

Bio-fuels from thermochemical conversion of renewabl

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Citation Report

#	ARTICLE	IF	CITATIONS
1	CO2 bio-mitigation using microalgae. Applied Microbiology and Biotechnology, 2008, 79, 707-718.	1.7	983
2	Online upgrading of organic vapors from the fast pyrolysis of biomass. Journal of Fuel Chemistry and Technology, 2008, 36, 666-671.	0.9	41
3	The effects of different catalysts on the pyrolysis of industrial wastes (olive and hazelnut bagasse). Bioresource Technology, 2008, 99, 8002-8007.	4.8	118
4	Development and validation of a multi-zone combustion model for performance and nitric oxide formation in syngas fueled spark ignition engine. Energy Conversion and Management, 2008, 49, 2924-2938.	4.4	87
5	PRODUCTION OF BIOFUEL FROM SOFT SHELL OF PISTACHIO ( <i>PISTACIA VERA</i> L.). Chemical Engineering Communications, 2008, 196, 104-115.	1.5	65
6	Direct Conversion of Sunflower Shells to Alkanes and Aromatic Compounds. Energy & Fuels, 2008, 22, 3517-3522.	2.5	34
7	Cooperative Water Network System to Reduce Carbon Footprint. Environmental Science & Technology, 2008, 42, 6230-6236.	4.6	25
8	Evaluation of the Role of the Pyrolysis Temperature in Straw Biomass Samples and Characterization of the Oils by GC/MS. Energy & Fuels, 2008, 22, 1936-1943.	2.5	97
9	Thermal Conversion of Mixed Wastes From Biodiesel Manufacturing for Production of Fuel Gas. , 2009, , .		0
11	Transport Biofuels: Their Characteristics, Production and Costs. Green Energy and Technology, 2009, , 1-48.	0.4	0
12	Main routes for the thermo-conversion of biomass into fuels and chemicals. Part 1: Pyrolysis systems. Energy Conversion and Management, 2009, 50, 3147-3157.	4.4	521
13	Review of the pyrolysis platform for coproducing bio-oil and biochar. Biofuels, Bioproducts and Biorefining, 2009, 3, 547-562.	1.9	554
14	Aromatic Production from Catalytic Fast Pyrolysis of Biomass-Derived Feedstocks. Topics in Catalysis, 2009, 52, 241-252.	1.3	621
15	Bio-coke from upgrading of pyrolysis bio-oil for co-firing. Fuel, 2009, 88, 2340-2347.	3.4	26
16	Deoxygenation of benzaldehyde over CsNaX zeolites. Journal of Molecular Catalysis A, 2009, 312, 78-86.	4.8	46
17	Energy Recycling by Co-Combustion of Coal and Recovered Paint Solids from Automobile Paint Operations. Journal of the Air and Waste Management Association, 2009, 59, 560-567.	0.9	4
18	Simulation of Methanol Production from Biomass Gasification in Interconnected Fluidized Beds. Industrial & Engineering Chemistry Research, 2009, 48, 5351-5359.	1.8	66
19	Bio-oil from Pyrolysis of Black Alder Wood. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2009, 31, 1719-1727.	1.2	31

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20	Pyrolysis of laurel ( <i>Laurus nobilis</i> L.) extraction residues in a fixed-bed reactor: Characterization of bio-oil and bio-char. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 88, 22-29.	2.6	179
21	Thermogravimetric analysis of longan seed biomass with a two-parallel reactions model. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 791-801.	1.2	14
22	Catalytic fast pyrolysis of glucose with HZSM-5: The combined homogeneous and heterogeneous reactions. <i>Journal of Catalysis</i> , 2010, 270, 110-124.	3.1	397
23	Transition Metalâ€Tungsten Bimetallic Catalysts for the Conversion of Cellulose into Ethylene Glycol. <i>ChemSusChem</i> , 2010, 3, 63-66.	3.6	296
25	Biofuels from microalgaeâ€A review of technologies for production, processing, and extractions of biofuels and co-products. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 557-577.	8.2	3,850
26	The comparison of hazelnut shell co-pyrolysis with polyethylene oxide and previous ultra-high molecular weight polyethylene. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 87, 263-268.	2.6	12
27	Synthetic fuel production from tea waste: Characterisation of bio-oil and bio-char. <i>Fuel</i> , 2010, 89, 176-184.	3.4	209
28	The direct pyrolysis and catalytic pyrolysis of <i>Nannochloropsis</i> sp. residue for renewable bio-oils. <i>Bioresource Technology</i> , 2010, 101, 4593-4599.	4.8	299
29	Structures and stabilization of low calorific value gas turbulent partially premixed flames in a conical burner. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 412-419.	1.5	28
30	Effect of phenol adsorption on HY zeolite for n-heptane cracking: Comparison with methylcyclohexane. <i>Applied Catalysis A: General</i> , 2010, 385, 178-189.	2.2	32
31	Waste biomass-to-energy supply chain management: A critical synthesis. <i>Waste Management</i> , 2010, 30, 1860-1870.	3.7	288
33	Chemical production from lignocellulosic biomass: thermochemical, sugar and carboxylate platforms. , 2010, , 391-414.		7
34	Recent advances in fluidized bed technology in biomass processes. <i>Biofuels</i> , 2010, 1, 409-433.	1.4	31
35	Catalysts in Biomass Pyrolysis. <i>RSC Energy and Environment Series</i> , 2010, , 263-287.	0.2	7
36	<sup>31</sup> P-NMR analysis of bio-oils obtained from the pyrolysis of biomass. <i>Biofuels</i> , 2010, 1, 839-845.	1.4	36
37	Ionic liquid solvent properties as predictors of lignocellulose pretreatment efficacy. <i>Green Chemistry</i> , 2010, 12, 1967.	4.6	282
38	A High Temperature, High Pressure Facility for Controlled Studies of Catalytic Activity under Hydrothermal Conditions. <i>Energy &amp; Fuels</i> , 2010, 24, 2737-2746.	2.5	6
39	O-Methylation of the Phenolic Bio-oil with Dimethyl Carbonate in an Ionic Liquid [bmim]Cl. <i>Energy &amp; Fuels</i> , 2010, 24, 5722-5726.	2.5	18

#	ARTICLE	IF	CITATIONS
40	Switchgrass as an energy crop for biofuel production: A review of its ligno-cellulosic chemical properties. <i>Energy and Environmental Science</i> , 2010, 3, 1182.	15.6	194
41	General Rheological Properties of Fractionated Switchgrass Bio-Oil as a Pavement Material. <i>Road Materials and Pavement Design</i> , 2010, 11, 325-353.	2.0	67
42	Facility Location and Supply Chain Optimization for a Biorefinery. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 6276-6286.	1.8	155
43	Mechanisms and Product Specialties of the Alcoholysis Processes of Poplar Components. <i>Energy &amp; Fuels</i> , 2011, 25, 3786-3792.	2.5	18
44	Hydrothermal Liquefaction of a Microalga with Heterogeneous Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 52-61.	1.8	492
45	Optimal Planning of a Biomass Conversion System Considering Economic and Environmental Aspects. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 8558-8570.	1.8	155
46	Surface Functionality and Carbon Structures in Lignocellulosic-Derived Biochars Produced by Fast Pyrolysis. <i>Energy &amp; Fuels</i> , 2011, 25, 4693-4703.	2.5	220
47	Chemistry of Furan Conversion into Aromatics and Olefins over HZSM-5: A Model Biomass Conversion Reaction. <i>ACS Catalysis</i> , 2011, 1, 611-628.	5.5	295
48	Catalytic Steam Gasification of Biomass: Catalysts, Thermodynamics and Kinetics. <i>Chemical Reviews</i> , 2011, 111, 5404-5433.	23.0	362
50	Advances in C=O Bond Transformations in Lignin-Derived Compounds for Biofuels Production. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2280-2287.	2.1	107
51	Pyrolysis of <i>Jatropha curcas</i> L. husk: Optimization solid, liquid and gas yield by using response surface methodology (RSM). , 2011, , .		3
52	A novel approach to the biomass pyrolysis step and product lumping. <i>Computer Aided Chemical Engineering</i> , 2011, , 111-115.	0.3	2
53	Production of high-value products including gasoline hydrocarbons from the thermochemical conversion of syngas. <i>Biofuels</i> , 2011, 2, 677-691.	1.4	9
54	Survey of Genomics Approaches to Improve Bioenergy Traits in Maize, Sorghum and Sugarcane Free Access. <i>Journal of Integrative Plant Biology</i> , 2011, 53, 105-119.	4.1	82
55	Effects of parameters affecting biomass yield and thermal behaviour of <i>Chlorella vulgaris</i> . <i>Journal of Bioscience and Bioengineering</i> , 2011, 111, 377-382.	1.1	102
56	A review of catalytic upgrading of bio-oil to engine fuels. <i>Applied Catalysis A: General</i> , 2011, 407, 1-19.	2.2	1,414
57	Enhanced energy efficiency in gasification of paper-reject sludge by a mineral catalyst. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14186-14194.	3.8	24
58	Inorganic heterogeneous catalysts for biodiesel production from vegetable oils. <i>Biomass and Bioenergy</i> , 2011, 35, 3787-3809.	2.9	299

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59	Pyrolysis of black cumin seed cake in a fixed-bed reactor. <i>Biomass and Bioenergy</i> , 2011, 35, 4297-4304.	2.9	61
60	Water content of pyrolysis oil: Comparison between Karl Fischer titration, GC/MS-corrected azeotropic distillation and <sup>1</sup> H NMR spectroscopy. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 100-105.	2.6	29
61	Flash pyrolysis of rapeseed cake: Influence of temperature on the yield and the characteristics of the pyrolysis liquid. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 118-125.	2.6	57
62	Bio-oil from hydro-liquefaction of <i>Dunaliella salina</i> over Ni/REHY catalyst. <i>Bioresource Technology</i> , 2011, 102, 4580-4584.	4.8	107
63	A Framework to Report the Production of Renewable Diesel from Algae. <i>Bioenergy Research</i> , 2011, 4, 36-60.	2.2	28
64	Recent advances in the catalytic pyrolysis of biomass. <i>Frontiers of Chemical Science and Engineering</i> , 2011, 5, 188-193.	2.3	15
65	The conversion of lignocellulosics to levulinic acid. <i>Biofuels, Bioproducts and Biorefining</i> , 2011, 5, 198-214.	1.9	538
66	Catalytic upgrading of lignocellulosic biomass pyrolysis vapours: Effect of hydrothermal pre-treatment of biomass. <i>Catalysis Today</i> , 2011, 167, 37-45.	2.2	140
67	Co-deoxy-liquefaction of biomass and vegetable oil to hydrocarbon oil: Influence of temperature, residence time, and catalyst. <i>Bioresource Technology</i> , 2011, 102, 1933-1941.	4.8	38
68	A shortcut method for the preliminary synthesis of process-technology pathways: An optimization approach and application for the conceptual design of integrated biorefineries. <i>Computers and Chemical Engineering</i> , 2011, 35, 1374-1383.	2.0	110
69	Competitive liquid biofuels from biomass. <i>Applied Energy</i> , 2011, 88, 17-28.	5.1	647
70	Application of a detailed mathematical model to the gasifier unit of the dual fluidized bed gasification plant. <i>Biomass and Bioenergy</i> , 2011, 35, 2491-2498.	2.9	42
71	Leading global energy and environmental transformation: Unified ASEAN biomass-based bio-energy system incorporating the clean development mechanism. <i>Biomass and Bioenergy</i> , 2011, 35, 2479-2490.	2.9	9
72	Techno-economic performance analysis of bio-oil based Fischer-Tropsch and CHP synthesis platform. <i>Biomass and Bioenergy</i> , 2011, 35, 3218-3234.	2.9	75
73	Utilization possibilities of palm shell as a source of biomass energy in Malaysia by producing bio-oil in pyrolysis process. <i>Biomass and Bioenergy</i> , 2011, 35, 1863-1872.	2.9	226
74	Optimization of bio-diesel production from soybean and wastes of cooked oil: Combining dielectric microwave irradiation and a SrO catalyst. <i>Bioresource Technology</i> , 2011, 102, 1073-1078.	4.8	86
75	Bio-oils and FCC feedstocks co-processing: Impact of phenolic molecules on FCC hydrocarbons transformation over MFI. <i>Fuel</i> , 2011, 90, 467-476.	3.4	45
76	Decomposition and gasification of pyrolysis volatiles from pine wood through a bed of hot char. <i>Fuel</i> , 2011, 90, 1041-1048.	3.4	95

#	ARTICLE	IF	CITATIONS
77	Hydrogen production by catalysed pyrolysis of polymer blends. Fuel, 2011, 90, 2334-2339.	3.4	8
78	Liquid fuel from castor seeds by pyrolysis. Fuel, 2011, 90, 2538-2544.	3.4	115
79	Pyrolysis of wood at high temperature: The influence of experimental parameters on gaseous products. Fuel Processing Technology, 2011, 92, 837-844.	3.7	41
80	Steam pyrolysis of an industrial waste for bio-oil production. Fuel Processing Technology, 2011, 92, 879-885.	3.7	81
81	Experimental and numerical investigation of tar destruction under partial oxidation environment. Fuel Processing Technology, 2011, 92, 1513-1524.	3.7	56
82	Biomass to fuels: The role of zeolite and mesoporous materials. Microporous and Mesoporous Materials, 2011, 144, 28-39.	2.2	164
83	Comparison of slow and vacuum pyrolysis of sugar cane bagasse. Journal of Analytical and Applied Pyrolysis, 2011, 90, 18-26.	2.6	112
84	A review on process conditions for optimum bio-oil yield in hydrothermal liquefaction of biomass. Renewable and Sustainable Energy Reviews, 2011, 15, 1615-1624.	8.2	816
85	Biomass fuels for small and micro combined heat and power (CHP) systems: resources, conversion and applications. , 2011, , 88-122.		8
86	Microalgae derived biofuels and processes. , 2011, , .		0
87	Thermogravimetric Analysis of Different Biomass Materials and the Primary Biomass Components. Applied Mechanics and Materials, 0, 260-261, 187-191.	0.2	0
88	Germination Tests for Assessing Biochar Quality. Journal of Environmental Quality, 2012, 41, 1014-1022.	1.0	151
89	15 Conversion of biomass to fuels and chemicals via thermochemical processes. , 2012, , 333-362.		3
90	Production of targeted aromatics by using Dielsâ€ Alder classes of reactions with furans and olefins over ZSM-5. Green Chemistry, 2012, 14, 3114.	4.6	330
91	Review of Reactor and Catalyst in the Pyrolysis of Biomass for Liquid Fuels. Advanced Materials Research, 0, 512-515, 552-557.	0.3	0
92	Electrochemical conversion of switchgrass and poplar in molten carbonate direct carbon fuel cell. International Journal of Ambient Energy, 2012, 33, 204-208.	1.4	4
93	Cost Integration Methodology and the Forest Biorefinery. , 2012, , 152-179.		1
94	Pyrolysis of Eucalyptus wood in a fluidized-bed reactor. Research on Chemical Intermediates, 2012, 38, 2025-2039.	1.3	12

#	ARTICLE	IF	CITATIONS
95	Thermochemical processing of macroalgae: a late bloomer in the development of third-generation biofuels?. <i>Biofuels</i> , 2012, 3, 441-461.	1.4	74
96	Study on the viability of sewage sludge and <i>Jatropha Curcas</i> L. for bio-oil production. , 2012, , .		0
97	Influence of UF resin on pyrolysis characteristics of biomass components: A thermogravimetric study. , 2012, , .		3
98	Optimization of bio-diesel production from oils, cooking oils, microalgae, and castor and jatropha seeds: probing various heating sources and catalysts. <i>Energy and Environmental Science</i> , 2012, 5, 7460.	15.6	40
99	A Disjunctive Programming Formulation for the Optimal Design of Biorefinery Configurations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 3381-3400.	1.8	60
100	Thermogravimetric analysis and kinetic study of poplar wood pyrolysis. <i>Applied Energy</i> , 2012, 97, 491-497.	5.1	599
101	Fuel Gas Generation from Thermochemical Conversion of Crude Glycerol Mixed with Biomass Wastes. <i>Energy Procedia</i> , 2012, 14, 1286-1291.	1.8	15
102	Production of Bio-oil via Fast Pyrolysis of Cassava Rhizome in a Fluidised-Bed Reactor. <i>Energy Procedia</i> , 2012, 14, 668-673.	1.8	25
105	Energy from Biomass in Mauritius: Overview of Research and Applications. <i>Green Energy and Technology</i> , 2012, , 297-321.	0.4	8
106	Qualitative analysis of bio oils of agricultural residues obtained through pyrolysis using comprehensive two dimensional gas chromatography with time-of-flight mass spectrometric detector. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 98, 51-64.	2.6	70
107	Aromatics and phenols from catalytic pyrolysis of Douglas fir pellets in microwave with ZSM-5 as a catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 98, 194-200.	2.6	67
108	Catalytic upgrading of biomass pyrolysis vapors using transition metal-modified ZSM-5 zeolite. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 281-290.	10.8	444
109	Towards sustainable production of clean energy carriers from biomass resources. <i>Applied Energy</i> , 2012, 100, 172-186.	5.1	383
110	Torrefaction and low temperature carbonization of oil palm fiber and eucalyptus in nitrogen and air atmospheres. <i>Bioresource Technology</i> , 2012, 123, 98-105.	4.8	190
111	Thermal decomposition of bio-oil: Focus on the products yields under different pyrolysis conditions. <i>Fuel</i> , 2012, 102, 274-281.	3.4	42
112	An overview of hydrogen gas production from solar energy. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6782-6792.	8.2	179
113	Chemical characterization and water content determination of bio-oils obtained from various biomass species using <sup>31</sup> P NMR spectroscopy. <i>Biofuels</i> , 2012, 3, 123-128.	1.4	23
114	Bio-Renewable Asphalt Modifiers and Asphalt Substitutes. <i>Green Energy and Technology</i> , 2012, , 89-115.	0.4	40

