534.		3
571	In-depth analysis of waste cooking oil as renewable and ecofriendly biofuel candidate. , 2022, , 87-103.		1
572	Economical aspect in biomass to biofuel production. , 2022, , 395-427.		6
573	Integrated Catalytic Hydrolysis and Complete Conversion of Three Crop Stalks to Valuable Oxygenated Organic Chemicals. SSRN Electronic Journal, 0, , .	0.4	0
574	Characteristics and evolution of heavy components in bio-oil from the pyrolysis of cellulose, hemicellulose and lignin. Renewable and Sustainable Energy Reviews, 2022, 157, 111989.	16.4	82
575	Highly Efficient Al-Doped Niâ€“Mnâ€“O Catalysts for Auto-Thermal Reforming of Acetic Acid: Role of MnAl ₂ O ₄ for Stability of Ni Species. Energy & Fuels, 2020, 34, 14647-14655.	5.1	2
576	Nanotechnology: application and potentials for heterogeneous catalysis. , 2022, , 231-263.		0
577	Multistep Structural and Chemical Evaluation of Sugarcane Baggase, Pretreated With Alkali for Enhancing the Enzymatic Saccharification by Cellulase and Xylanase of the Pseudomonas sp. CVB-10 (MK443365) and Bacillus paramycoides T4 (MN370035) Mix-Culture System. Frontiers in Energy Research, 2022, 9, .	2.3	3
578	Effects of temperature and time on supercritical methanol Co-Liquefaction of rice straw and linear low-density polyethylene wastes. Energy, 2022, 245, 123315.	8.8	10
579	Pyrolysis of rice husk using CO ₂ for enhanced energy production and soil amendment. Energy and Environment, 2023, 34, 873-885.	4.6	3
581	Slow pyrolysis of waste navel orange peels with metal oxide catalysts to produce high-grade bio-oil. Green Processing and Synthesis, 2022, 11, 218-228.	3.4	4
582	Current Status of Renewable Energy Development. Green Energy and Technology, 2022, , 1-19.	0.6	0
583	Advanced biofuels: Deoxygenation and hydrodeoxygenation catalytic reaction. , 2022, , 219-237.		2
584	One-step catalytic pyrolysis of pre-treated rice straw to biofuel over waste-extracted Niâ€“H ₃ PW ₁₂ O ₄₀ activated nano-catalyst. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	3.3	0
585	Lignocellulosic Materials for the Production of Biofuels, Biochemicals and Biomaterials and Applications of Lignocellulose-Based Polyurethanes: A Review. Polymers, 2022, 14, 881.	4.5	26

#	ARTICLE	IF	CITATIONS
586	Spray Characteristics of Bioethanol-Blended Fuel under Various Temperature Conditions Using Laser Mie Scattering and Optical Illumination. <i>Fuels</i> , 2022, 3, 207-216.	2.7	1
587	Thermochemical conversion processes of <i>Dichrostachys cinerea</i> as a biofuel: A review of the Cuban case. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 160, 112322.	16.4	5
588	Characterization of Birch Wood Residue after 2-Furaldehyde Obtaining, for Further Integration in Biorefinery Processing. <i>Polymers</i> , 2021, 13, 4366.	4.5	5
589	Integrated catalytic hydroconversion of three crop stalks to valuable oxygenated organic chemicals. <i>Fuel</i> , 2022, 322, 124149.	6.4	7
590	Biogas Production Potential of Thermophilic Anaerobic Biodegradation of Organic Waste by a Microbial Consortium Identified with Metagenomics. <i>Life</i> , 2022, 12, 702.	2.4	10
591	Upgrading biocrudes derived from agricultural biomass into advanced biofuels: Perspective from Malaysia. <i>Fuel</i> , 2022, 323, 124300.	6.4	7
592	Preliminary XFEL data from spontaneously grown endo-1,4- β -xylanase crystals from <i>Hypocrea virens</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2022, 78, 226-231.	0.8	7
594	Process intensification in biobutanol production. , 2022, , 223-262.		1
595	Transformation of 1-G and 2-G liquid biomass to green fuels using hydroprocessing technology: A promising technology for biorefinery development. <i>Biomass and Bioenergy</i> , 2022, 163, 106510.	5.7	7
596	Levulinic acid: a potent green chemical in sustainable agriculture. , 2022, , 179-218.		1
