Wei-Hsin Chen

List of Publications by Year
in descending order

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454 papers	26,009 citations	4641 85 h-index	11030 137 g-index
460 all docs	460 docs citations	460 times ranked	15218 citing authors

#	Article	IF	Citations
1	A state-of-the-art review of biomass torrefaction, densification and applications. Renewable and Sustainable Energy Reviews, 2015, 44, 847-866.	8.2	887
2	Biorefineries in circular bioeconomy: A comprehensive review. Bioresource Technology, 2020, 299, 122585.	4.8	483
3	A study on torrefaction of various biomass materials and its impact on lignocellulosic structure simulated by a thermogravimetry. Energy, 2010, 35, 2580-2586.	4.5	465
4	Thermochemical conversion of microalgal biomass into biofuels: A review. Bioresource Technology, 2015, 184, 314-327.	4.8	451
5	Torrefaction and co-torrefaction characterization of hemicellulose, cellulose and lignin as well as torrefaction of some basic constituents in biomass. Energy, 2011, 36, 803-811.	4.5	442
6	Progress in biomass torrefaction: Principles, applications and challenges. Progress in Energy and Combustion Science, 2021, 82, 100887.	15.8	429
7	Catalytic thermochemical conversion of biomass for biofuel production: A comprehensive review. Renewable and Sustainable Energy Reviews, 2019, 113, 109266.	8.2	289
8	Sustainability of direct biodiesel synthesis from microalgae biomass: A critical review. Renewable and Sustainable Energy Reviews, 2019, 107, 59-74.	8.2	283
9	Recent developments on algal biochar production and characterization. Bioresource Technology, 2017, 246, 2-11.	4.8	281
10	Thermogravimetric analysis and kinetics of co-pyrolysis of raw/torrefied wood and coal blends. Applied Energy, 2013, 105, 57-65.	5.1	274
11	State of art review on conventional and advanced pyrolysis of macroalgae and microalgae for biochar, bio-oil and bio-syngas production. Energy Conversion and Management, 2020, 210, 112707.	4.4	272
12	Pyrolysis of high ash sewage sludge: Kinetics and thermodynamic analysis using Coats-Redfern method. Renewable Energy, 2019, 131, 854-860.	4.3	260
13	Impacts of COVID-19 pandemic on the global energy system and the shift progress to renewable energy: Opportunities, challenges, and policy implications. Energy Policy, 2021, 154, 112322.	4.2	260
14	Disruption of sugarcane bagasse lignocellulosic structure by means of dilute sulfuric acid pretreatment with microwave-assisted heating. Applied Energy, 2011, 88, 2726-2734.	5.1	258
15	Pyrolysis characteristics and kinetics of microalgae via thermogravimetric analysis (TGA): A state-of-the-art review. Bioresource Technology, 2017, 246, 88-100.	4.8	258
16	State of the art and prospective of lipase-catalyzed transesterification reaction for biodiesel production. Energy Conversion and Management, 2017, 141, 339-353.	4.4	246
17	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
18	Isothermal torrefaction kinetics of hemicellulose, cellulose, lignin and xylan using thermogravimetric analysis. Energy, 2011, 36, 6451-6460.	4.5	236