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115	Biofuels Production through Biomass Pyrolysis – A Technological Review. <i>Energies</i> , 2012, 5, 4952-5001.	1.6	998
116	THE INFLUENCE OF UREA FORMALDEHYDE RESINS ON PYROLYSIS CHARACTERISTICS AND PRODUCTS OF WOOD-BASED PANELS. <i>BioResources</i> , 2012, 7, .	0.5	32
117	Optimizing Catalytic Fast Pyrolysis of Biomass for Hydrocarbon Yield. <i>Transactions of the ASABE</i> , 2012, 55, 1879-1885.	1.1	7
118	Biomass to Fuels: Thermo-chemical or Bio-chemical Conversion?. <i>Fermentation Technology</i> , 2012, 01, .	0.1	5
119	MIXING PATTERNS AND RESIDENCE TIME DETERMINATION IN A BUBBLING FLUIDIZED BED SYSTEM. <i>American Journal of Engineering and Applied Sciences</i> , 2012, 5, 170-183.	0.3	9
120	Liquefaction of Macroalgae <i>Enteromorpha prolifera</i> in Sub-/Supercritical Alcohols: Direct Production of Ester Compounds. <i>Energy &amp; Fuels</i> , 2012, 26, 2342-2351.	2.5	108
121	Process synthesis and optimization of biorefinery configurations. <i>AIChE Journal</i> , 2012, 58, 1212-1221.	1.8	123
123	Effects of Cerium and Aluminum in Cerium-Containing Hierarchical HZSM-5 Catalysts for Biomass Upgrading. <i>Topics in Catalysis</i> , 2012, 55, 196-208.	1.3	42
124	Low-cost small scale processing technologies for production applications in various environments – Mass produced factories. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 51, 32-52.	1.8	76
125	An overview of the organic and inorganic phase composition of biomass. <i>Fuel</i> , 2012, 94, 1-33.	3.4	740
126	Thermolysis of polanga seed cake to bio-oil using semi batch reactor. <i>Fuel</i> , 2012, 97, 450-456.	3.4	45
127	Effect of pyrolysis temperature on the yield and properties of bio-oils obtained from the auger pyrolysis of Douglas Fir wood. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 93, 52-62.	2.6	94
128	Production of bio-oil via fast pyrolysis of agricultural residues from cassava plantations in a fluidised-bed reactor with a hot vapour filtration unit. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 95, 227-235.	2.6	110
129	Bio-oil production from pyrolysis of corncob ( <i>Zea mays</i> L.). <i>Biomass and Bioenergy</i> , 2012, 36, 43-49.	2.9	118
130	Fractions composition study of the pyrolysis oil obtained from sewage sludge treatment plant. <i>Bioresource Technology</i> , 2012, 103, 459-465.	4.8	24
131	Gasification of biomass in a fixed bed downdraft gasifier – A realistic model including tar. <i>Bioresource Technology</i> , 2012, 107, 505-511.	4.8	157
132	Catalytic upgrading of syngas from fluidized bed air gasification of sawdust. <i>Bioresource Technology</i> , 2012, 110, 670-675.	4.8	34
133	Synthesis and properties of polyurethane foams prepared from heavy oil modified by polyols with 4,4'-methylene-diphenylene isocyanate (MDI). <i>Bioresource Technology</i> , 2012, 114, 654-657.	4.8	25



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134	Effects of cellulose, hemicellulose and lignin on thermochemical conversion characteristics of the selected biomass. <i>Bioresource Technology</i> , 2012, 114, 663-669.	4.8	263
135	A review of bio-oils from waste biomass: Focus on fish processing waste. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 798-821.	8.2	137
136	Sewage sludge-to-energy approaches based on anaerobic digestion and pyrolysis: Brief overview and energy efficiency assessment. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1657-1665.	8.2	351
137	Thermo chemical conversion of biomass – Eco friendly energy routes. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1801-1816.	8.2	217
138	A review on utilisation of biomass from rice industry as a source of renewable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3084-3094.	8.2	480
139	Techno-economic analysis of biobased chemicals production via integrated catalytic processing. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 73-87.	1.9	89
140	Production of Renewable Aromatic Compounds by Catalytic Fast Pyrolysis of Lignocellulosic Biomass with Bifunctional Ga/ZSM-5 Catalysts. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1387-1390.	7.2	338
141	A review of thermochemical conversion of microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 11-19.	8.2	162
142	Pyrolysis liquids and gases as alternative fuels in internal combustion engines – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 21, 165-189.	8.2	216
143	An Introduction to Pyrolysis and Catalytic Pyrolysis: Versatile Techniques for Biomass Conversion. , 2013, , 173-208.		52
144	Catalytic Processes for the Production of Clean Fuels. , 2013, , 87-126.		5
145	Comparison of combustion and pyrolysis for energy generation in a sugarcane mill. <i>Energy Conversion and Management</i> , 2013, 74, 524-534.	4.4	29
146	Optimization of Pathways for Biorefineries Involving the Selection of Feedstocks, Products, and Processing Steps. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 5177-5190.	1.8	52
147	Utilization of hazelnut husk as biomass. <i>Sustainable Energy Technologies and Assessments</i> , 2013, 4, 72-77.	1.7	28
148	A novel green process on the purification of crude Jatropha oil with large permeate flux enhancement. <i>Fuel</i> , 2013, 111, 180-185.	3.4	5
149	Catalytic pyrolysis of rice husk for bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 103, 362-368.	2.6	221
150	Landfills as a biorefinery to produce biomass and capture biogas. <i>Bioresource Technology</i> , 2013, 135, 578-587.	4.8	55
151	Thermochemical processes for biofuels production from biomass. <i>Sustainable Chemical Processes</i> , 2013, 1, .	2.3	77

#	ARTICLE	IF	CITATIONS
152	Ketonization of Carboxylic Acids: Mechanisms, Catalysts, and Implications for Biomass Conversion. ACS Catalysis, 2013, 3, 2456-2473.	5.5	359
153	Algae biomass as an alternative substrate in biogas production technologies—Review. Renewable and Sustainable Energy Reviews, 2013, 27, 596-604.	8.2	188
154	Effects of Environmental Factors and Nutrient Availability on the Biochemical Composition of Algae for Biofuels Production: A Review. Energies, 2013, 6, 4607-4638.	1.6	574
155	Addressing the challenges for sustainable production of algal biofuels: II. Harvesting and conversion to biofuels. Environmental Technology (United Kingdom), 2013, 34, 1807-1836.	1.2	89
156	Application of Molecular Sieves in Transformations of Biomass and Biomass-Derived Feedstocks. Catalysis Reviews - Science and Engineering, 2013, 55, 1-78.	5.7	142
157	Optimization of Hydrothermal Pretreatment of Lignocellulosic Biomass in the Bioethanol Production Process. ChemSusChem, 2013, 6, 110-122.	3.6	264
158	Feasibility study of a spouted bed gasification plant. Chemical Engineering Research and Design, 2013, 91, 843-855.	2.7	26
159	The potential of using biomass-based reducing agents in the blast furnace: A review of thermochemical conversion technologies and assessments related to sustainability. Renewable and Sustainable Energy Reviews, 2013, 25, 511-528.	8.2	152
160	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
161	Analysis of fractions and bio-oil of sugar cane straw by one-dimensional and two-dimensional gas chromatography with quadrupole mass spectrometry (GC—GC/qMS). Microchemical Journal, 2013, 110, 113-119.	2.3	47
162	Development of bioenergy technologies in Uganda: A review of progress. Renewable and Sustainable Energy Reviews, 2013, 18, 55-63.	8.2	77
163	Bio-oil production through pyrolysis of blue-green algae blooms (BGAB): Product distribution and bio-oil characterization. Energy, 2013, 52, 119-125.	4.5	159
164	Carbon sequestration and the role of biological carbon mitigation: A review. Renewable and Sustainable Energy Reviews, 2013, 21, 712-727.	8.2	184
165	Potential routes for thermochemical biorefineries. Biofuels, Bioproducts and Biorefining, 2013, 7, 551-572.	1.9	32
166	Biofuels from Microalgae: Towards Meeting Advanced Fuel Standards. , 2013, , 553-599.		13
167	Catalytic Hydrotreatment of Bio-Oils for High-Quality Fuel Production. , 2013, , 351-396.		7
168	Bio-oil from Sawdust: Design, Operation, and Performance of a Bench-Scale Fluidized-Bed Pyrolysis Plant. Energy & Fuels, 2013, 27, 3332-3340.	2.5	15
169	Catalytic pyrolysis of natural algae from water blooms over nickel phosphide for high quality bio-oil production. RSC Advances, 2013, 3, 10806.	1.7	41

#	ARTICLE	IF	CITATIONS
170	An overview of the behaviour of biomass during combustion: Part I. Phase-mineral transformations of organic and inorganic matter. <i>Fuel</i> , 2013, 112, 391-449.	3.4	365
171	Effect of sulfuric acid concentration on the yield and properties of the bio-oils obtained from the auger and fast pyrolysis of Douglas Fir. <i>Fuel</i> , 2013, 104, 536-546.	3.4	76
172	Catalytic pyrolysis of rice husk by mixing with zinc oxide: Characterization of bio-oil and its rheological behavior. <i>Fuel Processing Technology</i> , 2013, 106, 385-391.	3.7	113
173	Kinetic Analysis of Lignin Hydrothermal Conversion in Sub- and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 5626-5639.	1.8	111
174	Experimental study on bio-oil production from pyrolysis of biomass micron fuel (BMF) in a free-fall reactor. <i>Fuel</i> , 2013, 106, 552-557.	3.4	8
175	Fossil fuel energy scenario in Malaysia-prospect of indigenous renewable biomass and coal resources. , 2013, , .		9
176	Conversion of Woody Biomass Materials by Chemical Looping Process—Kinetics, Light Tar Cracking, and Moving Bed Reactor Behavior. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14116-14124.	1.8	20
177	Biomass for thermochemical conversion: targets and challenges. <i>Frontiers in Plant Science</i> , 2013, 4, 218.	1.7	183
178	Yield and Characteristics of Pyrolysis Products Obtained from <i>Schizochytrium limacinum</i> under Different Temperature Regimes. <i>Energies</i> , 2013, 6, 3339-3352.	1.6	37
179	Copper(II)-mediated thermolysis of alginates: a model kinetic study on the influence of metal ions in the thermochemical processing of macroalgae. <i>Interface Focus</i> , 2013, 3, 20120046.	1.5	41
180	Effects of Temperature on the Growth and Product Accumulation of <i>Chlorella</i> sp. <i>Advanced Materials Research</i> , 2013, 712-715, 428-432.	0.3	3
181	Selective Pyrolysis Behaviors of Willow Catalyzed via Phosphoric Acid. <i>Advanced Materials Research</i> , 0, 724-725, 413-418.	0.3	2
182	Carbonization of biomass – an efficient tool to decrease the emission of CO <sub>2</sub> . <i>Archives of Thermodynamics</i> , 2013, 34, 185-195.	1.0	3
183	Microalgae fermentation of acetic acid-rich pyrolytic bio-oil: Reducing bio-oil toxicity by alkali treatment. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 955-961.	1.3	21
184	Distributed biochar and bioenergy coproduction: a regionally specific case study of environmental benefits and economic impacts. <i>GCB Bioenergy</i> , 2013, 5, 177-191.	2.5	101
185	Technical review on biomass conversion processes into required energy form. , 2013, , .		5
187	Towards More Sustainable Ironmaking—An Analysis of Energy Wood Availability in Finland and the Economics of Charcoal Production. <i>Sustainability</i> , 2013, 5, 1188-1207.	1.6	51
188	Catalytic upgrading of Douglas fir sawdust pellet vapors over Zn/ZSM-5 catalysts in a packed-bed catalysis reactor. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
189	Life cycle assessment (LCA) and techno economic analysis (TEA) of algal biomass and biodiesel production from pyrolytic substrate. , 2014, , .		0
191	Production, Upgrading and Analysis of Bio-oils Derived from Lignocellulosic Biomass. , 2014, , 1-26.		2
192	Bio-Oil Derived from Palm Kernel Shell in Fluidized Bed Reactor: Effect of Particle Size. Advanced Materials Research, 0, 917, 63-71.	0.3	1
193	Effect of Torrefaction on the Properties of Corn Stalk to Enhance Solid Fuel Qualities. Energies, 2014, 7, 5586-5600.	1.6	48
194	Evaluation of the Oxidation of Rice Husks with Sodium Hypochlorite Using Gas Chromatography-Mass Spectrometry and Direct Analysis in Real Time-Mass Spectrometry. Analytical Letters, 2014, 47, 77-90.	1.0	13
195	Characterization and Utilization of Char Derived from Fast Pyrolysis of Plastic Wastes. Advanced Materials Research, 2014, 931-932, 849-853.	0.3	3
196	Fast Pyrolysis of Soy Hulls in a Fluidized Bed Reactor: Main Components of the Bio-Oil. Materials Science Forum, 0, 802, 239-244.	0.3	0
197	Microalgal Biomass as a Source of Renewable Energy. , 2014, , 119-143.		1
198	Advanced upgrading of extracted water phase bio-oil via esterification by ZSM-5 catalysis. , 2014, , .		0
199	Pyrolysis of biomass and refuse-derived fuel performance in laboratory scale batch reactor. Archives of Thermodynamics, 2014, 35, 141-152.	1.0	9
200	Valorization of raspberry seed cake by flash and slow pyrolysis: Product yield and characterization of the liquid and solid fraction. Journal of Analytical and Applied Pyrolysis, 2014, 107, 289-297.	2.6	29
201	Catalytic upgrading of pyrolytic vapors from the vacuum pyrolysis of rape straw over nanocrystalline HZSM-5 zeolite in a two-stage fixed-bed reactor. Journal of Analytical and Applied Pyrolysis, 2014, 108, 185-195.	2.6	56
202	Kinetics and Mechanism of Ketonization of Acetic Acid on Ru/TiO <sub>2</sub> Catalyst. Topics in Catalysis, 2014, 57, 706-714.	1.3	68
203	Pyrolysis of apricot kernel shell in a fixed-bed reactor: Characterization of bio-oil and char. Journal of Analytical and Applied Pyrolysis, 2014, 107, 17-24.	2.6	84
204	Characterization and Utilization of Char Derived from Fast Pyrolysis of Plastic Wastes. Procedia Engineering, 2014, 69, 1437-1442.	1.2	106
205	Direct hydro-liquefaction of sawdust in petroleum ether and comprehensive bio-oil products analysis. Bioresource Technology, 2014, 155, 152-160.	4.8	19
206	Catalytic production of isosorbide from cellulose over mesoporous niobium phosphate-based heterogeneous catalysts via a sequential process. Applied Catalysis A: General, 2014, 469, 108-115.	2.2	57
207	Use of bioethanol byproduct for supplementary cementitious material production. Construction and Building Materials, 2014, 51, 89-96.	3.2	21

#	ARTICLE	IF	CITATIONS
208	Pyrolysis of waste animal fats in a fixed-bed reactor: Production and characterization of bio-oil and bio-char. <i>Waste Management</i> , 2014, 34, 210-218.	3.7	151
209	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.	2.6	179
210	Catalytic Thermochemical Processes for Biomass Conversion to Biofuels and Chemicals. , 2014, , 243-254.		5
211	Pilot-scale validation of Co-ZSM-5 catalyst performance in the catalytic upgrading of biomass pyrolysis vapours. <i>Green Chemistry</i> , 2014, 16, 662-674.	4.6	174
212	Metal nickel nanoparticles in situ generated in rice husk char for catalytic reformation of tar and syngas from biomass pyrolytic gasification. <i>RSC Advances</i> , 2014, 4, 40651-40664.	1.7	48
213	Production of renewable jet fuel range alkanes and commodity chemicals from integrated catalytic processing of biomass. <i>Energy and Environmental Science</i> , 2014, 7, 1500-1523.	15.6	342
214	A review of hydrothermal biomass processing. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 673-687.	8.2	509
215	Evaluating the potential for producing energy from agricultural residues in MÃ©xico using MILP optimization. <i>Biomass and Bioenergy</i> , 2014, 67, 372-389.	2.9	41
216	A mechanistic study on the reaction pathways leading to benzene and naphthalene in cellulose vapor phase cracking. <i>Biomass and Bioenergy</i> , 2014, 69, 144-154.	2.9	37
217	Liquidâ€“Liquid Extraction of Biomass Pyrolysis Bio-oil. <i>Energy &amp; Fuels</i> , 2014, 28, 1207-1212.	2.5	84
218	Co-pyrolysis of pine nut shells with scrap tires. <i>Fuel</i> , 2014, 137, 85-93.	3.4	102
219	Production, properties and catalytic hydrogenation of furfural to fuel additives and value-added chemicals. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 663-676.	8.2	584
220	Catalytic Fast Pyrolysis of Pine Wood: Effect of Successive Catalyst Regeneration. <i>Energy &amp; Fuels</i> , 2014, 28, 4560-4572.	2.5	60
221	Application of bio-oils from lignocellulosic biomass to transportation, heat and power generationâ€“A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 1108-1125.	8.2	119
222	A review on pyrolysis of biomass constituents: Mechanisms and composition of the products obtained from the conversion of cellulose, hemicelluloses and lignin. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 594-608.	8.2	1,274
223	Chemical-looping gasification of biomass in a 10 kWth interconnected fluidized bed reactor using Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> oxygen carrier. <i>Journal of Fuel Chemistry and Technology</i> , 2014, 42, 922-931.	0.9	65
224	Microalgal Feedstock for Bioenergy: Opportunities and Challenges. , 2014, , 367-392.		4
225	Aromatic hydrocarbons production from ex situ catalysis of pyrolysis vapor over Zinc modified ZSM-5 in a packed-bed catalysis coupled with microwave pyrolysis reactor. <i>Fuel</i> , 2014, 129, 78-85.	3.4	93

