

# Abdulaziz Atabani

## List of Publications by Year in descending order

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300  
papers

20,403  
citations

10070

75  
h-index

16791

127  
g-index

308  
all docs

308  
docs citations

308  
times ranked

18059  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermochemical conversion routes of hydrogen production from organic biomass: processes, challenges and limitations. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8509-8534.	2.9	16
2	Influence of dilute acid, alkali and hydrothermal pretreatments on methane improvement from date palm waste –Takar boucht–cultivar. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 2067-2077.	2.9	7
3	Emerging potential of spent coffee ground valorization for fuel pellet production in a biorefinery. <i>Environment, Development and Sustainability</i> , 2023, 25, 7585-7623.	2.7	13
4	Valorization of spent coffee grounds for biodiesel production: blending with higher alcohols, FT-IR, TGA, DSC, and NMR characterizations. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 577-596.	2.9	15
5	Lignocellulosic biomass-based pyrolysis: A comprehensive review. <i>Chemosphere</i> , 2022, 286, 131824.	4.2	129
6	Impact of novel deflocculant ZnO/Chitosan nanocomposite film in disperser pretreatment enhancing energy efficient anaerobic digestion: Parameter assessment and cost exploration. <i>Chemosphere</i> , 2022, 286, 131835.	4.2	6
7	A state-of-the-art review on spent coffee ground (SCG) pyrolysis for future biorefinery. <i>Chemosphere</i> , 2022, 286, 131730.	4.2	39
8	Macroalgae-derived biohydrogen production: biorefinery and circular bioeconomy. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 769-791.	2.9	37
9	Greener and sustainable production of bioethylene from bioethanol: current status, opportunities and perspectives. <i>Reviews in Chemical Engineering</i> , 2022, 38, 185-207.	2.3	49
10	Nanotechnology-assisted production of value-added biopotent energy-yielding products from lignocellulosic biomass refinery – A review. <i>Bioresource Technology</i> , 2022, 344, 126171.	4.8	23
11	Integrated biorefineries, circular bio-economy, and valorization of organic waste streams with respect to bio-products. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 565-565.	2.9	28
12	Recent advances in lignocellulosic biomass for biofuels and value-added bioproducts - A critical review. <i>Bioresource Technology</i> , 2022, 344, 126195.	4.8	222
13	Algal-based system for removal of emerging pollutants from wastewater: A review. <i>Bioresource Technology</i> , 2022, 344, 126245.	4.8	68
14	Process optimisation for production and recovery of succinic acid using xylose-rich hydrolysates by <i>Actinobacillus succinogenes</i> . <i>Bioresource Technology</i> , 2022, 344, 126224.	4.8	26
15	Macroalgae ( <i>Ulva reticulata</i> ) derived biohydrogen recovery through mild surfactant induced energy and cost efficient dispersion pretreatment technology. <i>Chemosphere</i> , 2022, 288, 132463.	4.2	13
16	Closure to –Chromium Transport Modeling in Tannery Effluent from a Surface Water Body to Groundwater Regime: Case Study in Kodaganar Basin– by J. Colins Johnny, M. C. Sashikkumar, J. Rajesh Banu, and Gopalakrishnan Kumar. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2022, 26, .	1.2	0
17	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems. <i>Bioresource Technology</i> , 2022, 346, 126628.	4.8	20
18	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. <i>Journal of Biotechnology</i> , 2022, 345, 1-16.	1.9	34