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19	Water gas shift reaction for hydrogen production and carbon dioxide capture: A review. Applied Energy, 2020, 258, 114078.	5.1	231
20	Investigation on the ignition and burnout temperatures of bamboo and sugarcane bagasse by thermogravimetric analysis. Applied Energy, 2015, 160, 49-57.	5.1	228
21	Sustainability of the four generations of biofuels â€“ A review. International Journal of Energy Research, 2020, 44, 9266-9282.	2.2	225
22	An evaluation on improvement of pulverized biomass property for solid fuel through torrefaction. Applied Energy, 2011, 88, 3636-3644.	5.1	224
23	Optimization of biodiesel production by microwave irradiation-assisted transesterification for waste cooking oil-Calophyllum inophyllum oil via response surface methodology. Energy Conversion and Management, 2018, 158, 400-415.	4.4	222
24	Recent advances in lignocellulosic biomass for biofuels and value-added bioproducts - A critical review. Bioresource Technology, 2022, 344, 126195.	4.8	222
25	Thermal pretreatment of wood (Lauan) block by torrefaction and its influence on the properties of the biomass. Energy, 2011, 36, 3012-3021.	4.5	218
26	Evaluation of the engine performance and exhaust emissions of biodiesel-bioethanol-diesel blends using kernel-based extreme learning machine. Energy, 2018, 159, 1075-1087.	4.5	217
27	Recent advances in downstream processing of microalgae lipid recovery for biofuel production. Bioresource Technology, 2020, 304, 122996.	4.8	217
28	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. Green Chemistry, 2017, 19, 44-67.	4.6	216
29	An experimental analysis on property and structure variations of agricultural wastes undergoing torrefaction. Applied Energy, 2012, 100, 318-325.	5.1	206
30	Torrefaction, pyrolysis and two-stage thermodegradation of hemicellulose, cellulose and lignin. Fuel, 2019, 258, 116168.	3.4	201
31	Hydrothermal carbonization of sugarcane bagasse via wet torrefaction in association with microwave heating. Bioresource Technology, 2012, 118, 195-203.	4.8	196
32	Recent advances in the pretreatment of microalgal and lignocellulosic biomass: A comprehensive review. Bioresource Technology, 2020, 298, 122476.	4.8	195
33	Sustainable biofuel and bioenergy production from biomass waste residues using microwave-assisted heating: A comprehensive review. Chemical Engineering Journal, 2021, 403, 126233.	6.6	192
34	Torrefaction and low temperature carbonization of oil palm fiber and eucalyptus in nitrogen and air atmospheres. Bioresource Technology, 2012, 123, 98-105.	4.8	190
35	Hydrolysis characteristics of sugarcane bagasse pretreated by dilute acid solution in a microwave irradiation environment. Applied Energy, 2012, 93, 237-244.	5.1	179
36	A comparison of gasification phenomena among raw biomass, torrefied biomass and coal in an entrained-flow reactor. Applied Energy, 2013, 112, 421-430.	5.1	176

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37	Torrefaction performance and energy usage of biomass wastes and their correlations with torrefaction severity index. Applied Energy, 2018, 220, 598-604.	5.1	175
38	Modeling and simulation for the design of thermal-concentrated solar thermoelectric generator. Energy, 2014, 64, 287-297.	4.5	171
39	Design of heat sink for improving the performance of thermoelectric generator using two-stage optimization. Energy, 2012, 39, 236-245.	4.5	170
40	Catalytic effects of potassium on biomass pyrolysis, combustion and torrefaction. Applied Energy, 2019, 235, 346-355.	5.1	170
41	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. Environmental Pollution, 2021, 272, 115986.	3.7	165
42	A comprehensive review of hydrogen production from methanol thermochemical conversion for sustainability. Energy, 2021, 217, 119384.	4.5	163
43	Gasification performances of raw and torrefied biomass in a downdraft fixed bed gasifier using thermodynamic analysis. Fuel, 2014, 117, 1231-1241.	3.4	161
44	Microalgal biosorption of heavy metals: A comprehensive bibliometric review. Journal of Hazardous Materials, 2021, 402, 123431.	6.5	151
45	Impact of torrefaction on the composition, structure and reactivity of a microalga residue. Applied Energy, 2016, 181, 110-119.	5.1	149
46	Non-oxidative and oxidative torrefaction characterization and SEM observations of fibrous and ligneous biomass. Applied Energy, 2014, 114, 104-113.	5.1	145
47	Microalgae from wastewater treatment to biochar â€“ Feedstock preparation and conversion technologies. Energy Conversion and Management, 2017, 150, 1-13.	4.4	144
48	Pretreatment of biomass by torrefaction and carbonization for coal blend used in pulverized coal injection. Bioresource Technology, 2014, 161, 333-339.	4.8	139
49	Experimental study on thermoelectric modules for power generation at various operating conditions. Energy, 2012, 45, 874-881.	4.5	137
50	A numerical study on the performance of miniature thermoelectric cooler affected by Thomson effect. Applied Energy, 2012, 89, 464-473.	5.1	135
51	Thermal decomposition dynamics and severity of microalgae residues in torrefaction. Bioresource Technology, 2014, 169, 258-264.	4.8	135
52	Overview: Comparison of pretreatment technologies and fermentation processes of bioethanol from microalgae. Energy Conversion and Management, 2018, 173, 81-94.	4.4	134
53	Pyrolysis: An effective technique for degradation of COVID-19 medical wastes. Chemosphere, 2021, 275, 130092.	4.2	134
54	Torrefied biomasses in a drop tube furnace to evaluate their utility in blast furnaces. Bioresource Technology, 2012, 111, 433-438.	4.8	130