#	ARTICLE	IF	CITATIONS
226	Catalytic processes and catalyst development in biorefining. , 2014, , 152-198.		18
227	Py-GC/MS studies and principal component analysis to evaluate the impact of feedstock and temperature on the distribution of products during fast pyrolysis. Journal of Analytical and Applied Pyrolysis, 2014, 109, 140-151.	2.6	59
228	Mechanical performance of asphalt mixtures modified by bio-oils derived from waste wood resources. Construction and Building Materials, 2014, 51, 424-431.	3.2	176
229	Characteristics of tar formation during cellulose, hemicellulose and lignin gasification. Fuel, 2014, 118, 250-256.	3.4	160
230	Analysis of Palm Biomass as Electricity from Palm Oil Mills in North Sumatera. Energy Procedia, 2014, 47, 166-172.	1.8	41
231	Role of TiF3 catalyst in the tribological properties of biofuel soot-contaminated liquid paraffin. Tribology International, 2014, 77, 122-131.	3.0	8
232	A study of thermal pyrolysis for castor meal using the Taguchi method. Energy, 2014, 71, 62-70.	4.5	32
234	Hydrothermal Liquefaction of Biomass. , 2014, , 397-414.		0
235	Combined Heat and Power Generation from Biomass. , 2014, , 431-460.		0
236	Supercritical water gasification of ethanol fermentation residue of seaweed: effect of sodium chloride salt. International Journal of Nano and Biomaterials, 2014, 5, 3.	0.1	0
237	Characterization of South Asian Agricultural Residues for Potential Utilization in Future "energy mix". Energy Procedia, 2015, 75, 2974-2980.	1.8	90
238	Removal of introduced inorganic content from chipped forest residues via air classification. Fuel, 2015, 160, 265-273.	3.4	39
239	Biomass to fuel gas conversion through a low pyrolysis temperature induced by gamma radiation: an experimental and simulative study. RSC Advances, 2015, 5, 77897-77905.	1.7	21
241	Thermogravimetric characterization and gasification of pecan nut shells. Bioresource Technology, 2015, 198, 634-641.	4.8	17
242	Isolation of Renewable Phenolics by Adsorption on Ultrastable Hydrophobic MIL-140 Metal-Organic Frameworks. ChemSusChem, 2015, 8, 3159-3166.	3.6	36
243	Oxygen-Containing Fuels from High Acid Water Phase Pyrolysis Bio-Oils by ZSM-5 Catalysis: Kinetic and Mechanism Studies. Energies, 2015, 8, 5898-5915.	1.6	8
245	Effect of ionic liquid on thermo-physical properties of bamboo biomass. Wood Science and Technology, 2015, 49, 897-913.	1.4	26
246	Recent progress in the direct liquefaction of typical biomass. Progress in Energy and Combustion Science, 2015, 49, 59-80.	15.8	249

#	ARTICLE	IF	CITATIONS
247	Reaction pathways in the liquid phase alkylation of biomass-derived phenolic compounds. <i>AIChE Journal</i> , 2015, 61, 598-609.	1.8	31
248	Biogas from Lignocellulosic Materials. <i>Biofuel and Biorefinery Technologies</i> , 2015, , 207-251.	0.1	16
249	Advantages and disadvantages of composition and properties of biomass in comparison with coal: An overview. <i>Fuel</i> , 2015, 158, 330-350.	3.4	487
250	Versatile and efficient catalysts for energy and environmental processes: Mesoporous silica containing Au, Pd and Au-Pd. <i>Journal of Power Sources</i> , 2015, 285, 460-468.	4.0	43
251	Thermochemical conversion of microalgal biomass for biofuel production. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 49, 990-999.	8.2	259
252	Microwave-Assisted Thermochemical Conversion of Biomass for Biofuel Production. <i>Biofuels and Biorefineries</i> , 2015, , 83-98.	0.5	13
253	Experimental Study of CaO Facilitated Cellulose Pyrolysis in a Drop Tube Pyrolyzer. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015, 37, 2662-2670.	1.2	10
254	Characterization of Pyrolysis Products Obtained from <i>Desmodium</i> sp. Cultivated in Anaerobic Digested Effluents (DADE). <i>International Journal of Food Engineering</i> , 2015, 11, 825-832.	0.7	5
255	Algae and Environmental Sustainability. , 2015, , .		20
256	Life Cycle Assessment of Algal Biofuels. , 2015, , 165-181.		4
257	Structure and thermal properties of phosphorus-containing polyol synthesized from cardanol. <i>RSC Advances</i> , 2015, 5, 106651-106660.	1.7	25
258	Steam gasification of acid-hydrolysis biomass CAHR for clean syngas production. <i>Bioresource Technology</i> , 2015, 179, 323-330.	4.8	30
259	Mixing and operability characteristics of mechanically fluidized reactors for the pyrolysis of biomass. <i>Powder Technology</i> , 2015, 274, 205-212.	2.1	17
260	In-situ reforming of the volatiles from fast pyrolysis of ligno-cellulosic biomass over zeolite catalysts for aromatic compound production. <i>Fuel Processing Technology</i> , 2015, 136, 73-78.	3.7	25
261	Phosphorus Recovery and Reuse from Waste Streams. <i>Advances in Agronomy</i> , 2015, 131, 173-250.	2.4	89
262	Selective catalytic conversion of bio-oil over high-silica zeolites. <i>Bioresource Technology</i> , 2015, 179, 518-523.	4.8	37
263	A comparative review of biochar and hydrochar in terms of production, physico-chemical properties and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 45, 359-378.	8.2	1,127
264	Algal biofuels in Canada: Status and potential. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 620-642.	8.2	48



#	ARTICLE	IF	CITATIONS
265	Cooperative transformation of nitroarenes and biomass-based alcohols catalyzed by CuNiAlO <sub>x</sub> . RSC Advances, 2015, 5, 7970-7975.	1.7	14
266	Fast pyrolysis of low and high ash paper waste sludge: Influence of reactor temperature and pellet size. Journal of Analytical and Applied Pyrolysis, 2015, 111, 64-75.	2.6	54
267	Novel approaches of producing bioenergies from microalgae: A recent review. Biotechnology Advances, 2015, 33, 1219-1227.	6.0	92
268	Intermediate pyrolysis of agro-industrial biomasses in bench-scale pyrolyser: Product yields and its characterization. Bioresource Technology, 2015, 188, 258-264.	4.8	79
269	Catalytic hydrothermal upgrading of crude bio-oils produced from different thermo-chemical conversion routes of microalgae. Bioresource Technology, 2015, 186, 58-66.	4.8	50
270	Pyrolysis of oil-plant wastes in a TGA and a fixed-bed reactor: Thermochemical behaviors, kinetics, and products characterization. Bioresource Technology, 2015, 192, 592-602.	4.8	57
271	Bio-Oil Production from Fast Pyrolysis of Cotton Stalk in Fluidized Bed Reactor. Arabian Journal for Science and Engineering, 2015, 40, 3019-3027.	1.1	20
272	Biorenewable chemicals: Feedstocks, technologies and the conflict with food production. Renewable and Sustainable Energy Reviews, 2015, 51, 506-520.	8.2	89
273	Improved Hydrogen Production from Galactose Via Immobilized Mixed Consortia. Arabian Journal for Science and Engineering, 2015, 40, 2117-2122.	1.1	17
274	Hydrolysis of cellulose in supercritical water: reagent concentration as a selectivity factor. Cellulose, 2015, 22, 2231-2243.	2.4	38
275	Simulation of biofuel production via fast pyrolysis of palm oil residues. Fuel, 2015, 159, 819-827.	3.4	41
276	Convergent reductive depolymerization of wood lignin to isolated phenol derivatives by metal-free catalytic hydrosilylation. Energy and Environmental Science, 2015, 8, 2734-2743.	15.6	146
277	Production of Bio-oil from Pine Sawdust by Rapid Pyrolysis in a Fluidized-bed Reactor. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 1440-1446.	1.2	14
278	Low-Temperature Dilute Acid Hydrolysis of Oil Palm Frond. Chemical Engineering Communications, 2015, 202, 1235-1244.	1.5	10
279	Analysis of impact of temperature and saltwater on Nannochloropsis salina bio-oil production by ultra high resolution APCI FT-ICR MS. Algal Research, 2015, 9, 227-235.	2.4	23
280	A study on torrefaction of sewage sludge to enhance solid fuel qualities. Waste Management, 2015, 40, 112-118.	3.7	72
281	Fast pyrolysis of soybean hulls: analysis of bio-oil produced in a fluidized bed reactor and of vapor obtained in analytical pyrolysis. Journal of Thermal Analysis and Calorimetry, 2015, 120, 427-438.	2.0	31
282	Exploitation of algal-bacterial associations in a two-stage biohydrogen and biogas generation process. Biotechnology for Biofuels, 2015, 8, 59.	6.2	75



#	ARTICLE	IF	CITATIONS
283	Propanol formation from CO <sub>2</sub> and C <sub>2</sub> H <sub>4</sub> with H <sub>2</sub> over Au/TiO <sub>2</sub> : Effect of support and K doping. <i>Catalysis Today</i> , 2015, 258, 684-690.	2.2	12
285	An overview on alternative binders for flexible pavement. <i>Construction and Building Materials</i> , 2015, 84, 315-319.	3.2	108
286	Investigation of cellulose supramolecular structure changes during conversion of waste paper in near-critical water on producing 5-hydroxymethyl furfural. <i>Renewable Energy</i> , 2015, 80, 132-139.	4.3	25
287	Performance of a household boiler fed with agropellets blended from olive mill solid waste and pine sawdust. <i>Fuel</i> , 2015, 153, 431-436.	3.4	31
288	Bio-oil from thermo-chemical hydro-liquefaction of wet sewage sludge. <i>Bioresource Technology</i> , 2015, 187, 23-29.	4.8	101
289	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. <i>Chemical Reviews</i> , 2015, 115, 11559-11624.	23.0	2,200
290	CFD simulations of catalytic hydrodeoxygenation of bio-oil using Pt/Al <sub>2</sub> O <sub>3</sub> in a fixed bed reactor. <i>RSC Advances</i> , 2015, 5, 90354-90366.	1.7	19
291	Quality optimization in briquettes made from rice milling by-products. <i>Energy for Sustainable Development</i> , 2015, 29, 24-31.	2.0	58
292	Exploring the Products from Pinewood Pyrolysis in Three Different Reactor Systems. <i>Energy &amp; Fuels</i> , 2015, 29, 5857-5864.	2.5	17
293	Adhesive characteristics and bonding performance of phenol formaldehyde modified with phenol-rich fraction of crude bio-oil. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 2679-2691.	1.4	26
294	A review on the pyrolysis of woody biomass to bio-oil: Focus on kinetic models. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1580-1595.	8.2	191
295	Nanoflake driven Mn <sub>2</sub> O <sub>3</sub> microcubes modified with cooked rice derived carbon for improved electrochemical behavior. <i>RSC Advances</i> , 2015, 5, 4568-4577.	1.7	30
296	Effect of taxonomic diversification of microalgae harvested from eutrophicated reservoirs on the chemical composition of biomass and effectiveness of methane fermentation. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 858-865.	1.3	5
297	Fast pyrolysis of torrefied sewage sludge in a fluidized bed reactor. <i>Chemical Engineering Journal</i> , 2015, 259, 467-480.	6.6	41
298	Kinetics of pyrolysis of ramie fabric wastes from thermogravimetric data. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 651-657.	2.0	49
299	Hydrogen generation from biomass materials: challenges and opportunities. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2015, 4, 139-155.	1.9	29
300	Low-temperature microwave-assisted pyrolysis of waste office paper and the application of bio-oil as an Al adhesive. <i>Green Chemistry</i> , 2015, 17, 260-270.	4.6	65
301	A study on torrefaction of food waste. <i>Fuel</i> , 2015, 140, 275-281.	3.4	108

#	ARTICLE	IF	CITATIONS
302	Opportunities, recent trends and challenges of integrated biorefinery: Part II. Renewable and Sustainable Energy Reviews, 2015, 43, 1446-1466.	8.2	134
303	The global transcriptional response of a raw starch-degrading amylolytic <i>Saccharomyces cerevisiae</i> strain to oxygen limitation and genetic modification. Turkish Journal of Biology, 2016, 40, 684-693.	2.1	1
304	Phosphorus Recovery From Wastes#. , 2016, , 687-705.		7
305	Co-Firing of Fast Pyrolysis Bio-Oil and Heavy Fuel Oil in a 300-kWth Furnace. Applied Sciences (Switzerland), 2016, 6, 326.	1.3	24
306	Application, Deactivation, and Regeneration of Heterogeneous Catalysts in Bio-Oil Upgrading. Catalysts, 2016, 6, 195.	1.6	114
307	The Concept, Design and Performance of a Novel Rotary Kiln Type Air-Staged Biomass Gasifier. Energies, 2016, 9, 67.	1.6	25
308	Municipal Solid Waste Biochar for Prevention of Pollution From Landfill Leachate. , 2016, , 117-148.		23
309	Biomass Energy from Revegetation of Landfill Sites. , 2016, , 99-109.		8
310	Corn cob to value-added chemical transformation by metal/beta zeolite and metal/mesoporous SBA-15 catalytic pyrolysis. Journal of Chemical Technology and Biotechnology, 2016, 91, 2519-2528.	1.6	8
311	Characterization and pyrolysis behaviors of sunflower stalk and its hydrolysis residue. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 803-811.	0.8	4
312	Kinetic Study on Pyrolysis of Oil Palm Frond. IOP Conference Series: Materials Science and Engineering, 2016, 121, 012004.	0.3	4
313	Regulation for Optimal Liquid Products during Biomass Pyrolysis: A Review. IOP Conference Series: Earth and Environmental Science, 2016, 40, 012047.	0.2	4
314	Temperature-Oriented Pyrolysis on the Decomposition Characteristics of <i>Chlorella pyrenoidosa</i> . International Journal of Food Engineering, 2016, 12, 295-301.	0.7	4
315	Natural magnesium oxide (MgO) catalysts: A cost-effective sustainable alternative to acid zeolites for the in situ upgrading of biomass fast pyrolysis oil. Applied Catalysis B: Environmental, 2016, 196, 155-173.	10.8	196
316	Deoxygenation of m-toluic acid over hierarchical x zeolite. Catalysis Communications, 2016, 78, 55-58.	1.6	6
317	A critical analysis on palm kernel shell from oil palm industry as a feedstock for solid char production. Reviews in Chemical Engineering, 2016, 32, 489-505.	2.3	55
318	Pyrolysis of babool seeds ( <i>Acacia nilotica</i> ) in a fixed bed reactor and bio-oil characterization. Renewable Energy, 2016, 96, 167-171.	4.3	103
319	Thermal degradation kinetics of sawdust under intermediate heating rates. Applied Thermal Engineering, 2016, 103, 170-176.	3.0	33

#	ARTICLE	IF	CITATIONS
320	Adsorption of cesium on different types of activated carbon. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 301-310.	0.7	20
321	Hydrocarbon produced from upgrading rich phenolic compound bio-oil with low catalyst coking. Fuel, 2016, 178, 77-84.	3.4	51
322	Catalytic fast pyrolysis for improved liquid quality. , 2016, , 391-429.		7
323	Conversion of waste bamboo chopsticks to bio-oil via catalytic hydrothermal liquefaction using K <sub>2</sub> CO <sub>3</sub> . Sustainable Environment Research, 2016, 26, 262-267.	2.1	25
325	A review of fuel cell systems for maritime applications. Journal of Power Sources, 2016, 327, 345-364.	4.0	395
326	Lipid production of microalga <i>Chlorella sorokiniana</i> CY1 is improved by light source arrangement, bioreactor operation mode and deep-sea water supplements. Biotechnology Journal, 2016, 11, 356-362.	1.8	15
327	Essential scientific mapping of the value chain of thermochemically converted second-generation bio-fuels. Green Chemistry, 2016, 18, 5086-5117.	4.6	51
328	Detailed Kinetic Modeling of Lignin Pyrolysis for Process Optimization. Industrial & Engineering Chemistry Research, 2016, 55, 9147-9153.	1.8	40
329	Castor bean cake residues upgrading towards high added value products via fast catalytic pyrolysis. Biomass and Bioenergy, 2016, 95, 405-415.	2.9	18
330	Catalytic transformation of lignin to aromatic hydrocarbons over solid-acid catalyst: Effect of lignin sources and catalyst species. Energy Conversion and Management, 2016, 124, 61-72.	4.4	80
331	Integrating Electrocatalytic 5-Hydroxymethylfurfural Oxidation and Hydrogen Production via Co-P-Derived Electrocatalysts. ACS Energy Letters, 2016, 1, 386-390.	8.8	272
332	Effect of operating parameters on production of bio-oil from fast pyrolysis of maize stalk in bubbling fluidized bed reactor. Polish Journal of Chemical Technology, 2016, 18, 88-96.	0.3	28
333	Spontaneous Aerosol Ejection: Origin of Inorganic Particles in Biomass Pyrolysis. ChemSusChem, 2016, 9, 1322-1328.	3.6	22
334	Selective ketonization of acetic acid over HZSM-5: The importance of acyl species and the influence of water. Journal of Catalysis, 2016, 340, 76-84.	3.1	70
335	Agricultural residue gasification for low-cost, low-carbon decentralized power: An empirical case study in Cambodia. Applied Energy, 2016, 177, 612-624.	5.1	15
336	Role of Hydrogen Transfer during Catalytic Copyrolysis of Lignin and Tetralin over HZSM-5 and HY Zeolite Catalysts. ACS Sustainable Chemistry and Engineering, 2016, 4, 4237-4250.	3.2	61
337	The effect of sodium chloride on the pyrolysis of rice husk. Applied Energy, 2016, 178, 346-352.	5.1	73
338	Influence of ammonium dihydrogen phosphate on potassium retention and ash melting characteristics during combustion of biomass. Energy, 2016, 102, 244-251.	4.5	31