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19	Comparative investigation of multi-walled carbon nanotube modified diesel fuel and biogas in dual fuel mode on combustion, performance, and emission characteristics. <i>Fuel</i> , 2022, 313, 123008.	3.4	12
20	Multi-Response Optimization of Surface Grinding Process Parameters of AISI 4140 Alloy Steel Using Response Surface Methodology and Desirability Function under Dry and Wet Conditions. <i>Coatings</i> , 2022, 12, 104.	1.2	9
21	Trends in dark biohydrogen production strategy and linkages with transition towards low carbon economy: An outlook, cost-effectiveness, bottlenecks and future scope. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15309-15332.	3.8	26
22	Recent biotechnological developments in reshaping the microalgal genome: A signal for green recovery in biorefinery practices. <i>Chemosphere</i> , 2022, 293, 133513.	4.2	14
23	Valorization of Wet Oily Petrochemical Sludge via Slow Pyrolysis: Thermo-Kinetics Assessment and Artificial Neural Network Modeling. <i>Frontiers in Energy Research</i> , 2022, 9, .	1.2	10
24	Nutraceutical productions from microalgal derived compounds via circular bioeconomy perspective. <i>Bioresource Technology</i> , 2022, 347, 126575.	4.8	5
25	Surfactant induced microwave disintegration for enhanced biohydrogen production from macroalgae biomass: Thermodynamics and energetics. <i>Bioresource Technology</i> , 2022, 350, 126904.	4.8	4
26	Progress in microalgal mediated bioremediation systems for the removal of antibiotics and pharmaceuticals from wastewater. <i>Science of the Total Environment</i> , 2022, 825, 153895.	3.9	49
27	Impacts of the harvesting process on microalgae fatty acid profiles and lipid yields: Implications for biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112410.	8.2	17
28	Measurement of organic and elemental carbon in the char deposits from the combustion of permitted and undesirable fuels in domestic boilers. <i>Fuel</i> , 2022, 319, 123749.	3.4	2
29	Recent developments in biorefining of macroalgae metabolites and their industrial applications - A circular economy approach. <i>Bioresource Technology</i> , 2022, 359, 127235.	4.8	12
30	Profitable disperser coupled surfactant pretreatment of aquatic phytomass for energy efficient solubilization and biomethanation: a study on lignin inhibition and its possible solutions. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3195-3207.	2.5	7
31	Effect of stirring speeds on biodiesel yield using an innovative oscillatory reactor and conventional STR (A comparative study). <i>Fuel</i> , 2022, 325, 124856.	3.4	5
32	Anaerobic digestate for polyhydroxyalkanoates (bioplastics precursors) production. , 2022, , 309-326.		1
33	Macroalgae and coal-based biochar as a sustainable bioresource reuse for treatment of textile wastewater. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1491-1506.	2.9	22
34	Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. <i>Energy and Environment</i> , 2021, 32, 1029-1058.	2.7	27
35	Shift of microbial community structure by substrate level in dynamic membrane bioreactor for biohydrogen production. <i>International Journal of Energy Research</i> , 2021, 45, 17408-17416.	2.2	12
36	Facile and low-cost production of Lantana camara stalk-derived porous carbon nanostructures with excellent supercapacitance and adsorption performance. <i>International Journal of Energy Research</i> , 2021, 45, 17440-17449.	2.2	9

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37	CO <sub>2</sub> separation by supported liquid membranes synthesized with natural deep eutectic solvents. <i>Environmental Science and Pollution Research</i> , 2021, 28, 33994-34008.	2.7	25
38	Wind speed pattern data and wind energy potential in Pakistan: current status, challenging platforms and innovative prospects. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34051-34073.	2.7	13
39	Comparative effect of silver nanoparticles (AgNPs) derived from actinomycetes and henna on biohydrogen production by <i>Clostridium beijerinckii</i> (KTCC1737). <i>International Journal of Energy Research</i> , 2021, 45, 17269-17278.	2.2	12
40	CO <sub>2</sub> from waste to resource by developing novel mixed matrix membranes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12397-12405.	2.7	6
41	Synthesis of biodiesel via pre-blending of feedstocks: an optimization by the polynomial curve fitting method. <i>Biofuels</i> , 2021, 12, 679-688.	1.4	5
42	Energy saving anammox technology-based nitrogen removal and bioenergy recovery from wastewater: Inhibition mechanisms, state-of-the-art control strategies, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110126.	8.2	89
43	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. <i>Science of the Total Environment</i> , 2021, 751, 141599.	3.9	177
44	Surfactant induced sonic fission: an effective strategy for biohydrogen recovery from sea grass <i>Springodiumisoetifolium</i> . <i>International Journal of Energy Research</i> , 2021, 45, 8296-8306.	2.2	7
45	Feasibility study of polyetherimide membrane for enrichment of carbon dioxide from synthetic biohydrogen mixture and subsequent utilization scenario using microalgae. <i>International Journal of Energy Research</i> , 2021, 45, 8327-8334.	2.2	3
46	Techno-economic assessment of various hydrogen production methods – A review. <i>Bioresource Technology</i> , 2021, 319, 124175.	4.8	249
47	Long-term nationwide assessment of polychlorinated dibenzo-p-dioxins/dibenzofurans and dioxin-like polychlorinated biphenyls ambient air concentrations for ten years in South Korea. <i>Chemosphere</i> , 2021, 263, 127903.	4.2	8
48	Effect of reaction conditions on the lifetime of SAPO-34 catalysts in methanol to olefins process – A review. <i>Fuel</i> , 2021, 283, 118851.	3.4	59
49	Gasification of municipal solid waste blends with biomass for energy production and resources recovery: Current status, hybrid technologies and innovative prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 136, 110375.	8.2	134
50	Catalytic hydrothermal liquefaction of biomass into bio-oils and other value-added products – A review. <i>Fuel</i> , 2021, 285, 119053.	3.4	95
51	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. <i>Fuel</i> , 2021, 285, 119117.	3.4	121
52	Trends and progress in AnMBR for domestic wastewater treatment and their impacts on process efficiency and membrane fouling. <i>Environmental Technology and Innovation</i> , 2021, 21, 101204.	3.0	35
53	Recent developments and strategies in genome engineering and integrated fermentation approaches for biobutanol production from microalgae. <i>Fuel</i> , 2021, 285, 119052.	3.4	49
54	Integrated biorefinery routes of biohydrogen: Possible utilization of acidogenic fermentative effluent. <i>Bioresource Technology</i> , 2021, 319, 124241.	4.8	46