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55	Modeling and simulation of hydrogen generation from high-temperature and low-temperature water gas shift reactions. International Journal of Hydrogen Energy, 2008, 33, 6644-6656.	3.8	127
56	Torrefaction of microalgal biochar as potential coal fuel and application as bio-adsorbent. Energy Conversion and Management, 2018, 165, 152-162.	4.4	125
57	Removal of methylene blue from wastewater using ternary nanocomposite aerogel systems: Carboxymethyl cellulose grafted by polyacrylic acid and decorated with graphene oxide. Journal of Hazardous Materials, 2022, 421, 126752.	6.5	125
58	Performance investigation and design optimization of a thermoelectric generator applied in automobile exhaust waste heat recovery. Energy Conversion and Management, 2016, 120, 71-80.	4.4	124
59	Thermodynamic analysis of hydrogen production from methane via autothermal reforming and partial oxidation followed by water gas shift reaction. International Journal of Hydrogen Energy, 2010, 35, 11787-11797.	3.8	122
60	Biomass torrefaction characteristics in inert and oxidative atmospheres at various superficial velocities. Bioresource Technology, 2013, 146, 152-160.	4.8	119
61	A comprehensive study on pyrolysis kinetics of microalgal biomass. Energy Conversion and Management, 2017, 131, 109-116.	4.4	116
62	Power output analysis and optimization of two straight-bladed vertical-axis wind turbines. Applied Energy, 2017, 185, 223-232.	5.1	115
63	Assessment of energy performance and air pollutant emissions in a diesel engine generator fueled with water-containing ethanolâ€“biodieselâ€“diesel blend of fuels. Energy, 2011, 36, 5591-5599.	4.5	114
64	A comprehensive review of life cycle assessment (LCA) of microalgal and lignocellulosic bioenergy products from thermochemical processes. Bioresource Technology, 2019, 291, 121837.	4.8	113
65	Hygroscopic transformation of woody biomass torrefaction for carbon storage. Applied Energy, 2018, 231, 768-776.	5.1	111
66	One-step synthesis of dimethyl ether from the gas mixture containing CO2 with high space velocity. Applied Energy, 2012, 98, 92-101.	5.1	110
67	Isothermal and non-isothermal torrefaction characteristics and kinetics of microalga Scenedesmus obliquus CNW-N. Bioresource Technology, 2014, 155, 245-251.	4.8	109
68	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. Renewable and Sustainable Energy Reviews, 2022, 154, 111852.	8.2	107
69	Wet torrefaction of microalga Chlorella vulgaris ESP-31 with microwave-assisted heating. Energy Conversion and Management, 2017, 141, 163-170.	4.4	103
70	Liquid hot water as sustainable biomass pretreatment technique for bioenergy production: A review. Bioresource Technology, 2022, 344, 126207.	4.8	103
71	Pulverized coal burnout in blast furnace simulated by a drop tube furnace. Energy, 2010, 35, 576-581.	4.5	101
72	Torrefaction operation and optimization of microalga residue for energy densification and utilization. Applied Energy, 2015, 154, 622-630.	5.1	101