#	ARTICLE	IF	CITATIONS
339	The role of sustainable biomass in the heat market sector for <sc>EU27</sc>. Wiley Interdisciplinary Reviews: Energy and Environment, 2016, 5, 430-450.	1.9	3
340	Biomass to liquid transportation fuel via Fischer Tropsch synthesis – Technology review and current scenario. Renewable and Sustainable Energy Reviews, 2016, 58, 267-286.	8.2	313
341	A review of whole cell wall NMR by the direct-dissolution of biomass. Green Chemistry, 2016, 18, 608-621.	4.6	50
342	Microalgae biofuels as an alternative to fossil fuel for power generation. Renewable and Sustainable Energy Reviews, 2016, 58, 180-197.	8.2	454
343	Macroalgae and microalgae as a potential source for commercial applications along with biofuels production: A biorefinery approach. Renewable and Sustainable Energy Reviews, 2016, 55, 909-941.	8.2	565
344	Pyrolysis of Jatropha Curcas seed cake followed by optimization of liquid-liquid extraction procedure for the obtained bio-oil. Journal of Analytical and Applied Pyrolysis, 2016, 118, 202-224.	2.6	51
345	Char fuel production in developing countries – A review of urban biowaste carbonization. Renewable and Sustainable Energy Reviews, 2016, 59, 1514-1530.	8.2	99
346	A review on the upgradation techniques of pyrolysis oil. Renewable and Sustainable Energy Reviews, 2016, 58, 1543-1568.	8.2	297
347	Characterization of bio-oils obtained from pyrolysis of bocaiuva residues. Renewable Energy, 2016, 91, 21-31.	4.3	28
348	Effect of process parameters on production of biochar from biomass waste through pyrolysis: A review. Renewable and Sustainable Energy Reviews, 2016, 55, 467-481.	8.2	1,031
349	Bio-oil production via catalytic supercritical liquefaction of Syrian mesquite (Prosopis farcta). Journal of Supercritical Fluids, 2016, 109, 26-34.	1.6	32
350	Nanomapping and speciation of C and Ca in thermally treated lignocellulosic cell walls using scanning transmission X-ray microscopy and K-edge XANES. Fuel, 2016, 167, 149-157.	3.4	12
351	The mixing and segregation characteristics of rice straw in a cylindrical bubbling fluidized bed. Journal of Material Cycles and Waste Management, 2016, 18, 771-780.	1.6	7
352	Pyrolysis of Agricultural Biomass using an Auger Reactor: A Parametric Optimization. International Journal of Chemical Reactor Engineering, 2017, 15, .	0.6	7
353	Microalgae biorefinery: High value products perspectives. Bioresource Technology, 2017, 229, 53-62.	4.8	947
354	Bio-oil production from fast pyrolysis of maple fruit (acer platanoides samaras): product yields. World Journal of Engineering, 2017, 14, 55-59.	1.0	5
355	Production of Bioenergy in the Framework of Circular Economy: A Sustainable Circular System in Ecuador. , 2017, , 1-31.		2
356	Microwave pyrolysis of biomass for bio-oil production: Scalable processing concepts. Chemical Engineering Journal, 2017, 316, 481-498.	6.6	155

#	ARTICLE	IF	CITATIONS
357	Energetics of cellulose and cyclodextrin glycosidic bond cleavage. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 201-214.	1.9	58
358	Thermocatalytic Reforming of Biomass Waste Streams. <i>Energy Technology</i> , 2017, 5, 104-110.	1.8	28
359	Tuning Hydrogen and Carbon Nanotube Production from Phenol Steam Reforming on Ni/Fe-Based Nanocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2098-2108.	3.2	19
360	An overview of effect of process parameters on hydrothermal carbonization of biomass. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 1289-1299.	8.2	354
361	Comparative Study of Temperature Impact on Air Gasification of Various Types of Biomass in a Research-Scale Down-draft Reactor. <i>Energy &amp; Fuels</i> , 2017, 31, 4045-4053.	2.5	31
362	Progress in biofuel production from gasification. <i>Progress in Energy and Combustion Science</i> , 2017, 61, 189-248.	15.8	483
363	Evaluation of optimized bio-asphalt containing high content waste cooking oil residues. <i>Fuel</i> , 2017, 202, 529-540.	3.4	101
364	Catalytic hydrogenolysis of kraft lignin to monomers at high yield in alkaline water. <i>Green Chemistry</i> , 2017, 19, 2636-2645.	4.6	49
365	Catalytic cracking of acetic acid and its ketene intermediate over HZSM-5 catalyst: A density functional theory study. <i>Molecular Catalysis</i> , 2017, 437, 11-17.	1.0	23
366	Two-step hydrogen transfer catalysis conversion of lignin to valuable small molecular compounds. <i>Green Processing and Synthesis</i> , 2017, 6, .	1.3	3
367	Combined NMR structural characterization and thermogravimetric analyses for the assessment of the AAEM effect during lignocellulosic biomass pyrolysis. <i>Energy</i> , 2017, 134, 10-23.	4.5	61
368	Lignocellulosic biomass pyrolysis mechanism: A state-of-the-art review. <i>Progress in Energy and Combustion Science</i> , 2017, 62, 33-86.	15.8	1,748
369	Urban biomass and methods of estimating municipal biomass resources. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 1017-1030.	8.2	58
370	Evaluation of agricultural residues pyrolysis under non-isothermal conditions: Thermal behaviors, kinetics, and thermodynamics. <i>Bioresource Technology</i> , 2017, 241, 340-348.	4.8	96
371	Biomass and bioenergy: An overview of the development potential in Turkey and Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1285-1302.	8.2	168
372	Chromatographic characterization of bio-oil generated from rapid pyrolysis of rice husk in stainless steel reactor. <i>Microchemical Journal</i> , 2017, 134, 218-223.	2.3	14
373	Integrated processes of anaerobic digestion and pyrolysis for higher bioenergy recovery from lignocellulosic biomass: A brief review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 1272-1287.	8.2	118
374	Theoretical Study on Hydrogenolytic Cleavage of Intermonomer Linkages in Lignin. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2868-2877.	1.1	10

#	ARTICLE	IF	CITATIONS
375	Liquefaction of Biomass for Bio-oil Products. , 2017, , 231-250.		3
376	Review of physicochemical properties and analytical characterization of lignocellulosic biomass. Renewable and Sustainable Energy Reviews, 2017, 76, 309-322.	8.2	448
377	Effects of organic loading rate on biogas production from macroalgae: Performance and microbial community structure. Bioresource Technology, 2017, 235, 292-300.	4.8	67
378	Predicting Effects of Operating Conditions on Biomass Fast Pyrolysis Using Particle-Level Simulation. Energy & Fuels, 2017, 31, 635-646.	2.5	12
379	Density functional theory study of acetic acid steam reforming on Ni(111). Applied Surface Science, 2017, 400, 97-109.	3.1	27
380	Assessment of orange peel waste availability in ghana and potential bio-oil yield using fast pyrolysis. Renewable and Sustainable Energy Reviews, 2017, 70, 814-821.	8.2	42
381	Valorisation of post-sorption materials: Opportunities, strategies, and challenges. Advances in Colloid and Interface Science, 2017, 242, 35-58.	7.0	85
382	Theoretical Study on the Kinetics of Thermal Decomposition of Guaiacol and Catechol. Journal of Physical Chemistry A, 2017, 121, 8495-8503.	1.1	14
383	A Comparative Study on Waste Plastics Pyrolysis Liquid Products Quantity and Energy Recovery Potential. Energy Procedia, 2017, 118, 221-226.	1.8	55
384	Understanding Low-Pressure Hydrolysis of Lignin Using Deuterated Sodium Formate. ACS Sustainable Chemistry and Engineering, 2017, 5, 8939-8950.	3.2	25
385	Biochar systems in the water-energy-food nexus: the emerging role of process systems engineering. Current Opinion in Chemical Engineering, 2017, 18, 32-37.	3.8	23
386	Influence of lignocellulose thermal pretreatment on the composition of condensable products obtained from char devolatilization by means of thermogravimetric analysisâ€“thermal desorption/gas chromatographyâ€“mass spectrometry. Journal of Analytical and Applied Pyrolysis, 2017, 127, 99-108.	2.6	8
387	Application of the SARA method for determination of hydrocarbons by GC/qMS in bio-oil obtained by fast pyrolysis of rice husk. Microchemical Journal, 2017, 135, 226-238.	2.3	4
388	Fixed bed pyrolysis of biomass solid waste for bio-oil. AIP Conference Proceedings, 2017, , .	0.3	7
389	Catalytic upgrading of carboxylic acids as bio-oil models over hierarchical ZSM-5 obtained via an organosilane approach. RSC Advances, 2017, 7, 35581-35589.	1.7	14
390	Process design and simulation of industrial scale biofuel production via pyrolysis of saccharina japonica. , 2017, , .		0
391	Study of thermal decomposition process and the reaction mechanism of the eucalyptus wood. Wood Science and Technology, 2017, 51, 1081-1094.	1.4	19
392	Microalgae from wastewater treatment to biochar â€“ Feedstock preparation and conversion technologies. Energy Conversion and Management, 2017, 150, 1-13.	4.4	144

#	ARTICLE	IF	CITATIONS
393	Catalytic fast pyrolysis of hazelnut cupula: Characterization of bio-oil. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 2216-2225.	1.2	9
394	Bio-oil Production by Thermochemical Catalytic Liquefaction of Bloom-Forming Cyanobacteria: Optimization Using Response Surface Methodology (RSM). Energy & Fuels, 2017, 31, 13733-13742.	2.5	11
395	Evolution of Chlorine-Bearing Gases During Corn Straw Torrefaction at Different Temperatures. Energy & Fuels, 2017, 31, 13713-13723.	2.5	20
397	Catalytic Upgrading of Bio-oil: Biomass Gasification in the Presence of Catalysts. Green Energy and Technology, 2017, , 155-176.	0.4	0
398	Coffee Husks Characterization for the Fast Pyrolysis Process. Materials Science Forum, 0, 899, 130-135.	0.3	6
399	Optimizing and modeling of energy production based on catalytic gasification of saxaul as a new biomass. Environmental Progress and Sustainable Energy, 2017, 36, 723-728.	1.3	1
400	Energy potential from rice husk through direct combustion and fast pyrolysis: A review. Waste Management, 2017, 59, 200-210.	3.7	172
401	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. Green Chemistry, 2017, 19, 44-67.	4.6	216
402	Experimental investigation of biomass devolatilization in steam gasification in a dual fluidised bed gasifier. Fuel, 2017, 188, 628-635.	3.4	55
403	Potential of biohydrogen production from effluents of citrus processing industry using anaerobic bacteria from sewage sludge. Waste Management, 2017, 59, 181-193.	3.7	53
404	Chemicals from biomass: technological <i>versus</i> environmental feasibility. A review. Biofuels, Bioproducts and Biorefining, 2017, 11, 195-214.	1.9	126
405	From woody biomass waste to biocoke: influence of the proportion of different tree components. European Journal of Wood and Wood Products, 2017, 75, 485-497.	1.3	12
406	Advances in Upgrading Lignin Pyrolysis Vapors by Exâ€¦Situ Catalytic Fast Pyrolysis. Energy Technology, 2017, 5, 30-51.	1.8	29
407	Comparative technoâ€œconomic analysis and process design for indirect liquefaction pathways to distillateâ€œrange fuels via biomassâ€œderived oxygenated intermediates upgrading. Biofuels, Bioproducts and Biorefining, 2017, 11, 41-66.	1.9	39
408	Biohydrogen production from Imperata cylindrica bio-oil using non-stoichiometric and thermodynamic model. International Journal of Hydrogen Energy, 2017, 42, 9011-9023.	3.8	9
409	Microalgal biodiesel: A possible solution for Indiaâ€™s energy security. Renewable and Sustainable Energy Reviews, 2017, 67, 72-88.	8.2	84
410	Synthesis of magnetic biochar from agricultural waste biomass to enhancing route for waste water and polymer application: A review. Renewable and Sustainable Energy Reviews, 2017, 67, 257-276.	8.2	292
411	Numerical Modelling of a Fast Pyrolysis Process in a Bubbling Fluidized Bed Reactor. IOP Conference Series: Earth and Environmental Science, 2017, 73, 012032.	0.2	2



#	ARTICLE	IF	CITATIONS
412	Fuel Gas Generation from Gasification of Sacha Inchi Shell using a Drop Tube Reactor. <i>Energy Procedia</i> , 2017, 138, 870-876.	1.8	0
413	Biomass Energy Technological Paradigm (BETP): Trends in This Sector. <i>Sustainability</i> , 2017, 9, 567.	1.6	34
414	Solar Pyrolysis. , 2017, , 213-235.		39
415	Co-Combustion of Fast Pyrolysis Bio-Oil Derived from Coffee Bean Residue and Diesel in an Oil-Fired Furnace. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1085.	1.3	13
416	Olive Mill Wastewater: From a Pollutant to Green Fuels, Agricultural Water Source and Bio-Fertilizer”Part 1. The Drying Kinetics. <i>Energies</i> , 2017, 10, 1423.	1.6	23
417	A Holistic Approach to Managing Microalgae for Biofuel Applications. <i>International Journal of Molecular Sciences</i> , 2017, 18, 215.	1.8	113
418	High-value compounds from microalgae with industrial exploitability ndash A review b b. <i>Frontiers in Bioscience - Scholar</i> , 2017, 9, 319-342.	0.8	51
419	Microwave pyrolysis of lignocellulosic biomass”a contribution to power Africa. <i>Energy, Sustainability and Society</i> , 2017, 7, .	1.7	36
420	Conversion of lignocellulose from palm ( <i>Elaeis guineensis</i> ) fruit fibre and physic ( <i>Jatropha curcas</i> ) nut shell into bio-oil. <i>African Journal of Biotechnology</i> , 2017, 16, 2167-2180.	0.3	7
421	Municipal Green Waste (MGW) Pyrolysis. , 2017, , 229-243.		1
422	Improved SPSO-based Parameter Identification of Solar PV Cells I-V Model. , 2017, , .		1
423	Development of an automated method for modelling of bio-crudes originating from biofuel production processes based on thermochemical conversion. <i>Applied Energy</i> , 2018, 215, 670-678.	5.1	6
424	Computational Study on the Thermal Decomposition of Phenol”Type Monolignols. <i>International Journal of Chemical Kinetics</i> , 2018, 50, 304-316.	1.0	8
425	Evaluation of biogas and syngas as energy vectors for heat and power generation using lignocellulosic biomass as raw material. <i>Electronic Journal of Biotechnology</i> , 2018, 33, 52-62.	1.2	121
426	Comparison of the thermal degradation behaviors and kinetics of palm oil waste under nitrogen and air atmosphere in TGA-FTIR with a complementary use of model-free and model-fitting approaches. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 12-24.	2.6	138
427	Green Algae Biomass Cultivation, Harvesting and Genetic Modifications for Enhanced Cellular Lipids. , 2018, , 119-140.		3
428	Investigation of a new integrated biofuel production process via fast pyrolysis, co-gasification and hydrouppgrading. <i>Energy Conversion and Management</i> , 2018, 161, 35-52.	4.4	20
430	Segmented heating carbonization of biomass: Yields, property and estimation of heating value of chars. <i>Energy</i> , 2018, 144, 301-311.	4.5	14



#	ARTICLE	IF	CITATIONS
431	Biomass ash-based mineral admixture prepared from municipal sewage sludge and its application in cement composites. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 159-171.	2.1	47
432	Recent advances in nanoporous materials for renewable energy resources conversion into fuels. <i>Surface and Coatings Technology</i> , 2018, 347, 320-336.	2.2	29
433	Catalytic co-pyrolysis of cellulose and polypropylene over all-silica mesoporous catalyst MCM-41 and Al-MCM-41. <i>Science of the Total Environment</i> , 2018, 633, 1105-1113.	3.9	93
434	Thermogravimetric characteristic and kinetic of catalytic co-pyrolysis of biomass with low- and high-density polyethylenes. <i>Biomass Conversion and Biorefinery</i> , 2018, 8, 143-150.	2.9	21
435	Recent advances in oxidative valorization of lignin. <i>Catalysis Today</i> , 2018, 302, 50-60.	2.2	155
436	Modelling and evaluating a solar pyrolysis system. <i>Renewable Energy</i> , 2018, 116, 630-638.	4.3	27
437	Thermal degradation kinetics study and thermal cracking of waste cooking oil for biofuel production. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2157-2165.	2.0	12
438	An upgraded bio-oil produced from sugarcane bagasse via the use of HZSM-5 zeolite catalyst. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 589-594.	1.2	22
439	Scenarios and prospects of solid biofuel use in Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2365-2378.	8.2	45
440	Potential of biomass for bioenergy in Pakistan based on present case and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 1247-1258.	8.2	122
441	Operating parameters for bio-oil production in biomass pyrolysis: A review. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 129, 134-149.	2.6	386
442	Hydrothermal liquefaction of microalgae over transition metal supported TiO <sub>2</sub> catalyst. <i>Bioresource Technology</i> , 2018, 250, 474-480.	4.8	100
443	Two-stage catalytic fast hydrolysis of biomass for the production of drop-in biofuel. <i>Fuel</i> , 2018, 216, 160-170.	3.4	37
444	Theoretical Study on Elementary Reaction Steps in Thermal Decomposition Processes of Syringol-Type Monolignol Compounds. <i>Journal of Physical Chemistry A</i> , 2018, 122, 822-831.	1.1	5
445	Microwave-assisted acid pretreatment of alkali lignin: Effect on characteristics and pyrolysis behavior. <i>Bioresource Technology</i> , 2018, 251, 57-62.	4.8	71
446	Combustion Characteristics Behavior of <i>Pterocarpus indicus</i> Leaves Waste Briquette at Various Particle Size and Pressure. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 417, 012007.	0.3	3
447	Catalytic performance of silicalite-1 modified HY zeolite in the hydrolysis of cellulose. <i>Journal of Fuel Chemistry and Technology</i> , 2018, 46, 1447-1453.	0.9	4
448	Asphalt Modified with Biomaterials as Eco-Friendly and Sustainable Modifiers. , 0, , .		3