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55	Current challenges and innovative developments in pretreatment of lignocellulosic residues for biofuel production: A review. <i>Fuel</i> , 2021, 287, 119670.	3.4	114
56	Trends in Biological Nutrient Removal for the Treatment of Low Strength Organic Wastewaters. <i>Current Pollution Reports</i> , 2021, 7, 1-30.	3.1	17
57	Techno-enviro assessment and ranking of Turkey for use of home-scale solar water heaters. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100948.	1.7	17
58	Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. <i>Bioresource Technology</i> , 2021, 322, 124470.	4.8	42
59	Biogas production from beverage factory wastewater in a mobile bioenergy station. <i>Chemosphere</i> , 2021, 264, 128564.	4.2	17
60	Comparative Evaluation of CO <sub>2</sub> Fixation of Microalgae Strains at Various CO <sub>2</sub> Aeration Conditions. <i>Waste and Biomass Valorization</i> , 2021, 12, 2999-3007.	1.8	10
61	Biotechnological valorization of algal biomass: an overview. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 131-141.	1.5	12
62	Food waste biorefinery: A case study for spent coffee grounds (SCGs) into bioactive compounds across the European Union. , 2021, , 459-473.		3
63	Ultrasonic induced mechanoacoustic effect on delignification of rice straw for cost effective biopretreatment and biomethane recovery. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1832-1844.	2.5	17
64	Enhancement of Mixing Performance of Two-Layer Crossing Micromixer through Surrogate-Based Optimization. <i>Micromachines</i> , 2021, 12, 211.	1.4	4
65	Molecular biology interventions for activity improvement and production of industrial enzymes. <i>Bioresource Technology</i> , 2021, 324, 124596.	4.8	22
66	Kinematic Measurements of Novel Chaotic Micromixers to Enhance Mixing Performances at Low Reynolds Numbers: Comparative Study. <i>Micromachines</i> , 2021, 12, 364.	1.4	6
67	Editorial preface of the special issue on "progress in alternative fuels and energies". <i>International Journal of Energy Research</i> , 2021, 45, 8123-8124.	2.2	0
68	Hazardous wastewater treatment by low-cost sorbent with in situ regeneration using hybrid solar energy-electrochemical system. <i>Water Environment Research</i> , 2021, 93, 1554-1561.	1.3	5
69	A review on the factors influencing biohydrogen production from lactate: The key to unlocking enhanced dark fermentative processes. <i>Bioresource Technology</i> , 2021, 324, 124595.	4.8	57
70	Electro-fermentation for biofuels and biochemicals production: Current status and future directions. <i>Bioresource Technology</i> , 2021, 323, 124598.	4.8	45
71	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. <i>Science of the Total Environment</i> , 2021, 765, 144429.	3.9	159
72	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. <i>Bioresource Technology</i> , 2021, 325, 124685.	4.8	138