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73	Product characteristics from the torrefaction of oil palm fiber pellets in inert and oxidative atmospheres. Bioresource Technology, 2016, 199, 367-374.	4.8	101
74	Thermal degradation of carbohydrates, proteins and lipids in microalgae analyzed by evolutionary computation. Energy Conversion and Management, 2018, 160, 209-219.	4.4	101
75	Characterization of solid and liquid products from bamboo torrefaction. Applied Energy, 2015, 160, 829-835.	5.1	100
76	Pyrolysis of microalgae residues â€“ A kinetic study. Bioresource Technology, 2016, 199, 362-366.	4.8	99
77	Predictions of biochar yield and elemental composition during torrefaction of forest residues. Bioresource Technology, 2016, 215, 239-246.	4.8	98
78	Renewable aviation fuel by advanced hydroprocessing of biomass: Challenges and perspective. Energy Conversion and Management, 2019, 199, 112015.	4.4	98
79	An evaluation of hydrogen production from the perspective of using blast furnace gas and coke oven gas as feedstocks. International Journal of Hydrogen Energy, 2011, 36, 11727-11737.	3.8	97
80	Nanomaterials Utilization in Biomass for Biofuel and Bioenergy Production. Energies, 2020, 13, 892.	1.6	97
81	Impact of dilute acid pretreatment on the structure of bagasse for bioethanol production. International Journal of Energy Research, 2010, 34, 265-274.	2.2	95
82	Oxidative torrefaction of biomass nutshells: Evaluations of energy efficiency as well as biochar transportation and storage. Applied Energy, 2019, 235, 428-441.	5.1	93
83	A comprehensive analysis of food waste derived liquefaction bio-oil properties for industrial application. Applied Energy, 2019, 237, 283-291.	5.1	92
84	An evaluation on rice husks and pulverized coal blends using a drop tube furnace and a thermogravimetric analyzer for application to a blast furnace. Energy, 2009, 34, 1458-1466.	4.5	91
85	Effect of torrefaction pretreatment on the pyrolysis of rubber wood sawdust analyzed by Py-GC/MS. Bioresource Technology, 2018, 259, 469-473.	4.8	91
86	A review of synthesis and morphology of <scp>SrTiO</scp> ₃ for energy and other applications. International Journal of Energy Research, 2019, 43, 5151-5174.	2.2	91
87	Emulsification analysis of bio-oil and diesel under various combinations of emulsifiers. Applied Energy, 2016, 178, 746-757.	5.1	90
88	Variation of lignocellulosic biomass structure from torrefaction: A critical review. Renewable and Sustainable Energy Reviews, 2021, 152, 111698.	8.2	86
89	Biomass-derived biochar: From production to application in removing heavy metal-contaminated water. Chemical Engineering Research and Design, 2022, 160, 704-733.	2.7	86
90	Performance optimization of thermoelectric generators designed by multi-objective genetic algorithm. Applied Energy, 2018, 209, 211-223.	5.1	85

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91	A critical review on the principles, applications, and challenges of waste-to-hydrogen technologies. Renewable and Sustainable Energy Reviews, 2020, 134, 110365.	8.2	83
92	Performance analysis and optimum operation of a thermoelectric generator by Taguchi method. Applied Energy, 2015, 158, 44-54.	5.1	82
93	Chemical recycling of plastic waste via thermocatalytic routes. Journal of Cleaner Production, 2021, 321, 128989.	4.6	81
94	An experimental study on carbon monoxide conversion and hydrogen generation from water gas shift reaction. Energy Conversion and Management, 2008, 49, 2801-2808.	4.4	80
95	Performances of pulverized coal injection in blowpipe and tuyere at various operational conditions. Energy Conversion and Management, 2007, 48, 2069-2076.	4.4	78
96	Enhanced lignin extraction and optimisation from oil palm biomass using neural network modelling. Fuel, 2021, 293, 120485.	3.4	78
97	Numerical investigation on performance of coal gasification under various injection patterns in an entrained flow gasifier. Applied Energy, 2012, 100, 218-228.	5.1	77
98	Independent parallel pyrolysis kinetics of cellulose, hemicelluloses and lignin at various heating rates analyzed by evolutionary computation. Energy Conversion and Management, 2020, 221, 113165.	4.4	77
99	An energy analysis of torrefaction for upgrading microalga residue as a solid fuel. Bioresource Technology, 2015, 185, 285-293.	4.8	76
100	Determination of rated wind speed for maximum annual energy production of variable speed wind turbines. Applied Energy, 2017, 205, 781-789.	5.1	75
101	A new design of solar thermoelectric generator with combination of segmented materials and asymmetrical legs. Energy Conversion and Management, 2018, 175, 11-20.	4.4	75
102	Characterization of biomass waste torrefaction under conventional and microwave heating. Bioresource Technology, 2018, 264, 7-16.	4.8	75
103	Overview on catalytic deoxygenation for biofuel synthesis using metal oxide supported catalysts. Renewable and Sustainable Energy Reviews, 2019, 112, 834-852.	8.2	75
104	A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry. Journal of Hazardous Materials, 2020, 400, 123156.	6.5	75
105	Numerical prediction and practical improvement of pulverized coal combustion in blast furnace. International Communications in Heat and Mass Transfer, 2006, 33, 327-334.	2.9	74
106	Analysis on energy consumption and performance of reheating furnaces in a hot strip mill. International Communications in Heat and Mass Transfer, 2005, 32, 695-706.	2.9	72
107	Biochar production from microalgae cultivation through pyrolysis as a sustainable carbon sequestration and biorefinery approach. Clean Technologies and Environmental Policy, 2018, 20, 2047-2055.	2.1	69
108	Current status of biohydrogen production from lignocellulosic biomass, technical challenges and commercial potential through pyrolysis process. Energy, 2021, 226, 120433.	4.5	67