#	ARTICLE	IF	CITATIONS
449	Catalytic effect of alkali metals in volatilisation of solid biofuels during gasification. AIP Conference Proceedings, 2018, , .	0.3	2
450	An Overview of Recent Developments in Biomass Pyrolysis Technologies. Energies, 2018, 11, 3115.	1.6	200
451	Critical review on agrowaste cellulose applications for biopolymers. International Journal of Plastics Technology, 2018, 22, 185-216.	2.9	77
452	Modeling and Simulation of Energy Systems: A Review. Processes, 2018, 6, 238.	1.3	99
453	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> -Catalyzed Levulinic Acid Esterification: Production of Fuel Bioadditives. Energies, 2018, 11, 1263.	1.6	20
454	Application of cassava harvest residues ( <i>Manihot esculenta</i> Crantz) in biochemical and thermochemical conversion process for bioenergy purposes: A literature review. African Journal of Biotechnology, 2018, 17, 37-50.	0.3	8
455	Powder biomass fast pyrolysis as in combustion conditions: Numerical prediction and validation. Renewable Energy Focus, 2018, 27, 78-87.	2.2	10
456	Sequential Fractionation of Palm Empty Fruit Bunch and Microwave-Assisted Depolymerization of Lignin for Producing Monophenolic Compounds. ACS Sustainable Chemistry and Engineering, 2018, 6, 16896-16906.	3.2	27
457	Lignocellulose thermal pretreatment and its effect on fuel properties and composition of the condensable products (tar precursors) from char devolatilization for coal substitution in gasification application. Fuel Processing Technology, 2018, 179, 334-343.	3.7	11
458	Impact of biomass diversity on torrefaction: Study of solid conversion and volatile species formation through an innovative TGA-GC/MS apparatus. Biomass and Bioenergy, 2018, 119, 43-53.	2.9	36
459	Separation of value-added chemical groups from bio-oil of olive mill waste. Industrial Crops and Products, 2018, 125, 160-167.	2.5	42
460	Lignin depolymerization and utilization by bacteria. Bioresource Technology, 2018, 269, 557-566.	4.8	145
461	Effects of ceramsite on methane and hydrogen sulphide productions from macroalgae biomass. Journal of Central South University, 2018, 25, 1076-1083.	1.2	0
462	Biomass fast pyrolysis in a shaftless screw reactor: A 1-D numerical model. Energy, 2018, 157, 792-805.	4.5	14
463	Improving the combustion efficiency of diesel fuel and lowering PM <sub>2.5</sub> using palygorskite-based nanocomposite and removing Cd <sup>2+</sup> by the residue. Applied Clay Science, 2018, 162, 276-287.	2.6	2
464	Synergistic Effects between Lignin and Cellulose during Pyrolysis of Agricultural Waste. Energy & Fuels, 2018, 32, 8420-8430.	2.5	39
465	Highly Efficient, Easily Recoverable, and Recyclable Reâ€“SiO <sub>2</sub> â€“Fe <sub>3</sub> O <sub>4</sub> Catalyst for the Fragmentation of Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 9606-9618.	3.2	17
466	Direct conversion of an agricultural solid waste to hydrocarbon gases via the pyrolysis technique. Egyptian Journal of Petroleum, 2018, 27, 991-995.	1.2	16

#	ARTICLE	IF	CITATIONS
467	Thermogravimetric analysis and kinetic study of marine plastic litter. <i>Marine Pollution Bulletin</i> , 2018, 133, 472-477.	2.3	12
468	Recent advances in production and upgrading of bio-oil from biomass: A critical overview. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5101-5118.	3.3	158
469	Pyrolysis of rapeseed oil cake in a fixed bed reactor to produce bio-oil. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 495-502.	2.6	38
470	Pyrolysis behavior and kinetics of corn residue pellets and eucalyptus wood chips in a macro thermogravimetric analyzer. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 546-556.	2.8	60
471	Fast pyrolysis. , 2018, , 3-28.		28
472	Microalgal Biorefineries for Bioenergy Production: Can We Move from Concept to Industrial Reality?. <i>Bioenergy Research</i> , 2018, 11, 727-747.	2.2	59
473	Fully Automated Approach for Bio-crude Mixture Modelling Based on GC-MS and Elemental Analyses. <i>Computer Aided Chemical Engineering</i> , 2018, , 913-918.	0.3	0
474	Recent advances in energy recovery from wastewater sludge. , 2018, , 67-100.		21
475	Biomass Production and Nutrient Removal by <i>Chlorella vulgaris</i> from Anaerobic Digestion Effluents. <i>Energies</i> , 2018, 11, 1654.	1.6	12
476	Characterization and Catalytic Performance of Modified SBA-16 in Liquid Phase Reaction. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	0.6	3
477	First pilot scale study of basic vs acidic catalysts in biomass pyrolysis: Deoxygenation mechanisms and catalyst deactivation. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 346-357.	10.8	105
478	Parametric analysis of pyrolysis process on the product yields in a bubbling fluidized bed reactor. <i>Fuel</i> , 2018, 234, 616-625.	3.4	22
479	Exploring the potential of microalgae for new biotechnology applications and beyond: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 92, 394-404.	8.2	352
480	Versatile catalysis of iron: tunable and selective transformation of biomass-derived furfural in aliphatic alcohol. <i>Green Chemistry</i> , 2018, 20, 3092-3100.	4.6	29
481	1.23 Energy and Air Pollution. , 2018, , 909-949.		24
482	Nanostructured porous carbons with high rate cycling and floating performance for supercapacitor application. <i>AIP Advances</i> , 2018, 8, .	0.6	20
483	Pyrolysis of Lignocellulosic Biomass for Biochemical Production. , 2018, , 323-348.		17
484	Impact of Renewable Technology on Lignocellulosic Material of Palm Fruit Fibre: Strategy for Climate Change and Adaptation. , 2019, , 175-201.		0

#	ARTICLE	IF	CITATIONS
485	A mini review of the specialties of the bio-oils produced from pyrolysis of 20 different biomasses. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109313.	8.2	83
486	Thermo-kinetics of Forest Waste Using Model-Free Methods. <i>Universitas Scientiarum</i> , 2019, 24, 1-31.	0.2	8
487	Influence of CaO and HZSM-5 on oxygen migration in <i>Chlorella vulgaris</i> polysaccharide pyrolysis. <i>Carbon Resources Conversion</i> , 2019, 2, 111-116.	3.2	7
488	Cascade aldol condensation of an aldehyde via the aerobic oxidation of ethanol over an Au/NiO composite. <i>Nanoscale Advances</i> , 2019, 1, 3654-3659.	2.2	14
489	Research progress of biomass fuel upgrading and distributed utilization technology. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 227, 022002.	0.2	2
490	Supercritical Methanol Depolymerization and Hydrodeoxygenation of Maple Wood and Biomass-Derived Oxygenates into Renewable Alcohols in a Continuous Flow Reactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15361-15372.	3.2	19
491	Catalytic thermochemical conversion of biomass for biofuel production: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109266.	8.2	289
492	Gasification Technologies and Their Energy Potentials. , 2019, , 193-206.		41
493	Biofuels: Introduction. , 2019, , 3-43.		36
494	Biohydrogen Production From Bio-Oil via Hydrothermal Liquefaction. , 2019, , 715-732.		2
495	Ce modified Cu/Zn/Al catalysts for direct liquefaction of microcrystalline cellulose in supercritical methanol. <i>Cellulose</i> , 2019, 26, 8291-8300.	2.4	3
496	Bio-based consolidants for waterlogged archaeological wood: Assessment of the performance and optimization of the diagnostic protocol. <i>Journal of Cultural Heritage</i> , 2019, 40, 49-58.	1.5	5
497	Microalgae-based biofuels, resource recovery and wastewater treatment: A pathway towards sustainable biorefinery. <i>Fuel</i> , 2019, 255, 115826.	3.4	144
499	Biochar from microwave pyrolysis of rice husk for tertiary wastewater treatment and soil nourishment. <i>Journal of Cleaner Production</i> , 2019, 235, 1073-1079.	4.6	90
500	Bio-oil production from a lignocellulosic biomass and its fuel characteristics. <i>Journal of Physics: Conference Series</i> , 2019, 1276, 012073.	0.3	4
501	Catalytic system based on nickel(II) acetate and hypophosphorous acid for the selective hydrodeoxygenation of guaiacol. <i>Mendeleev Communications</i> , 2019, 29, 550-552.	0.6	7
502	Agricultural and Forest Residues towards Renewable Chemicals and Materials Using Microwave Liquefaction. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-16.	1.2	17
504	Effect of Zirconia Polymorph on Vapor-Phase Ketonization of Propionic Acid. <i>Catalysts</i> , 2019, 9, 768.	1.6	38

#	ARTICLE	IF	CITATIONS
506	Bio-processing of algal bio-refinery: a review on current advances and future perspectives. <i>Bioengineered</i> , 2019, 10, 574-592.	1.4	114
507	Pyrolysis coupled anaerobic digestion process for food waste and recalcitrant residues: Fundamentals, challenges, and considerations. <i>Energy Science and Engineering</i> , 2019, 7, 2250-2264.	1.9	30
509	Consequential Life Cycle Analysis for Food-Water- Energy-Waste Nexus. <i>Computer Aided Chemical Engineering</i> , 2019, , 1705-1710.	0.3	1
510	Towards an improved pyrolysis system: Integrating solar energy based pre-heating system. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
511	EVALUATION OF DISTILLATION CURVES FOR BIO-OIL OBTAINED FROM THERMAL CRACKING OF WASTE COOKING OIL. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 573-585.	0.7	7
512	Co-production of hydrogen and power from palm mill wastes. <i>Energy Procedia</i> , 2019, 158, 1891-1896.	1.8	3
513	A comprehensive study on estimating higher heating value of biomass from proximate and ultimate analysis with machine learning approaches. <i>Energy</i> , 2019, 188, 116077.	4.5	102
514	A Review of Numerical Modeling and Experimental Analysis of Combustion in Moving Grate Biomass Combustors. <i>Energy &amp; Fuels</i> , 2019, 33, 9367-9402.	2.5	32
515	Recent progress in thermochemical techniques to produce hydrogen gas from biomass: A state of the art review. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25384-25415.	3.8	170
516	Recent trends and challenges of algal biofuel conversion technologies. , 2019, , 167-179.		13
517	Recent advances in liquefaction technologies for production of liquid hydrocarbon fuels from biomass and carbonaceous wastes. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109400.	8.2	66
518	Physico-chemical analysis of pyrolyzed bio-oil from swietenia macrophylla (mahogany) wood. <i>Heliyon</i> , 2019, 5, e01790.	1.4	41
519	Fungi (Mold)-Based Lipid Production. <i>Methods in Molecular Biology</i> , 2019, 1995, 51-89.	0.4	4
520	Biofuel production through micro- and macroalgae pyrolysis “ A review of pyrolysis methods and process parameters. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 142, 104599.	2.6	110
521	Hydrothermal carbonization of sewage sludge: A critical analysis of process severity, hydrochar properties and environmental implications. <i>Waste Management</i> , 2019, 93, 1-13.	3.7	120
522	Sequential Use of Geographic Information System and Mathematical Programming for Optimal Planning for Energy Production Systems from Residual Biomass. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 15818-15837.	1.8	17
523	A study of coke and char formation during pyrolysis of rice husk. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3587-3601.	2.0	6
524	Waste to bioenergy: a review on the recent conversion technologies. <i>BMC Energy</i> , 2019, 1, .	6.3	285

#	ARTICLE	IF	CITATIONS
525	A review on hydrothermal co-liquefaction of biomass. <i>Applied Energy</i> , 2019, 250, 926-945.	5.1	186
526	Date Palm Waste: An Efficient Source for Production of Glucose and Lactic Acid. <i>Sustainable Agriculture Reviews</i> , 2019, , 155-178.	0.6	7
527	Challenges and Opportunities for Bio-oil Refining: A Review. <i>Energy &amp; Fuels</i> , 2019, 33, 4683-4720.	2.5	240
528	A comprehensive review on thermochemical, biological, biochemical and hybrid conversion methods of bio-derived lignocellulosic molecules into renewable fuels. <i>Fuel</i> , 2019, 251, 352-367.	3.4	111
529	Bioremediation and Biofuel Production from <i>Chlorella</i> sp.: A Comprehensive Review. , 2019, , 635-655.		3
530	Lowering greenhouse gas (GHG) emissions: techno-economic analysis of biomass conversion to biofuels and value-added chemicals. , 2019, 9, 454-473.		16
531	Different Cell Disruption and Lipid Extraction Methods from Microalgae for Biodiesel Production. , 2019, , 265-292.		16
532	Surface modification of cellulose via conventional and controlled radiation-induced grafting. <i>Radiation Physics and Chemistry</i> , 2019, 160, 1-8.	1.4	40
533	Synergistic bio-oil production from hydrothermal co-liquefaction of <i>Spirulina platensis</i> and $\beta$ -Cellulose. <i>Energy</i> , 2019, 174, 1283-1291.	4.5	31
534	Fermentation of Oil Extraction: Bioethanol, Acetone and Butanol Production. <i>Biofuel and Biorefinery Technologies</i> , 2019, , 219-249.	0.1	1
535	Exploring the influence of solar pyrolysis operation parameters on characteristics of carbon materials. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 140, 290-298.	2.6	33
536	Modeling of integrated processes for the recovery of the energetic content of sugar cane bagasse. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1057-1067.	1.9	22
537	Au/NiO Composite: A Catalyst for One-Pot Cascade Conversion of Furfural. <i>ACS Applied Energy Materials</i> , 2019, 2, 2654-2661.	2.5	28
538	Niger Seed Thermal Pyrolysis: Characterization of Aqueous Phase Pyrolytic Liquid and Char. <i>SSRN Electronic Journal</i> , 2019, , .	0.4	1
539	Hydrogen production from bio-derived biphasic photoreforming over a raspberry-like amphiphilic Ag <sub>2</sub> O-TiO <sub>2</sub> /SiO <sub>2</sub> catalyst. <i>Chemical Engineering Journal</i> , 2019, 370, 646-657.	6.6	43
540	Thermochemical Conversion: Bio-Oil and Syngas Production. <i>Biofuel and Biorefinery Technologies</i> , 2019, , 251-267.	0.1	4
541	An overview of OPS from oil palm industry as feedstock for bio-oil production. <i>Biomass Conversion and Biorefinery</i> , 2019, 9, 827-841.	2.9	14
542	Process optimization of biomass liquefaction in isopropanol/water with Raney nickel and sodium hydroxide as combined catalysts. <i>Biomass and Bioenergy</i> , 2019, 122, 305-312.	2.9	15

#	ARTICLE	IF	CITATIONS
543	Effect of various blended fuels on syngas quality and performance in catalytic co-gasification: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 252-267.	8.2	99
544	Unlocking the Potential of Biomass Energy in Pakistan. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	33
545	Thermogravimetric characterization and pyrolysis of soybean hulls. <i>Bioresource Technology Reports</i> , 2019, 6, 183-189.	1.5	33
546	Food waste to biochars through pyrolysis: A review. <i>Resources, Conservation and Recycling</i> , 2019, 144, 310-320.	5.3	239
547	Polymer-Modified Bio-Asphalt: A Sustainable Panacea to Greenhouse Gas Emissions. , 0, , .		1
548	Fluidized bed fast pyrolysis of corn stover: Effects of fluidizing gas flow rate and composition. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-13.	1.2	3
549	Effect of Reaction Conditions on Catalytic and Noncatalytic Lignin Solvolysis in Water Media Investigated for a 5 L Reactor. <i>ACS Omega</i> , 2019, 4, 19265-19278.	1.6	7
550	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019, 12, 4116.	1.6	38
551	Simulation of Batch Slow Pyrolysis of Biomass Materials Using the Process-Flow-Diagram COCO Simulator. <i>Processes</i> , 2019, 7, 775.	1.3	11
552	Low-Cost Activated Grape Seed-Derived Hydrochar through Hydrothermal Carbonization and Chemical Activation for Sulfamethoxazole Adsorption. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5127.	1.3	33
553	Sewage sludge as cheap alternative to microalgae as feedstock of catalytic hydrothermal liquefaction processes. <i>Journal of Supercritical Fluids</i> , 2019, 143, 251-258.	1.6	44
554	Bio-energy generation from sagwan sawdust via pyrolysis: Product distributions, characterizations and optimization using response surface methodology. <i>Energy</i> , 2019, 170, 423-437.	4.5	60
555	Predictive single-step kinetic model of biomass devolatilization for CFD applications: A comparison study of empirical correlations (EC), artificial neural networks (ANN) and random forest (RF). <i>Renewable Energy</i> , 2019, 136, 104-114.	4.3	72
556	Current status and future forecasting of biofuels technology development. <i>International Journal of Energy Research</i> , 2019, 43, 1142-1160.	2.2	43
557	Biomass gasification for hydrogen rich gas in a decoupled triple bed gasifier with olivine and NiO/olivine. <i>Bioresource Technology</i> , 2019, 272, 241-248.	4.8	75
558	Production and Formation of Biochar. , 2019, , 3-18.		26
559	Co-pyrolysis and co-gasification of biomass and polyethylene: Thermal behaviors, volatile products and characteristics of their residues. <i>Journal of the Energy Institute</i> , 2019, 92, 1926-1935.	2.7	37
560	Predicting the biomass conversion performance in a fluidized bed reactor using isoconversional model-free method. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1263-1273.	0.9	5