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73	Impact of HHO gas enrichment and high purity biodiesel on the performance of a 315Âcc diesel engine. International Journal of Hydrogen Energy, 2021, 46, 19633-19644.	3.8	15
74	Recent advances in biopolymers production from biomass and waste (RABP-2020). Bioresource Technology, 2021, 328, 124879.	4.8	2
75	Tropical fruit wasteâ€derived mesoporous rockâ€like $\text{Fe}_2\text{O}_3/\text{C}$ composite fabricated with amphiphilic surfactantâ€templating approach showing massive potential for highâ€tech applications. International Journal of Energy Research, 2021, 45, 17417-17430.	2.2	7
76	A review on energy and cost effective phase separated pretreatment of biosolids. Water Research, 2021, 198, 117169.	5.3	16
77	Enhanced Methane Production from Anaerobic Co-Digestion of Wheat Straw Rice Straw and Sugarcane Bagasse: A Kinetic Analysis. Applied Sciences (Switzerland), 2021, 11, 6069.	1.3	10
78	A review on anaerobic digestion of energy and cost effective microalgae pretreatment for biogas production. Bioresource Technology, 2021, 332, 125055.	4.8	35
79	Recent developments on sewage sludge pyrolysis and its kinetics: Resources recovery, thermogravimetric platforms, and innovative prospects. Computers and Chemical Engineering, 2021, 150, 107325.	2.0	74
80	Renewable hydrogen production from biomass and wastes (ReBioH2-2020). Bioresource Technology, 2021, 331, 125024.	4.8	50
81	Bioelectrochemical system-mediated waste valorization. Systems Microbiology and Biomanufacturing, 2021, 1, 432-443.	1.5	16
82	Electronic waste generation, recycling and resource recovery: Technological perspectives and trends. Journal of Hazardous Materials, 2021, 416, 125664.	6.5	120
83	Management of microbial enzymes for biofuels and biogas production by using metagenomic and genome editing approaches. 3 Biotech, 2021, 11, 429.	1.1	3
84	Investigation of slow pyrolysis mechanism and kinetic modeling of Scenedesmus quadricauda biomass. Journal of Analytical and Applied Pyrolysis, 2021, 158, 105149.	2.6	20
85	Acid-based lignocellulosic biomass biorefinery for bioenergy production: Advantages, application constraints, and perspectives. Journal of Environmental Management, 2021, 296, 113194.	3.8	82
86	Mechanistic insights into promoted dewaterability, drying behaviors and methane-producing potential of waste activated sludge by Fe <sup>2+</sup> -activated persulfate oxidation. Journal of Environmental Management, 2021, 298, 113429.	3.8	8
87	Sustainable carbonaceous biochar adsorbents derived from agro-wastes and invasive plants for cation dye adsorption from water. Chemosphere, 2021, 282, 131009.	4.2	54
88	Biofuels and biorefineries: Development, application and future perspectives emphasizing the environmental and economic aspects. Journal of Environmental Management, 2021, 297, 113268.	3.8	66
89	Potential of microalgae as a sustainable feed ingredient for aquaculture. Journal of Biotechnology, 2021, 341, 1-20.	1.9	120
90	Dynamic membrane bioreactor for high rate continuous biohydrogen production from algal biomass. Bioresource Technology, 2021, 340, 125562.	4.8	37