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109	Power output and efficiency of a thermoelectric generator under temperature control. Energy Conversion and Management, 2016, 127, 404-415.	4.4	65
110	Assessment of agro-industrial residues for bioenergy potential by investigating thermo-kinetic behavior in a slow pyrolysis process. Fuel, 2020, 278, 118259.	3.4	65
111	Pretreatment, modification and applications of sewage sludge-derived biochar for resource recovery-A review. Chemosphere, 2022, 287, 131969.	4.2	65
112	Hydrogen generation from a catalytic water gas shift reaction under microwave irradiation. International Journal of Hydrogen Energy, 2008, 33, 4789-4797.	3.8	64
113	Hydrogen production from steam reforming of coke oven gas and its utility for indirect reduction of iron oxides in blast furnace. International Journal of Hydrogen Energy, 2012, 37, 11748-11758.	3.8	64
114	Carbon dioxide capture by single droplet using Selexol, Rectisol and water as absorbents: A theoretical approach. Applied Energy, 2013, 111, 731-741.	5.1	63
115	Synthesis of renewable heterogeneous acid catalyst from oil palm empty fruit bunch for glycerol-free biodiesel production. Science of the Total Environment, 2020, 727, 138534.	3.9	63
116	Microplastic degradation as a sustainable concurrent approach for producing biofuel and obliterating hazardous environmental effects: A state-of-the-art review. Journal of Hazardous Materials, 2021, 418, 126381.	6.5	63
117	Biochar production via pyrolysis of citrus peel fruit waste as a potential usage as solid biofuel. Chemosphere, 2022, 294, 133671.	4.2	63
118	Characteristics of products from the pyrolysis of oil palm fiber and its pellets in nitrogen and carbon dioxide atmospheres. Energy, 2016, 94, 569-578.	4.5	62
119	Effect of microwave double absorption on hydrogen generation from methanol steam reforming. International Journal of Hydrogen Energy, 2010, 35, 1987-1997.	3.8	61
120	Comparison and characterization of property variation of microalgal biomass with non-oxidative and oxidative torrefaction. Fuel, 2019, 246, 375-385.	3.4	61
121	Burning characteristics of pulverized coal within blast furnace raceway at various injection operations and ways of oxygen enrichment. Fuel, 2015, 143, 98-106.	3.4	60
122	Volatile release and particle formation characteristics of injected pulverized coal in blast furnaces. Energy Conversion and Management, 2007, 48, 2025-2033.	4.4	59
123	Production of microalgal biochar and reducing sugar using wet torrefaction with microwave-assisted heating and acid hydrolysis pretreatment. Renewable Energy, 2020, 156, 349-360.	4.3	59
124	Thermodynamic approach and comparison of two-step and single step DME (dimethyl ether) syntheses with carbon dioxide utilization. Energy, 2016, 109, 326-340.	4.5	58
125	Surface grafting techniques on the improvement of membrane bioreactor: State-of-the-art advances. Bioresource Technology, 2018, 269, 489-502.	4.8	58
126	Utilization of microalgae for bio-jet fuel production in the aviation sector: Challenges and perspective. Renewable and Sustainable Energy Reviews, 2021, 149, 111396.	8.2	58