#	ARTICLE	IF	CITATIONS
561	Arsenic Removal of Contaminated Soils by Phytoremediation of Vetiver Grass, Chara Algae and Water Hyacinth. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 102, 134-139.	1.3	15
562	Microalgae to biofuels production: a review on cultivation, application and renewable energy. <i>Reviews on Environmental Health</i> , 2019, 34, 91-99.	1.1	46
563	Life Cycle Assessment of rice husk as an energy source. A Peruvian case study. <i>Journal of Cleaner Production</i> , 2019, 209, 1235-1244.	4.6	58
564	Mechanistic insights into upgrading of biomass-derived phenolic compounds: Comparative study of the impact of Lewis acidity in Zn loaded FAU zeolite on reaction mechanism. <i>Chemical Engineering Journal</i> , 2019, 377, 120236.	6.6	6
565	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102812.	3.3	71
566	Synthesis of biodiesel from chicken's skin waste by homogeneous transesterification. <i>International Journal of Sustainable Engineering</i> , 2019, 12, 272-280.	1.9	14
567	Measuring biomass fast pyrolysis kinetics: State of the art. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2019, 8, e326.	1.9	37
568	Catalytic upgrading of bio-oils over high alumina zeolites. <i>Renewable Energy</i> , 2019, 136, 1304-1310.	4.3	38
569	Role of biomass supply chain management in sustainable bioenergy production. <i>Biofuels</i> , 2019, 10, 109-119.	1.4	16
570	Performance evaluation of bio-based asphalt and asphalt mixture and effects of physical and chemical modification. <i>Road Materials and Pavement Design</i> , 2020, 21, 1470-1489.	2.0	22
571	Techno-Economic and Environmental Analysis of Biogas Production from Plantain Pseudostem Waste in Colombia. <i>Waste and Biomass Valorization</i> , 2020, 11, 3161-3171.	1.8	17
572	Biochar as Sustainable Reinforcement for Polymer Composites. , 2020, , 10-22.		3
573	Algal biorefinery models with self-sustainable closed loop approach: Trends and prospective for blue-bioeconomy. <i>Bioresource Technology</i> , 2020, 295, 122128.	4.8	106
574	Model and sensitivity analysis of the reciprocating biomass conversion reactor (RBCR). <i>International Journal of Heat and Mass Transfer</i> , 2020, 147, 118988.	2.5	2
575	A comprehensive state-of-technology review for upgrading bio-oil to renewable or blended hydrocarbon fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 118, 109548.	8.2	139
576	A hybrid SVR-PSO model to predict a CFD-based optimised bubbling fluidised bed pyrolysis reactor. <i>Energy</i> , 2020, 191, 116414.	4.5	44
577	Modeling the valorization of poultry litter via thermochemical processing. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 242-248.	1.9	10
578	Experimental and analytic study of a hybrid solar/biomass rural heating system. <i>Energy</i> , 2020, 190, 116392.	4.5	30



#	ARTICLE	IF	CITATIONS
579	Biomass for renewable energy production in Pakistan: current state and prospects. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	17
580	Recent advances on catalysts for improving hydrocarbon compounds in bio-oil of biomass catalytic pyrolysis. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 121, 109676.	8.2	173
581	Challenges and alternatives for the adequacy of hydrothermal carbonization of lignocellulosic biomass in cleaner production systems: A review. <i>Journal of Cleaner Production</i> , 2020, 252, 119899.	4.6	98
582	Co-pyrolysis of lignocellulosic and macroalgae biomasses for the production of biochar – A review. <i>Bioresource Technology</i> , 2020, 297, 122408.	4.8	121
583	Biomass-derived phenolics conversion to C10–C13 range fuel precursors over metal ion-exchanged zeolites: Physicochemical characterization of catalysts and process parameter optimization. <i>Renewable Energy</i> , 2020, 149, 489-507.	4.3	4
584	CO <sub>2</sub> to fuel via pyrolysis of banana peel. <i>Chemical Engineering Journal</i> , 2020, 392, 123774.	6.6	29
585	Life cycle assessment of power-generation systems based on biomass integrated gasification combined cycles. <i>Renewable Energy</i> , 2020, 149, 336-346.	4.3	73
586	Analytical strategies for chemical characterization of bio-oil. <i>Journal of Separation Science</i> , 2020, 43, 360-371.	1.3	36
587	Bio-oil production from oleaginous microorganisms using hydrothermal liquefaction: A biorefinery approach. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 356-394.	6.6	21
588	Preparation of bio-oil and its application in asphalt modification and rejuvenation: A review of the properties, practical application and life cycle assessment. <i>Construction and Building Materials</i> , 2020, 262, 120528.	3.2	74
589	Thermochemical conversion of <i>Polyalthia longifolia</i> leaves at different temperatures and characterization of their products. <i>Fuel</i> , 2020, 280, 118574.	3.4	16
590	ASPEN Plus predictive simulation of soft and hard wood pyrolysis for bio-energy recovery. <i>International Journal of Environment and Waste Management</i> , 2020, 26, 234.	0.2	16
591	Applications of biomass-derived materials for energy production, conversion, and storage. <i>Materials Science for Energy Technologies</i> , 2020, 3, 905-920.	1.0	36
592	Management of Crop Residues for Improving Input Use Efficiency and Agricultural Sustainability. <i>Sustainability</i> , 2020, 12, 9808.	1.6	81
593	Nanoporous catalysts for biomass conversion. , 2020, , 387-440.		2
594	Biomass Pyrolysis Liquefaction Technique: State of Research and Development Trends. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 558, 022016.	0.2	3
595	Renewable hydrogen production by aqueous-phase reforming of Glycerol using Ni/Al <sub>2</sub> O <sub>3</sub> -MgO nano-catalyst: effect of the Ni loading. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 237-246.	2.9	3
596	Composition and lability of riverine dissolved organic matter: Insights from thermal slicing ramped pyrolysis GC-MS, amino acid, and stable isotope analyses. <i>Organic Geochemistry</i> , 2020, 149, 104100.	0.9	10

#	ARTICLE	IF	CITATIONS
597	Heterogeneous catalysts for hydrothermal liquefaction of lignocellulosic biomass: A review. <i>Biomass and Bioenergy</i> , 2020, 140, 105662.	2.9	75
599	Bioconversion of municipal solid waste into bio-based products: A review on valorisation and sustainable approach for circular bioeconomy. <i>Science of the Total Environment</i> , 2020, 748, 141312.	3.9	83
600	Sustainable energy and fuels from biomass: a review focusing on hydrothermal biomass processing. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4390-4414.	2.5	140
601	Slow pyrolysis as a platform for negative emissions technology: An integration of machine learning models, life cycle assessment, and economic analysis. <i>Energy Conversion and Management</i> , 2020, 223, 113258.	4.4	119
602	Thermal decomposition of Gayo Arabica coffee-pulp in a segmented chamber. <i>Journal of Physics: Conference Series</i> , 2020, 1500, 012076.	0.3	4
603	Effect of fuel composition uncertainty on grate firing biomass combustor performance: a Bayesian model averaging approach. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2781-2797.	2.9	2
604	Different Pyrolysis Process Conditions of South Asian Waste Coconut Shell and Characterization of Gas, Bio-Char, and Bio-Oil. <i>Energies</i> , 2020, 13, 1970.	1.6	53
605	Production of antioxidants and other value-added compounds from coffee silverskin via pyrolysis under a biorefinery approach. <i>Waste Management</i> , 2020, 109, 19-27.	3.7	42
606	Lignin as a Renewable Resource of Hydrocarbon Products and Energy Carriers (A Review). <i>Petroleum Chemistry</i> , 2020, 60, 227-243.	0.4	41
607	Comprehensive review on pyrolytic oil production, upgrading and its utilization. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1712-1722.	1.6	48
609	Hydrothermal liquefaction of waste biomass in stirred reactors: One step forward to the integral valorization of municipal sludge. <i>Energy</i> , 2020, 201, 117606.	4.5	24
610	Comparison of the Slow Pyrolysis Behavior and Kinetics of Coal, Wood and Algae at High Heating Rates. <i>Natural Resources Research</i> , 2020, 29, 3943-3955.	2.2	15
611	Hydrothermal liquefaction of high ash containing sewage sludge at sub and supercritical conditions. <i>Biomass and Bioenergy</i> , 2020, 135, 105504.	2.9	69
612	Synergistic effects of CO <sub>2</sub> on ex situ catalytic pyrolysis of lignocellulosic biomass over a Ni/SiO <sub>2</sub> catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 39, 101182.	3.3	19
613	Power generation using rice husk derived fuels from CO <sub>2</sub> -assisted catalytic pyrolysis over Co/Al <sub>2</sub> O <sub>3</sub> . <i>Energy</i> , 2020, 206, 118143.	4.5	10
614	Storage of Fine Woodchips from a Medium Rotation Coppice Eucalyptus Plantation in Central Italy. <i>Energies</i> , 2020, 13, 2355.	1.6	10
615	The effects of Microalgae Biomass Co-Substrate on Biogas Production from the Common Agricultural Biogas Plants Feedstock. <i>Energies</i> , 2020, 13, 2186.	1.6	33
616	Kinetic analysis and thermodynamics properties of air/steam gasification of agricultural waste. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103829.	3.3	67

#	ARTICLE	IF	CITATIONS
618	Biofuel Production Technologies: Critical Analysis for Sustainability. Clean Energy Production Technologies, 2020, , .	0.3	6
619	Catalytic tar conversion and the prospective use of iron-based catalyst in the future development of biomass gasification: a review. Biomass Conversion and Biorefinery, 2022, 12, 1369-1392.	2.9	28
620	Catalytic Conversion of Coal and Biomass Volatiles: A Review. Energy & Fuels, 2020, 34, 10307-10363.	2.5	110
621	Comparison of selective acidolysis of xylan and enzymatic hydrolysability of cellulose in various lignocellulosic materials by a novel xylonic acid catalysis method. Bioresource Technology, 2020, 304, 122943.	4.8	29
622	Comparison of Combustion and Pyrolysis Behavior of the Peanut Shells in Air and N <sub>2</sub> : Kinetics, Thermodynamics and Gas Emissions. Sustainability, 2020, 12, 464.	1.6	23
623	Systematic production and characterization of pyrolysis-oil from date tree wastes for bio-fuel applications. Biomass and Bioenergy, 2020, 135, 105523.	2.9	57
624	A state-of-the-art review on thermochemical conversion of biomass for biofuel production: A TG-FTIR approach. Energy Conversion and Management, 2020, 209, 112634.	4.4	238
625	Bio-oil production from residual biomass of microalgae after lipid extraction: The case of Dunaliella Sp. Biocatalysis and Agricultural Biotechnology, 2020, 23, 101494.	1.5	36
626	Design and Modeling of a Fuel Cell System Using Biomass Feedstock as a Biofuel. Fuel Cells, 2020, 20, 89-97.	1.5	0
627	Performance of bitumen coating sheet using biomass pyrolysis oil. Journal of the Air and Waste Management Association, 2020, 70, 219-227.	0.9	6
628	Substrate Analysis for Effective Biofuels Production. Clean Energy Production Technologies, 2020, , .	0.3	3
630	A DEM modeling of biomass fast pyrolysis in a double auger reactor. International Journal of Heat and Mass Transfer, 2020, 150, 119308.	2.5	23
631	Modelling of thermochemical energy recovery processes for switchgrass ( <i>Panicum virgatum</i> ). Indian Chemical Engineer, 2021, 63, 240-251.	0.9	7
632	Fast pyrolysis of LERDADEs for renewable biofuels. IET Renewable Power Generation, 2020, 14, 959-967.	1.7	46
633	Renewable Pulverized Biomass Fuel for Internal Combustion Engines. Processes, 2020, 8, 465.	1.3	6
634	Pyrolysis of cellulose with co-feeding of formic or acetic acid. Cellulose, 2020, 27, 4909-4929.	2.4	9
635	Bio-methanol as a renewable fuel from waste biomass: Current trends and future perspective. Fuel, 2020, 273, 117783.	3.4	120
636	Waste into energy conversion technologies and conversion of food wastes into the potential products: a review. International Journal of Ambient Energy, 2021, 42, 1083-1101.	1.4	26

#	ARTICLE	IF	CITATIONS
637	Production, identification, and quantification of antioxidants from torrefaction and pyrolysis of grape pomace. <i>Fuel Processing Technology</i> , 2021, 211, 106602.	3.7	15
638	Waste materials in highway applications: An overview on generation and utilization implications on sustainability. <i>Journal of Cleaner Production</i> , 2021, 283, 124581.	4.6	50
639	Lignocellulosic biomass as sustainable feedstock and materials for power generation and energy storage. <i>Journal of Energy Chemistry</i> , 2021, 57, 247-280.	7.1	225
640	Kinetic and thermodynamic analysis of <i>Putranjiva roxburghii</i> (putranjiva) and <i>Cassia fistula</i> (amaltas) non-edible oilseeds using thermogravimetric analyzer. <i>Renewable Energy</i> , 2021, 165, 261-277.	4.3	56
641	Biomass-to-hydrogen: A review of main routes production, processes evaluation and techno-economical assessment. <i>Biomass and Bioenergy</i> , 2021, 144, 105920.	2.9	234
642	Emissions of PM10 from the co-combustion of high-Ca pyrolyzed biochar and high-Si coal under air and oxyfuel atmosphere. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4091-4099.	2.4	14
643	Thermal Plasma Treatment of Medical Waste. <i>Plasma Chemistry and Plasma Processing</i> , 2021, 41, 1-46.	1.1	38
644	Thermochemical Conversion of Biomass and Upgrading of Bio-Products to Produce Fuels and Chemicals. , 2021, , 1-47.		0
645	Resource Utilization of Agricultural/Forestry Residues via Fractionation into Cellulose, Hemicellulose and Lignin. <i>Green Chemistry and Sustainable Technology</i> , 2021, , 179-204.	0.4	1
646	Agricultural biomass as value chain developers in different sectors. , 2021, , 467-509.		1
647	Developments in waste tyre thermochemical conversion processes: gasification, pyrolysis and liquefaction. <i>RSC Advances</i> , 2021, 11, 11844-11871.	1.7	30
648	Pyrolysis of Lignocellulosic Waste from Second-Generation Ethanol Industry. <i>Sugar Tech</i> , 2021, 23, 615-626.	0.9	5
649	Food Waste Properties. , 2021, , 11-41.		3
650	Changes of lignin biosynthesis in tobacco leaves during maturation. <i>Functional Plant Biology</i> , 2021, 48, 624.	1.1	8
651	Waste to Bioenergy: Recent Technologies. <i>Clean Energy Production Technologies</i> , 2021, , 85-126.	0.3	0
652	Biomass Pyrolysis: Current Status and Future Prospects. <i>Clean Energy Production Technologies</i> , 2021, , 37-60.	0.3	0
653	Polymeric waste valorization at a crossroads: ten ways to bridge the research on model and complex/real feedstock. <i>Green Chemistry</i> , 2021, 23, 4656-4664.	4.6	10
654	Circular Economy Approach to Address the Industrial Solid Waste Management. , 2021, , 1-20.		0