597	Applications of Nanotechnology in Biofuel Production. <i>Clean Energy Production Technologies</i> , 2022, , 297-332.	0.5	1
598	Potential of biofuels production from wheat straw biomass, current achievements and perspectives: a review. <i>Biofuels</i> , 2023, 14, 79-92.	2.4	6
599	Alternative Fuels for Agriculture Sustainability: Carbon Footprint and Economic Feasibility. <i>AgriEngineering</i> , 2022, 4, 993-1015.	3.2	14
600	In-situ catalytic hydro-liquefaction of <i>Delonix regia</i> lignocellulosic biomass waste in hydrogen-donor solvent. <i>Results in Engineering</i> , 2022, 16, 100734.	5.1	9
601	Kinetic insights into deoxygenation of vegetable oils to produce second-generation biodiesel. <i>Fuel</i> , 2023, 333, 126416.	6.4	5
602	Recent advances in technological developments to produce oxygenated biocrudes via hydrothermal liquefaction followed by their catalytic upgradation. , 2023, , 27-59.		0
603	A novel strategy for rapid identification of pyrolytic synergy and prediction of product yield: Insight into co-pyrolysis of xylan and polyethylene. <i>Chemical Engineering Journal</i> , 2023, 453, 139958.	12.7	3
604	Conversion of lignin oil and hemicellulose derivative into high-density jet fuel. <i>Journal of Energy Chemistry</i> , 2023, 77, 452-460.	12.9	24

#	ARTICLE	IF	CITATIONS
605	Dynamics of freight transport decarbonisation: a conceptual model. Journal of Simulation, 0, , 1-19.	1.5	3
606	An Experimental Study of 2-Propanol Pyrolysis Chemistry. Journal of Physical Chemistry A, 2022, 126, 9097-9107.	2.5	2
607	Sorghum (Sorghum bicolor L. Moench) and Its Main Parts (By-Products) as Promising Sustainable Sources of Value-Added Ingredients. Waste and Biomass Valorization, 2023, 14, 1023-1044.	3.4	6
608	Corrosion Compatibility of Stainless Steels and Nickel in Pyrolysis Biomass-Derived Oil at Elevated Storage Temperatures. Sustainability, 2023, 15, 22.	3.2	3
609	Selective hydrodeoxygenation of lignin-derived phenols to alkyl cyclohexanols over highly dispersed RuFe bimetallic catalysts. Fuel, 2023, 339, 126916.	6.4	10
610	Potential biofuel exploitation from two common Vietnamese <i>Euphorbia</i> plants (Euphorbiaceae). Biofuels, Bioproducts and Biorefining, 2023, 17, 1315-1327.	3.7	0
611	Biomass Pyrolysis Followed by Catalytic Hybrid Reforming for Syngas Production. Waste and Biomass Valorization, 2023, 14, 2715-2743.	3.4	2
612	Oleaginous yeasts for biochemicals, biofuels and food from lignocellulose hydrolysate and crude glycerol. Yeast, 2023, 40, 290-302.	1.7	6
613	Applications of Nanomaterials in Liquid Biofuels Production. Clean Energy Production Technologies, 2023, , 21-42.	0.5	0
614	Hydrothermal treatment of plastic waste within a circular economy perspective. Sustainable Chemistry and Pharmacy, 2023, 32, 100991.	3.3	12
615	Bioethanol – A promising alternative fuel for sustainable future. , 2023, , 179-196.		0
616	Co-processing of fossil feedstock with lignin-derived model compound isoeugenol over Fe-Ni/H-Y-5.1 catalysts. Journal of Catalysis, 2023, 421, 101-116.	6.2	4
617	Enhanced microalgal lipid production for biofuel using different strategies including genetic modification of microalgae: A review. Progress in Energy and Combustion Science, 2023, 96, 101071.	31.2	59
618	Advantages of using nanobiotechnology in enhancing the economic status of the country. , 2023, , 369-392.		1
619	Research progress, trends, and future prospects on hydrothermal liquefaction of algae for biocrude production: a bibliometric analysis. Biomass Conversion and Biorefinery, 0, , .	4.6	3
620	Optimal planning of biofuel supply chains incorporating temporality of unconventional bioresources. Environment, Development and Sustainability, 2024, 26, 7715-7733.	5.0	1