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127	Torrefaction performance prediction approached by torrefaction severity factor. Fuel, 2019, 251, 126-135.	3.4	57
128	Microalgal Torrefaction for Solid Biofuel Production. Trends in Biotechnology, 2020, 38, 1023-1033.	4.9	57
129	Taguchi approach for co-gasification optimization of torrefied biomass and coal. Bioresource Technology, 2013, 144, 615-622.	4.8	56
130	Pyrolysis of sewage sludge for sustainable biofuels and value-added biochar production. Journal of Environmental Management, 2021, 298, 113450.	3.8	56
131	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. ACS Sustainable Chemistry and Engineering, 2022, 10, 3079-3115.	3.2	56
132	Development of bio-based lubricant from modified desert date oil (balanites aegyptiaca) with copper nanoparticles addition and their tribological analysis. Fuel, 2020, 259, 116259.	3.4	55
133	Bioethanol production from acid pretreated microalgal hydrolysate using microwave-assisted heating wet torrefaction. Fuel, 2020, 279, 118435.	3.4	55
134	Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. Renewable and Sustainable Energy Reviews, 2021, 151, 111645.	8.2	55
135	Biofuel production from microalgae: challenges and chances. Phytochemistry Reviews, 2023, 22, 1089-1126.	3.1	55
136	Sugarcane Bagasse Pyrolysis in a Carbon Dioxide Atmosphere with Conventional and Microwave-Assisted Heating. Frontiers in Energy Research, 2015, 3, .	1.2	54
137	Microwave-assisted wet torrefaction of microalgae under various acids for coproduction of biochar and sugar. Journal of Cleaner Production, 2020, 253, 119944.	4.6	54
138	Co-pyrolysis of microalgae and other biomass wastes for the production of high-quality bio-oil: Progress and prospective. Bioresource Technology, 2022, 344, 126096.	4.8	53
139	Thermal behavior and hydrogen production of methanol steam reforming and autothermal reforming with spiral preheating. International Journal of Hydrogen Energy, 2011, 36, 3397-3408.	3.8	52
140	Ultrasonic assisted oil extraction and biodiesel synthesis of Spent Coffee Ground. Fuel, 2020, 261, 116121.	3.4	52
141	A Feed-Forward Back Propagation Neural Network Approach to Predict the Life Condition of Crude Oil Pipeline. Processes, 2020, 8, 661.	1.3	52
142	Organic Carbonate Production Utilizing Crude Glycerol Derived as By-Product of Biodiesel Production: A Review. Energies, 2020, 13, 1483.	1.6	52
143	Reuniting the Biogeochemistry of Algae for a Low-Carbon Circular Bioeconomy. Trends in Plant Science, 2021, 26, 729-740.	4.3	52
144	Thermal degradation and compositional changes of wood treated in a semi-industrial scale reactor in vacuum. Journal of Analytical and Applied Pyrolysis, 2018, 130, 8-18.	2.6	51

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145	A computational fluid dynamics (CFD) approach of thermoelectric generator (TEG) for power generation. Applied Thermal Engineering, 2020, 173, 115203.	3.0	51
146	Geometric effect on cooling power and performance of an integrated thermoelectric generation-cooling system. Energy Conversion and Management, 2014, 87, 566-575.	4.4	50
147	Dilute sulfuric acid hydrolysis of red macroalgae Eucheuma denticulatum with microwave-assisted heating for biochar production and sugar recovery. Bioresource Technology, 2017, 246, 20-27.	4.8	50
148	Hydrogen and synthesis gas production from activated carbon and steam via reusing carbon dioxide. Applied Energy, 2013, 101, 551-559.	5.1	49
149	Hydrogen production from methanol partial oxidation over Pt/Al2O3 catalyst with low Pt content. Energy, 2015, 88, 399-407.	4.5	49
150	Biofuel from Microalgae: Sustainable Pathways. Sustainability, 2020, 12, 8009.	1.6	49
151	Efficiency improvement of a vertical-axis wind turbine using a deflector optimized by Taguchi approach with modified additive method. Energy Conversion and Management, 2021, 245, 114609.	4.4	49
152	Unsteady absorption of sulfur dioxide by an atmospheric water droplet with internal circulation. Atmospheric Environment, 2001, 35, 2375-2393.	1.9	48
153	Thermal characterization of oil palm fiber and eucalyptus in torrefaction. Energy, 2014, 71, 40-48.	4.5	48
154	Thermodynamic analysis of the partial oxidation of coke oven gas for indirect reduction of iron oxides in a blast furnace. Energy, 2015, 86, 758-771.	4.5	48
155	Tailored hydrotalcite-based Mg-Ni-Al catalyst for hydrogen production via methane decomposition: Effect of nickel concentration and spinel-like structures. International Journal of Hydrogen Energy, 2019, 44, 14424-14433.	3.8	48
156	A Review on Dataâ€Ðriven Learning Approaches for Fault Detection and Diagnosis in Chemical Processes. ChemBioEng Reviews, 2021, 8, 239-259.	2.6	48
157	Applying microwave vacuum pyrolysis to design moisture retention and pH neutralizing palm kernel shell biochar for mushroom production. Bioresource Technology, 2020, 312, 123572.	4.8	48
158	Cultivation of microalgae Chlorella sp. in municipal sewage for biofuel production and utilization of biochar derived from residue for the conversion of hematite iron ore (Fe2O3) to iron (Fe) â€“ Integrated algal biorefinery. Energy, 2019, 189, 116128.	4.5	47
159	Iron oxide reduction by graphite and torrefied biomass analyzed by TG-FTIR for mitigating CO2 emissions. Energy, 2019, 180, 968-977.	4.5	47
160	Smart sustainable biorefineries for lignocellulosic biomass. Bioresource Technology, 2022, 344, 126215.	4.8	47
161	Partial oxidation of methanol over a Pt/Al2O3 catalyst enhanced by sprays. Energy, 2016, 106, 1-12.	4.5	46
162	Torrefaction of de-oiled Jatropha seed kernel biomass for solid fuel production. Energy, 2019, 170, 367-374.	4.5	46