#	ARTICLE	IF	CITATIONS
655	Bioenergy: Sustainable Renewable Energy. <i>Clean Energy Production Technologies</i> , 2021, , 27-53.	0.3	0
656	Study of Pyrolyzates from a Variety of Indian Coals and Their Dependency on Coal Type and Intrinsic Properties – An Analytical Fast Pyrolysis Study. <i>Combustion Science and Technology</i> , 0, , 1-22.	1.2	1
657	Combustion Characteristics and Behaviour of Agricultural Biomass: A Short Review. , 0, , .		1
658	A review on catalytic pyrolysis for high-quality bio-oil production from biomass. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 2595-2614.	2.9	31
659	Production and characterization of the maximum liquid product obtained from co-pyrolysis of sugarcane bagasse and thermocol waste. <i>Cellulose</i> , 2021, 28, 4223-4239.	2.4	10
660	Co-Production of Bio-Ethanol and Bio-Oil from Different Species of Macroalgae. <i>ChemistrySelect</i> , 2021, 6, 2424-2427.	0.7	5
661	Pyrolysis-catalytic upgrading of bio-oil and pyrolysis-catalytic steam reforming of biogas: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2825-2872.	8.3	40
662	Applications of artificial intelligence-based modeling for bioenergy systems: A review. <i>GCB Bioenergy</i> , 2021, 13, 774-802.	2.5	62
664	Physio-Chemical Characterization of Biochar, Compost and Co-Composted Biochar Derived from Green Waste. <i>Sustainability</i> , 2021, 13, 4628.	1.6	32
665	Effect of zeolite catalyst concentration on bio-fuel characteristics of corncobs ( <i>Zea mays</i> L.) produced by pyro-catalytic method. <i>Journal of Physics: Conference Series</i> , 2021, 1876, 012008.	0.3	0
666	The Potential of Sustainable Biomass Producer Gas as a Waste-to-Energy Alternative in Malaysia. <i>Sustainability</i> , 2021, 13, 3877.	1.6	10
667	Physicochemical Properties of Wood Sawdust: A Preliminary Study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1107, 012125.	0.3	1
668	Thermochemical putrefaction of <i>Delonix regia</i> biomass and tube waste to produce high-quality pyrolytic bio-oil. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 2969-2983.	2.0	6
669	Physiochemical Properties of Biochar and Activated Carbon from Biomass Residue: Influence of Process Conditions to Adsorbent Properties. <i>ACS Omega</i> , 2021, 6, 10224-10233.	1.6	47
671	Pre- and post-pyrolysis effects on iron impregnation of ultrasound pre-treated softwood biochar for potential catalysis applications. <i>SN Applied Sciences</i> , 2021, 3, 643.	1.5	3
674	Oriented valorization of cellulose and xylan into anhydrosugars by using low-temperature pyrolysis. <i>Fuel</i> , 2021, 291, 120156.	3.4	19
675	Production of Levulinic Acid from Coconut Residues ( <i>Cocos nucifera</i> ) Using Different Approaches. <i>Waste and Biomass Valorization</i> , 2021, 12, 6875-6886.	1.8	7
676	A Review on the Thermochemical Recycling of Waste Tyres to Oil for Automobile Engine Application. <i>Energies</i> , 2021, 14, 3837.	1.6	25

#	ARTICLE	IF	CITATIONS
677	Utilization of <i>Eichhornia crassipes</i> biomass for production of biochar and its feasibility in agroecosystems: a review. <i>Environmental Sustainability</i> , 2021, 4, 285-297.	1.4	9
678	Co-thermal degradation characteristics of rice straw and sewage sludge. <i>Sustainable Environment Research</i> , 2021, 31, .	2.1	9
679	Fundamentals and applications of char in biomass tar reforming. <i>Fuel Processing Technology</i> , 2021, 216, 106782.	3.7	59
680	Hydrothermal Liquefaction Conversion of Lignocelluloses and waste Biomass Using Zeolite Catalyst. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 790, 012036.	0.2	3
681	Sustainable pilot-scale production of a <i>Salicornia</i> oil, its conversion to certified aviation fuel, and techno-economic analysis of the related biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , 2022, 16, 27-42.	1.9	6
682	Carbon substrates: a review on fabrication, properties and applications. <i>Carbon Letters</i> , 2021, 31, 557-580.	3.3	66
683	Synergistic effects of catalytic co-pyrolysis of corn cob and HDPE waste mixtures using weight average global process model. <i>Renewable Energy</i> , 2021, 170, 948-963.	4.3	73
684	Robust Hydrogen Production via Pickering Interfacial Catalytic Photoreforming of n-Octanol-Water Biphasic System. <i>Frontiers in Chemistry</i> , 2021, 9, 712453.	1.8	1
685	Performance of functionalized magnetic nanocatalysts and feedstocks on biodiesel production: A review study. <i>Journal of Cleaner Production</i> , 2021, 305, 127200.	4.6	35
686	Cycling pressure-switching process enriches micropores in activated carbon by accelerating reactive gas internal diffusion in porous channels. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00248.	1.7	2
687	Shifting from fossil-based economy to bio-based economy: Status quo, challenges, and prospects. <i>Energy</i> , 2021, 228, 120533.	4.5	66
688	Review of Biomass Energy Resources with Livestock Manure. <i>Green Energy and Technology</i> , 2022, , 125-155.	0.4	0
689	A review on co-pyrolysis of biomass with plastics and tires: recent progress, catalyst development, and scaling up potential. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8747-8771.	2.9	9
690	Performance and emission analysis of co-pyrolytic oil obtained from sugarcane bagasse and polystyrene in a CI engine. <i>Fuel</i> , 2021, 298, 120813.	3.4	17
691	Effects of ultraviolet exposure on physicochemical and mechanical properties of bio-modified rubberized bitumen: Sustainability promotion and resource conservation. <i>Resources, Conservation and Recycling</i> , 2021, 171, 105626.	5.3	24
692	Management of Lignocellulosic Waste towards Energy Recovery by Pyrolysis in the Framework of Circular Economy Strategy. <i>Energies</i> , 2021, 14, 5864.	1.6	16
693	Multi-parametric optimization of the catalytic pyrolysis of pig hair into bio-oil. <i>Clean Energy</i> , 2021, 5, 527-535.	1.5	5
694	Pirina'nın Bitimsel Fiziksel ve Mikroyapısal Özellikleri Üzerindeki Etkisi. <i>Deu Muhendislik Fakultesi Fen Ve Muhendislik</i> , 2021, 23, 1015-1025.	0.1	1

#	ARTICLE	IF	CITATIONS
695	Sugarcane bagasse pyrolysis: A review of operating conditions and products properties. Renewable and Sustainable Energy Reviews, 2021, 149, 111394.	8.2	56
696	Recent developments in investigating reaction chemistry and transport effects in biomass fast pyrolysis: A review. Renewable and Sustainable Energy Reviews, 2021, 150, 111454.	8.2	48
697	Improved bio-oil upgrading due to optimized reactor temperature profile. Fuel Processing Technology, 2021, 222, 106977.	3.7	9
698	Polymerization of sugars/furan model compounds and bio-oil during the acid-catalyzed conversion "A review. Fuel Processing Technology, 2021, 222, 106958.	3.7	12
699	Analysis of micromechanical properties of algae bio-based bio-asphalt-mineral interface based on molecular simulation technology. Construction and Building Materials, 2021, 306, 124888.	3.2	19
700	Study on self-derived products of nanometer lignin in silicon nitride ceramics during sintering process. Results in Materials, 2021, 12, 100228.	0.9	4
701	Variation of lignocellulosic biomass structure from torrefaction: A critical review. Renewable and Sustainable Energy Reviews, 2021, 152, 111698.	8.2	86
702	Single-atom catalysts for biomass-derived drop-in chemicals. , 2022, , 63-100.		4
703	Value-added products from lignin: Isolation, characterization and applications. , 2021, , 33-55.		2
704	Effects of Algal Biomass Blending on Coal Decomposition Behaviour and Kinetics at Intermediate Pyrolysis Regimes. Asian Journal of Chemistry, 2021, 33, 1379-1384.	0.1	1
705	Research progress and hot spots of hydrothermal liquefaction for bio-oil production based on bibliometric analysis. Environmental Science and Pollution Research, 2021, 28, 7621-7635.	2.7	18
706	The thousand faces of Cu-doped porous mixed oxides (Cu-PMO) in the conversion of renewable resources and beyond. Advances in Inorganic Chemistry, 2021, , 59-98.	0.4	4
708	Conversion of Biomass to Methanol and Ethanol. , 2019, , 61-72.		3
709	A Short Overview of Analytical Techniques in Biomass Feedstock Characterization. Green Energy and Technology, 2020, , 21-46.	0.4	2
710	Pyrolytic Products from Oil Palm Biomass and Its Potential Applications. Applied Environmental Science and Engineering for A Sustainable Future, 2020, , 225-236.	0.2	3
711	Production of Algal Biomass. , 2014, , 207-224.		4
712	Production, Upgrading and Analysis of Bio-oils Derived from Lignocellulosic Biomass. , 2015, , 1219-1250.		1
713	Computer-Aided Modeling of Thermochemical Conversion Processes for Environmental Waste Management. , 2020, , 1-16.		5



#	ARTICLE	IF	CITATIONS
714	Effect of Heterogeneous Catalyst on Esterification of Pyrolysis Oil. Springer Proceedings in Energy, 2018, , 219-229.	0.2	4
715	Algal Biomass: Potential Renewable Feedstock for Biofuels Production – Part I. Clean Energy Production Technologies, 2020, , 203-237.	0.3	18
716	Impact of Bioenergy on Environmental Sustainability. Energy, Environment, and Sustainability, 2020, , 133-158.	0.6	3
717	Conversion of Rice Husk and Nutshells into Gaseous, Liquid, and Solid Biofuels. , 2020, , 171-194.		4
718	Assessing the impact of woody and agricultural biomass variability on its behaviour in torrefaction through Principal Component Analysis. Biomass and Bioenergy, 2020, 134, 105474.	2.9	14
719	Performance analysis of waste-to-energy technologies for sustainable energy generation in integrated supply chains. Computers and Chemical Engineering, 2020, 140, 106905.	2.0	27
720	Comparative study on pyrolysis of Delonix Regia, Pinewood sawdust and their co-feed for plausible bio-fuels production. Energy, 2020, 203, 117921.	4.5	28
721	Water hyacinth as a biomass: A review. Journal of Cleaner Production, 2020, 277, 122214.	4.6	80
723	Energy characterization of residual biomass in Mediterranean Area for small biomass gasifiers in according to the European Standards. Applied Mathematical Sciences, 0, 8, 6621-6633.	0.0	7
724	A Study on Torrefaction Characteristics of Sewage Sludge. Applied Chemistry for Engineering, 2014, 25, 510-514.	0.2	4
725	Performance of a drop-in biofuel emulsion on a single-cylinder research diesel engine. Silniki Spalinowe, 2016, 166, 9-16.	0.4	9
726	Investigation Of Lauric Acid Conversion With The STA Incorporated Heterogeneous Catalysts In Liquid Phase Reaction. Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, 2019, 6, .	0.1	3
727	Enzymed Pretreated Empty Palm Fruit Bunch for Biofuel Production. Journal of Applied Sciences, 2010, 10, 1181-1186.	0.1	12
728	Co-pyrolysis and Catalytic Co-pyrolysis of Waste Tyres with Oil Palm Empty Fruit Bunches. Journal of Applied Sciences, 2011, 11, 2448-2451.	0.1	9
729	Directly catalytic upgrading bio-oil vapor produced by prairie cordgrass pyrolysis over Ni/HZSM-5 using a two stage reactor. AIMS Energy, 2015, 3, 227-240.	1.1	26
730	Physical and Morphological Structure of Chicken Feathers (Keratin Biofiber) in Natural, Chemically and Thermally Modified Forms. Materials Sciences and Applications, 2012, 03, 887-893.	0.3	20
731	Antifungal Effectiveness of Pyrolytic Oil Obtained from Triplochiton scleroxylon (De. Wild) Sawdust on Selected Wood Species. Journal of Advances in Microbiology, 0, , 8-13.	0.2	1
732	Efficiently and Directly Produce Triacetyl glycerol from Oils and Fats Over Mesoporous Polymer Solid Acid Catalysts. SSRN Electronic Journal, 0, , .	0.4	0



#	ARTICLE	IF	CITATIONS
733	Estudo comparativo dos bio-Óleos obtidos por pirólises rápida e lenta do caroço de pêssego. Engenharia Sanitaria E Ambiental, 2021, 26, 757-764.	0.1	1
734	Catalysts and their role in biomass gasification and tar abatement: a review. Biomass Conversion and Biorefinery, 0, , 1.	2.9	19
735	Hydrogen Production Technologies: From Fossil Fuels toward Renewable Sources. A Mini Review. Energy & Fuels, 2021, 35, 16403-16415.	2.5	286
736	Preparation and Application in Water Treatment of Magnetic Biochar. Frontiers in Bioengineering and Biotechnology, 2021, 9, 769667.	2.0	12
737	Progress of the Pyrolyzer Reactors and Advanced Technologies for Biomass Pyrolysis Processing. Sustainability, 2021, 13, 11061.	1.6	44
738	Exploring and visualizing co-patent networks in bioenergy field: A perspective from inventor, transnational inventor, and country. International Journal of Green Energy, 2022, 19, 562-575.	2.1	3
739	Thermochemical Conversion Of Food Processing Wastes For Energy Utilization. , 2008, , .		0
741	Bio-Oil dari Limbah Padat Sawit dengan Metoda Pirolisa. Jurnal Natur Indonesia, 2012, 11, 124.	0.1	0
742	Study on Torrefaction Characteristics of Baggase. Korean Chemical Engineering Research, 2014, 52, 672-677.	0.2	1
743	Model of Fast Pyrolysis of a Small Volume-Fraction of Biomass Within an Gas of Transient Temperature and Pressure. , 2015, , .		0
744	Extraction of Lignin from Wheat Straw in 1, 4-Butanediol Medium Catalyzed by NaOH. , 2015, , .		1
745	PIRÓLISE RÁPIDA DE CASCA DE SOJA: COMPARAÓFO ENTRE O BIO-ÓLEO PROVENIENTE DE REATOR DE LEITO FLUIDIZADO E OS VAPORES GERADOS NA PIRÓLISE ANALÁTICA. , 0, , .		0
746	The Effect of Molecular Sieve Addition on the Thermal Decomposition of Japanese Cedar. International Journal of Electrical Energy, 2016, , .	0.4	1
747	SPECTROFLUOROMETRIC CHARACTERIZATION OF OIL FROM PYROLYSIS OF SCRAP TIRES. Journal of KONES, 2016, 23, 25-30.	0.2	0
748	Hydrothermal and Thermochemical Synthesis of Bio-Oil from Lignocellulosic Biomass: Composition, Engineering and Catalytic Upgrading. , 2016, , 325-370.		1
749	Review of Synthetic Fuels and New Materials Production Based on Pyrolysis Technologies. , 2017, , 65-85.		2
750	The Effect of Molecular Sieves on the Thermolysis of Cedar in a Tubular Furnace Reactor. International Journal of Environmental Science and Development, 2017, 8, 327-330.	0.2	0
751	Recent Advances in Heterogeneous Catalysts for Biodiesel Production. , 0, 4, 1-5.		3

#	ARTICLE	IF	CITATIONS
752	From Biomass to Bio-oil: Processes and Treatments to Convert Raw Material into Energy. International Journal of Chemical Engineering Research, 2018, 5, 1-10.	0.3	0
753	Waste to Energy: Developing Countries's Perspective. , 2019, , 167-176.		1
754	Production of Biofuel from Microalgae. SpringerBriefs in Energy, 2019, , 45-66.	0.2	0
755	Production of Liquid Biofuels from Biomass. Green Energy and Technology, 2019, , 1-33.	0.4	1
756	A pilot study for the pyrolysis of the urea formaldehyde-melamine formaldehyde resin paper waste. Thermal Science, 2019, 23, 253-266.	0.5	0
759	Chemical Analysis and Fatty Acid Composition of the Chicory Plant (Cichorium Intybus L.) by GC-MS. Journal of Engineering Technology and Applied Sciences, 2019, 4, 51-62.	0.2	2
760	Advances in Pd Membranes for Hydrogen Production from Residual Biomass and Wastes. Environmental Chemistry for A Sustainable World, 2020, , 455-512.	0.3	0
761	Analy SIS of biomasses for their thermochemical transformations to biofuels. International Journal of Energy Production and Management, 2020, 5, 115-124.	1.9	1
762	CFD STUDIES OF MIXING BEHAVIOR OF INERT SAND WITH BIOMASS IN FLUIDIZED BED. Journal of Mechanics of Continua and Mathematical Sciences, 2020, 15, .	0.0	0
763	Optimization and modeling of process parameters on the yield of enhanced pyrolysis oil during co-pyrolysis of cassava peel with polystyrene. Environmental Challenges, 2021, 5, 100347.	2.0	10
764	Effect of Diglyme on Simultaneous Reduction of NO and Smoke in a Third-Generation Biofuel Derived from Waste in a Tractor Engine. Lecture Notes in Mechanical Engineering, 2020, , 655-667.	0.3	1
765	Thermochemical Characterization of Biomass Residues and Wastes for Bioenergy. Green Energy and Technology, 2020, , 93-100.	0.4	0
766	Biochar as an Adsorbent: A Short Overview. Green Energy and Technology, 2020, , 399-422.	0.4	4
767	Algal Biofuel: A Sustainable Approach for Fuel of Future Generation. , 2021, , 3-29.		2
768	Fundamental Theories and Kinetic Models for the Pyrolysis of Lignocellulosic Biomass Wastes. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 123-151.	0.3	1
769	A Biorefinery Based Zero-Waste Utilization of Non-edible Oilseeds for Biodiesel and Biofuel Production Along with Chemicals and Biomaterials. Clean Energy Production Technologies, 2020, , 21-55.	0.3	0
770	Recent Progress in Emerging Microalgae Technology for Biofuel Production. Clean Energy Production Technologies, 2020, , 79-122.	0.3	1
771	Master-eÄriler kinetik yÄnteminin izotermal olmayan selÄ¼loz pirolizine uygulanmasÄ± ve piroliz iÄyleminin termodinamik analizi. Bilecik Åzeyh Edebali Åniversitesi Fen Bilimleri Dergisi, 0, 7, 320-335.	0.1	0