621	Cultivation of Pseudochlorella pringsheimii for biodiesel production in a scalable indoor photobioreactor: case studies from Egypt. Journal of Genetic Engineering and Biotechnology, 2023, 21, 25.	3.3	1
622	An Ecological Toilet System Incorporated with a Hydrothermal Liquefaction Process. Sustainability, 2023, 15, 6373.	3.2	0

#	ARTICLE	IF	CITATIONS
623	Algal bioenergy. , 2023, , 409-432.		1
624	Investigation of the determinants of the consumption of biofuels by Greek consumers. Biofuels, 2023, 14, 1053-1060.	2.4	0
625	Understanding the influence of solvents on the Pt-catalyzed hydrodeoxygenation of guaiacol. Journal of Catalysis, 2023, 425, 212-232.	6.2	2
626	Comparative environmental and economic life cycle assessment of phytoremediation of dredged sediment using Arundo Donax, integrated with biomass to bioenergy valorization chain. Science of the Total Environment, 2023, 903, 166160.	8.0	2
627	Hemp Biomass as a Raw Material for Sustainable Development. Applied Sciences (Switzerland), 2023, 13, 9733.	2.5	1
628	Production of Biofuels from Glycerol from the Biodiesel Production Processâ€”A Brief Review. Fermentation, 2023, 9, 869.	3.0	1
629	Biomaterial-based waste for membranes and energy applications. , 2023, , 333-369.		0
630	Fast pyrolysis simulation via kinetic approach and multivariate analysis to assess the effect of biomass properties on product yields, properties, and pyrolyzer performance. Energy Conversion and Management, 2023, 296, 117676.	9.2	1
631	Structural tenets of efficient bioeconomy and role of biofuels. , 2024, , 503-536.		1
632	Group contribution method for predicting viscosity of alkyl esters and biodiesel. Fuel, 2024, 357, 129666.	6.4	2
633	Mechanisms, methods and applications of machine learning in bio-alcohol production and utilization: A review. Chemosphere, 2023, 342, 140191.	8.2	0
634	Review on Fast Pyrolysis of Biomass for Biofuel Production from Date Palm. Applied Sciences (Switzerland), 2023, 13, 10463.	2.5	1
635	Development of Processes and Catalysts for Biomass to Hydrocarbons at Moderate Conditions: A Comprehensive Review. Nanomaterials, 2023, 13, 2845.	4.1	0
636	Principles of Photocatalysts and Their Different Applications: A Review. Topics in Current Chemistry, 2023, 381, .	5.8	6
637	Performance and combustion of characteristics of diesel fuel with ethanol RME and Jatropha oil. AIP Conference Proceedings, 2023, , .	0.4	0
638	Pretreatment of pine needles via torrefaction, oxidation and hydrothermal carbonization at 250Â°C impacts subsequent pyrolysis and activation in distinct ways. Journal of Environmental Chemical Engineering, 2024, 12, 111639.	6.7	0
639	The economic and environmental sustainability of converting Miscanthus to hydrocarbon biofuel by pyrolysis and catalytic hydrotreatment. Biomass and Bioenergy, 2024, 181, 107041.	5.7	0
640	Theoretical and experimental study of 5-ethoxymethylfurfural and ethyl levulinate production from cellulose. Chemical Engineering Journal, 2024, 480, 148093.	12.7	2

#	ARTICLE	IF	CITATIONS
641	Characterization of Biocrude Produced by Hydrothermal Liquefaction of Municipal Sewage Sludge in a 500 mL Batch Reactor. Industrial & Engineering Chemistry Research, 2024, 63, 955-967.	3.7	1
642	Maximised bioethanol extraction from bamboo biomass through alkali pretreatment and enzymatic saccharification by application of ANN-NSGA-II-based optimisation method. Environment, Development and Sustainability, 0, , .	5.0	0
643	Co-Valorisation Energy Potential of Wastewater Treatment Sludge and Agroforestry Waste. Environments - MDPI, 2024, 11, 14.	3.3	0
645	Techno-economics and environmental sustainability of agricultural biomass-based energy potential. Applied Energy, 2024, 359, 122662.	10.1	0
647	Biotechnology of biofuels: bioethanol and biodiesel. , 2024, , 219-236.		0