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163	Two-step thermodegradation kinetics of cellulose, hemicelluloses, and lignin under isothermal torrefaction analyzed by particle swarm optimization. Energy Conversion and Management, 2021, 238, 114116.	4.4	46
164	Integrating Taguchi method and artificial neural network for predicting and maximizing biofuel production via torrefaction and pyrolysis. Bioresource Technology, 2022, 343, 126140.	4.8	46
165	Characterization of water gas shift reaction in association with carbon dioxide sequestration. Journal of Power Sources, 2007, 172, 368-375.	4.0	45
166	An experimental study on single-step dimethyl ether (DME) synthesis from hydrogen and carbon monoxide under various catalysts. International Journal of Hydrogen Energy, 2015, 40, 13583-13593.	3.8	45
167	Optimization of food waste hydrothermal liquefaction by a two-step process in association with a double analysis. Energy, 2020, 199, 117438.	4.5	45
168	Product Yields and Characteristics of Corncob Waste under Various Torrefaction Atmospheres. Energies, 2014, 7, 13-27.	1.6	44
169	Hydrogen production and carbon dioxide enrichment from ethanol steam reforming followed by water gas shift reaction. Journal of Cleaner Production, 2017, 162, 1430-1441.	4.6	44
170	Fast hydropyrolysis of biomass Conversion: A comparative review. Bioresource Technology, 2021, 342, 126067.	4.8	44
171	Extinction of counterflow diffusion flames with radiative heat loss and nonunity Lewis numbers. Combustion and Flame, 2007, 148, 100-116.	2.8	43
172	Co-gasification performance of coal and petroleum coke blends in a pilot-scale pressurized entrained-flow gasifier. International Journal of Energy Research, 2012, 36, 499-508.	2.2	43
173	Geometry design for maximizing output power of segmented skutterudite thermoelectric generator by evolutionary computation. Applied Energy, 2020, 274, 115296.	5.1	43
174	Performance evaluation and improvement of thermoelectric generators (TEG): Fin installation and compromise optimization. Energy Conversion and Management, 2021, 250, 114858.	4.4	43
175	Microalgae Oil: Algae Cultivation and Harvest, Algae Residue Torrefaction and Diesel Engine Emissions Tests. Aerosol and Air Quality Research, 2015, 15, 81-98.	0.9	42
176	Effective utilization of tobacco (Nicotiana Tabaccum) for biodiesel production and its application on diesel engine using response surface methodology approach. Fuel, 2020, 273, 117793.	3.4	42
177	Hydrogen production from water gas shift reaction in a high gravity (Higee) environment using a rotating packed bed. International Journal of Hydrogen Energy, 2010, 35, 10179-10189.	3.8	41
178	Performance of a thermoelectric generator intensified by temperature oscillation. Energy, 2017, 133, 257-269.	4.5	41
179	A Comprehensive Review on Thermal Coconversion of Biomass, Sludge, Coal, and Their Blends Using Thermogravimetric Analysis. Journal of Chemistry, 2020, 2020, 1-23.	0.9	41
180	Transient dynamic of hydrogen permeation through a palladium membrane. International Journal of Hydrogen Energy, 2009, 34, 2440-2448.	3.8	40

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