#	ARTICLE	IF	CITATIONS
772	A Review of Recent Research on Catalytic Biomass Pyrolysis and Low-Pressure Hydrolysis. Energy & Fuels, 2021, 35, 18333-18369.	2.5	17
773	An In Silico Temperature Sensitivity Study of the Pyrolysis of Beech, Ailanthus and Spruce. European Journal of Sustainable Development Research, 2020, 4, em0137.	0.4	1
775	Sustainable energy generation from municipal solid waste. , 2022, , 315-342.		3
776	Pyrolysis. , 2022, , 279-300.		2
777	Integrated conversion technologies for sustainable agri-food waste valorization: A critical review. Biomass and Bioenergy, 2022, 156, 106314.	2.9	20
778	Conversion of biomass to biofuels. , 2022, , 49-67.		3
779	Strategic consideration as feedstock resource for biofuel production as a holistic approach to control invasive plant species. , 2022, , 245-268.		3
780	Microwave co-pyrolysis of PET bottle waste and rice husk: effect of plastic waste loading on product formation. Sustainable Energy Technologies and Assessments, 2022, 49, 101781.	1.7	14
781	Current Status of the Pyrolysis and Gasification Mechanism of Biomass. Energies, 2021, 14, 7541.	1.6	24
782	Fuel Generation from CO2. Advances in Science, Technology and Innovation, 2022, , 63-78.	0.2	0
783	Algae Biomass as a Potential Source of Liquid Fuels. Phycology, 2021, 1, 105-118.	1.7	10
784	Crude Glycerol as a Potential Feedstock for Future Energy via Thermochemical Conversion Processes: A Review. Sustainability, 2021, 13, 12813.	1.6	21
785	Chemicals component yield prediction and kinetic parameters determination of oil palm shell pyrolysis through volatile state approach and experimental study. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105399.	2.6	20
786	Characteristics of hydrogen production from steam gasification of plant-originated lignocellulosic biomass and its prospects in Vietnam. International Journal of Hydrogen Energy, 2022, 47, 4394-4425.	3.8	110
787	Sustainable bioprocess technologies for urban waste valorization. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100166.	2.9	11
788	Hydrotalcite as a deoxygenation catalyst in fast pyrolysis of biomass for the production of high quality bio-oil. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105431.	2.6	10
789	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part I: Chemical pathways and bio-oil upgrading. Renewable Energy, 2022, 185, 483-505.	4.3	29
790	Lignin depolymerization and biotransformation to industrially important chemicals/biofuels. Fuel, 2022, 312, 122935.	3.4	29

#	ARTICLE	IF	CITATIONS
791	Co-Pyrolysis of Food and Plastic Waste for Synergistic Biofuel Production: Product Distribution and Reaction Kinetics. SSRN Electronic Journal, 0, , .	0.4	0
794	Catalytic steam reforming of simulated bio-oil for green hydrogen production using highly active LaNi <sub>1-x</sub> Co <sub>1-x</sub> O <sub>3</sub> perovskite catalysts. Sustainable Energy and Fuels, 2022, 6, 1063-1074.	2.5	7
795	Sustainable Production of Biochar, Bio-Gas and Bio-Oil from Lignocellulosic Biomass and Biomass Waste. Energy, Environment, and Sustainability, 2022, , 177-205.	0.6	1
796	Co-liquefaction of sewage sludge with wheat straw in supercritical water â€” potential for integrating hydrothermal liquefaction with wastewater treatment plants. Sustainable Energy and Fuels, 2022, 6, 1269-1280.	2.5	7
797	Bio-Crude Production from Protein-Extracted Grass Residue through Hydrothermal Liquefaction. Energies, 2022, 15, 364.	1.6	6
799	Enhancing water repellency and decay resistance of wood by using water-soluble fractions separated from pyrolytic lignin of fast-pyrolysis bio-oil. Industrial Crops and Products, 2022, 177, 114540.	2.5	5
800	A review on hydrothermal liquefaction of algal biomass on process parameters, purification and applications. Fuel, 2022, 313, 122679.	3.4	54
802	Circular Economy Approach to Address the Industrial Solid Waste Management. , 2022, , 421-440.		1
803	Syngas production via biomass gasification. , 2022, , 211-261.		4
805	Biomass, Bioenergy, and Biofuels. , 2022, , 463-485.		1
807	Making biomass from phytoremediation fruitful: Future goal of phytoremediation. , 2022, , 275-317.		0
808	Synergetic Biofuel Production from Co-Pyrolysis of Food and Plastic Waste: Reaction Kinetics and Product Behavior. SSRN Electronic Journal, 0, , .	0.4	0
809	Microalgal Biorefinery Conceptsâ€™ Developments for Biofuel and Bioproducts: Current Perspective and Bottlenecks. International Journal of Molecular Sciences, 2022, 23, 2623.	1.8	34
810	The Influence of a New Food Waste Bio-Oil (FWBO) Rejuvenating Agent on Cracking Susceptibility of Aged Binder and RAP. Sustainability, 2022, 14, 3673.	1.6	0
811	Design and scale-up challenges in hydrothermal liquefaction process for biocrude production and its upgradation. Energy Conversion and Management: X, 2022, 14, 100223.	0.9	5
812	Renewable binders from waste biomass for road construction: A review on thermochemical conversion technologies and current developments. Construction and Building Materials, 2022, 330, 127076.	3.2	15
813	Insight on zero waste approach for sustainable microalgae biorefinery: Sequential fractionation, conversion and applications for high-to-low value-added products. Bioresource Technology Reports, 2022, 18, 101003.	1.5	14
814	Pyrolysis-catalytic steam/dry reforming of processed municipal solid waste for control of syngas H <sub>2</sub> :CO ratio. Journal of the Energy Institute, 2022, 102, 128-142.	2.7	8

#	ARTICLE	IF	CITATIONS
815	Thermochemical and Catalytic Conversion Technologies for the Development of Brazilian Biomass Utilization. <i>Catalysts</i> , 2021, 11, 1549.	1.6	4
816	Advance on the pyrolytic transformation of cellulose. <i>Journal of Fuel Chemistry and Technology</i> , 2021, 49, 1733-1752.	0.9	13
817	Factors Affecting the Sensitivity of Hydroxyl Group Content Analysis of Biocrude Products via Phosphitylation and <sup>31</sup> P NMR Spectroscopy. <i>Energy &amp; Fuels</i> , 2021, 35, 20142-20150.	2.5	0
818	Advanced thermochemical conversion of algal biomass to liquid and gaseous biofuels: A comprehensive review of recent advances. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102211.	1.7	8
819	Catalytic Upgrading of Bio-oils. <i>RSC Green Chemistry</i> , 2018, , 181-205.	0.0	0
825	Microalgal biofuels: A sustainable pathway for renewable energy. , 2022, , 187-222.		5
827	The methods of biofuel generation by using microalgae: A review. <i>NeuroPharmac Journal</i> , 0, , 311-318.	0.1	0
828	A comprehensive study on production of methanol from wind energy. <i>Environmental Technology and Innovation</i> , 2022, 28, 102589.	3.0	6
829	PENGGUNAAN PUPUK ANORGANIK DAN CAMPURAN BIOCHAR DENGAN PUPUK KANDANG TERHADAP PERTUMBUHAN KACANG KEDELAI ( <i>Glycine max</i> L. Merrill). , 2022, 10, 6-13.		0
830	Hydrogen-Rich Gas Production with the Ni-La/Al <sub>2</sub> O <sub>3</sub> -CaO-C Catalyst from Co-Pyrolysis of Straw and Polyethylene. <i>Catalysts</i> , 2022, 12, 496.	1.6	6
832	Trends in Biodiesel Production from Algae and Animal Fat Wastes: Challenges and Prospects. <i>Clean Energy Production Technologies</i> , 2022, , 255-278.	0.3	1
833	Biochar from microalgae. , 2022, , 613-637.		0
834	Industrial hemp by-product valorization. , 2022, , 301-340.		1
836	Pyrolysis Mechanism of Wheat Straw Based on ReaxFF Molecular Dynamics Simulations. <i>ACS Omega</i> , 2022, 7, 21075-21085.	1.6	5
837	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.	2.9	7
838	A review of pyrolysis technologies and feedstock: A blending approach for plastic and biomass towards optimum biochar yield. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112715.	8.2	127
839	Bioenergy and biofuel production from biomass using thermochemical conversions technologies—a review. <i>AIMS Energy</i> , 2022, 10, 585-647.	1.1	12
840	Kinetic Study for Thermocatalytic Degradation of Waste Mixed Cloth Over Carbon-Based Solid Acids. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
842	Recent advances in biochar-based adsorbents for CO <sub>2</sub> capture. Carbon Capture Science & Technology, 2022, 4, 100059.	4.9	48
843	The characteristics of oil from plastic cups using various rice husk mass as fuel on integration prototype device of organic-inorganic waste. IOP Conference Series: Earth and Environmental Science, 2022, 977, 012070.	0.2	0
844	Prediction carbonization yields and the sensitivity analyses using deep learning neural networks and support vector machines. International Journal of Environmental Science and Technology, 2023, 20, 5071-5080.	1.8	5
845	Efficiently and directly produce triacetyl glycerol from oils and fats over mesoporous polymeric solid acid catalysts. Renewable Energy, 2022, 197, 432-442.	4.3	1
846	An overview on thermochemical conversion and potential evaluation of biofuels derived from agricultural wastes. Energy Nexus, 2022, 7, 100125.	3.3	33
847	New insights on the adsorption of CI-Reactive Red 141 dye using activated carbon prepared from the ZnCl <sub>2</sub> -treated waste cotton fibers: Statistical physics, DFT, COSMO-RS, and AIM studies. Journal of Molecular Liquids, 2022, 364, 119956.	2.3	21
848	Pyrolysis of citrus wastes for the simultaneous production of adsorbents for Cu(II), H <sub>2</sub> , and d-limonene. Waste Management, 2022, 152, 17-29.	3.7	3
849	Kinetic study for thermocatalytic degradation of waste mixed cloth over antibiotic residue derived carbon-based solid acids. Fuel, 2023, 331, 125797.	3.4	6
850	Modelling and simulation of a residual lignocellulosic biomass pyrolysis pilot plant. Computer Aided Chemical Engineering, 2022, , 547-552.	0.3	0
851	Microalgae in Wastewater Treatment and Biofuel Production: Recent Advances, Challenges, and Future Prospects. , 2022, , 237-271.		3
852	Recent Advances in Fast Pyrolysis and Oil Upgradation. Clean Energy Production Technologies, 2022, , 297-344.	0.3	1
853	Recent advances in the production of renewable biofuels using microalgae. , 2022, , 173-187.		1
854	Panoramic View about Microalgae Biomass as Waste-to-Energy: A Biorefinery Concept. , 2022, , 417-462.		0
855	Aquatic microalgal biofuel production. , 2023, , 333-356.		0
857	Co-pyrolysis Characteristics and Synergistic Interaction of Waste Polyethylene Terephthalate and Woody Biomass towards Bio-Oil Production. Journal of Chemistry, 2022, 2022, 1-9.	0.9	5
858	Phosphorus adsorption by functionalized biochar: a review. Environmental Chemistry Letters, 2023, 21, 497-524.	8.3	82
859	Opening the pathway towards a scalable electrochemical semi-hydrogenation of alkylnols<i>via</i> earth-abundant metal chalcogenides. Chemical Science, 2022, 13, 12461-12468.	3.7	8
860	Microwave-Assisted Chemically Modified Biochar for the Sequestration of Emerging Contaminants. , 2022, , 283-310.		1

#	ARTICLE	IF	CITATIONS
861	Investigation of plant biomass two-stage pyrolysis based on three major components: cellulose, hemicellulose, and lignin. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	6
862	The bio- and thermal lability of dissolved organic matter as revealed by high-resolution mass spectrometry and thermal chemical analyses. <i>Marine Chemistry</i> , 2023, 250, 104184.	0.9	3
863	A review on turning sewage sludge to value-added energy and materials via thermochemical conversion towards carbon neutrality. <i>Journal of Cleaner Production</i> , 2022, 379, 134657.	4.6	20
864	The effect of reaction condition on catalytic cracking of wheat straw pyrolysis volatiles over char-based Fe-Ni-Ca catalyst. <i>Energy</i> , 2023, 263, 125722.	4.5	8
865	Feasibility-to-applications of value-added products from biomass: Current trends, challenges, and prospects. <i>Chemical Engineering Journal</i> , 2023, 454, 140240.	6.6	30
866	Breakthroughs in Key Technologies and Prospects of the Biomass Industry. <i>Journal of Engineering Studies</i> , 2012, 04, 237-244.	0.0	2
867	Biofuels From Bio-Waste and Biomass. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2022, , 75-118.	0.3	0
868	Aviation Biofuels: Conversion Routes and Challenges. , 2023, , 33-85.		3
869	Various biomass pyrolysis conditions influence the porosity and pore size distribution of biochar. <i>Energy</i> , 2023, 263, 126128.	4.5	41
870	Valorization of lignocellulosic rice husk producing biosilica and biofuels—a review. <i>JPhys Energy</i> , 2023, 5, 012003.	2.3	4
871	Biochar from Cassava Waste: A Paradigm Shift from Waste to Wealth. , 0, , .		1
872	Prediction of thermal degradation of biopolymers in biomass under pyrolysis atmosphere by means of machine learning. <i>Renewable Energy</i> , 2023, 204, 774-787.	4.3	4
873	THE ROLE OF MICROALGAE IN DIFFERENT BIOTECHNOLOGY APPLICATIONS. , 2023, 2022, 25.		2
874	Sustainable production and application of biochar for energy storage and conversion. , 2023, , 333-364.		1
875	Combustion chemistry of aromatic hydrocarbons. <i>Progress in Energy and Combustion Science</i> , 2023, 96, 101076.	15.8	23
876	Characteristic Evaluation of Different Carbonization Processes for Hydrochar, Torrefied Char, and Biochar Produced from Cattle Manure. <i>Energies</i> , 2023, 16, 3265.	1.6	2
877	Production and beneficial impact of biochar for environmental application: A review on types of feedstocks, chemical compositions, operating parameters, techno-economic study, and life cycle assessment. <i>Fuel</i> , 2023, 343, 127968.	3.4	30
878	Study of the pectin influence on bio-oil produced from sisal residue pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2023, 170, 105906.	2.6	2



#	ARTICLE	IF	CITATIONS
879	Cleaner Asphalt Production by Suppressing Emissions Using Phenolic Compounds. ACS Sustainable Chemistry and Engineering, 2023, 11, 2737-2751.	3.2	8
880	Syngas generation from different types of sewage sludge using microwave-assisted pyrolysis with silicon carbide as the absorbent. Heliyon, 2023, 9, e14165.	1.4	4
881	Development and Performance Evaluation of a Fixed Batch-type Pyrolysis Reactor for Bio-oil Production from Plastic Wastes. Journal of Engineering Advancements, 0, , 19-24.	0.7	0
886	Microalgae as a promising feedstock for biofuel production. , 2023, , 123-135.		0
887	Bioenergy derived from PABR sludge through hydrothermal liquefaction: Effects of temperature. AIP Conference Proceedings, 2023, , .	0.3	0
890	Editorial: Chemical reactions and catalysis for a sustainable future. Frontiers in Chemistry, 0, 11, .	1.8	4
893	Sustainable Energy via Thermochemical and Biochemical Conversion of Biomass Wastes for Biofuel Production. Energy, Environment, and Sustainability, 2023, , 245-306.	0.6	2
895	Role of catalysts in biofuel production through fast pyrolysis. , 2023, , 115-132.		0
897	Sustainable conversion of agricultural waste to energy and high-value chemicals. , 2023, , 103-142.		1
902	Techno-Economic Analysis and Life Cycle Assessment of Bio-Based Waste Materials for Biogas Production: An Indian Perspective. , 2023, , 729-748.		1
903	Production of Alternative Fuel from Lignocellulosic Kitchen Waste Through Pyrolysis. Clean Energy Production Technologies, 2023, , 257-287.	0.3	0
905	Conversion of waste tires into renewable fuel. , 2023, , 69-89.		0
910	Challenges and Opportunities of Agricultural Biomass as a Replacement for PCI Coal in the Ironmaking Blast Furnace: A Review. Journal of Sustainable Metallurgy, 2023, 9, 927-949.	1.1	0
915	Energy Crops Valorization: Current State and Missing Technologies. Waste and Biomass Valorization, 0, , .	1.8	0
916	Microalgal farming for biofuel production: Extraction, conversion, and characterization. , 2024, , 43-80.		0
917	Bioenergy with carbon capture and storage. , 2023, , 249-273.		0
918	Biofuel scale-up from waste source and strategies for cost optimization. , 2023, , 155-180.		0
919	ASPEN plus simulation and optimal operating conditions of pyrolysis process from oil palm biomass (OPB). AIP Conference Proceedings, 2023, , .	0.3	0

#	ARTICLE	IF	CITATIONS
920	Biofuels from microalgae: Production, processing, and extraction technologies. , 2024, , 145-163.		0
921	Marine Biomass. , 2023, , 1-21.		0
924	Waste and biomass valorization via its transformation into advanced materials for energy applications. , 2024, , 275-326.		0
927	Microwave-assisted Pyrolysis of Municipal Solid Wastes for Energy, Fuel, and Chemical Production. , 2023, , 169-189.		0
930	Cotton Stalks: Potential Biofuel Recourses for Sustainable Environment. , 2023, , 203-234.		0
933	Conversion of Bioenergy to Heat and Power. , 2023, , .		0
936	Conversion of Bioenergy Resources to Electricity. , 2023, , .		0
937	Green Chemicals From Municipal Solid Waste. , 2023, , .		0
944	Application of nanotechnology in hydrogen production from biomass: A critical review. Advanced Composites and Hybrid Materials, 2024, 7, .	9.9	2
946	Solar Pyrolysis: Igniting the Future of Sustainable Fuel Production. , 2024, , .		0
948	Overview of biodiesel production from liquid wastes. , 2024, , 251-281.		0
950	Enhancing the performance of wood-based bio-asphalt: strategies and innovations. Clean Technologies and Environmental Policy, 0, , .	2.1	0
958	The Potential of Agricultural Waste Chars as Low-Cost Adsorbents for Heavy Metal Removal From Water. Advances in Environmental Engineering and Green Technologies Book Series, 2024, , 244-270.	0.3	0