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91	A dual functional material: Spirulina Platensis waste-supported Pd-Co catalyst as a novel promising supercapacitor electrode. Fuel, 2021, 304, 121334.	3.4	23
92	Co-digestion of vegetable peel with cow dung without external inoculum for biogas production: Experimental and a new modelling test in a batch mode. Fuel, 2021, 306, 121627.	3.4	15
93	A performance evaluation study of nano-biochar as a potential slow-release nano-fertilizer from wheat straw residue for sustainable agriculture. Chemosphere, 2021, 285, 131382.	4.2	46
94	Alkali activated persulfate mediated extracellular organic release on enzyme secreting bacterial pretreatment for efficient hydrogen production. Bioresource Technology, 2021, 341, 125810.	4.8	14
95	Human and ecological risk assessment of heavy metals in different particle sizes of road dust in Muscat, Oman. Environmental Science and Pollution Research, 2021, 28, 33980-33993.	2.7	22
96	A Critical Overview of the State-of-the-Art Methods for Biogas Purification and Utilization Processes. Sustainability, 2021, 13, 11515.	1.6	17
97	Effect of Solubilization on Acidification, Anaerobic Biodegradability, and Economic Feasibility via Ultrasonicâ€Zerovalent Ironâ€Acidic pH Pretreatment of Sludge. Energy & Fuels, 2021, 35, 16617-16628.	2.5	3
98	A Mini Review of Biochemical Conversion of Algal Biorefinery. Energy & Fuels, 2021, 35, 16995-17007.	2.5	16
99	A Review on Occurrence and Spread of Antibiotic Resistance in Wastewaters and in Wastewater Treatment Plants: Mechanisms and Perspectives. Frontiers in Microbiology, 2021, 12, 717809.	1.5	77
100	Spent coffee grounds based circular bioeconomy: Technoeconomic and commercialization aspects. Renewable and Sustainable Energy Reviews, 2021, 152, 111721.	8.2	17
101	A review on enzymes and pathways for manufacturing polyhydroxybutyrate from lignocellulosic materials. 3 Biotech, 2021, 11, 483.	1.1	3
102	Polyhydroxyalkanoates synthesis using acidogenic fermentative effluents. International Journal of Biological Macromolecules, 2021, 193, 2079-2092.	3.6	8
103	Optimization of the esterification process of crude jatropha oil (CJO) containing high levels of free fatty acids: a Malaysian case study. Biofuels, 2020, 11, 655-662.	1.4	9
104	Perspective of safflower ( <i>Carthamus tinctorius</i> ) as a potential biodiesel feedstock in Turkey: characterization, engine performance and emissions analyses of butanolâ€biodieselâ€diesel blends. Biofuels, 2020, 11, 715-731.	1.4	23
105	Biogas Production from Organic Waste: Recent Progress and Perspectives. Waste and Biomass Valorization, 2020, 11, 1019-1040.	1.8	141
106	Experimental investigation of effects on performance, emissions and combustion parameters of biodieselâ€dieselâ€butanol blends in a direct-injection CI engine. Biofuels, 2020, 11, 121-134.	1.4	30
107	Rhamnolipid induced deagglomeration of anaerobic granular biosolids for energetically feasible ultrasonic homogenization and profitable biohydrogen. International Journal of Hydrogen Energy, 2020, 45, 5890-5899.	3.8	27
108	Characterization of Hemp ( <i>Cannabis sativa</i> L.) Biodiesel Blends with Euro Diesel, Butanol and Diethyl Ether Using FT-IR, UVâ€Vis, TGA and DSC Techniques. Waste and Biomass Valorization, 2020, 11, 1097-1113.	1.8	26

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109	Evaluation, characterization, and engine performance of complementary fuel blends of butanolâ€“biodieselâ€“diesel from <i>Aleurites moluccanus</i> as potential alternative fuels for CI engines. <i>Energy and Environment</i> , 2020, 31, 755-784.	2.7	10
110	Synergistic solution of CO <sub>2</sub> capture by novel lanthanide-based MOF-76 yttrium nanocrystals in mixed-matrix membranes. <i>Energy and Environment</i> , 2020, 31, 692-712.	2.7	14
111	Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. <i>Bioresource Technology</i> , 2020, 298, 122378.	4.8	55
112	A compressive review on the effects of alcohols and nanoparticles as an oxygenated enhancer in compression ignition engine. <i>Energy Conversion and Management</i> , 2020, 203, 112244.	4.4	150
113	Comparative evaluation of biochemical methane potential of various types of Ugandan agricultural biomass following soaking aqueous ammonia pretreatment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17631-17641.	2.7	14
114	Valorization of solid waste biomass by inoculation for the enhanced yield of biogas. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 513-522.	2.1	54
115	A forecasting model approach of sustainable electricity management by developing adaptive neuro-fuzzy inference system. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17607-17618.	2.7	9
116	Biobutanol from lignocellulosic biomass: bioprocess strategies. , 2020, , 169-193.		13
117	Spectral, In Vitro Biological, Engine and Emission Performances of Biodiesel Production from <i>Chlorella protothecoides</i> : A Sustainable Renewable Energy Source. <i>Waste and Biomass Valorization</i> , 2020, 11, 5809-5819.	1.8	5
118	Various potential techniques to reduce the water footprint of microalgal biomass production for biofuelâ€“A review. <i>Science of the Total Environment</i> , 2020, 749, 142218.	3.9	40
119	Profitable biomethane production from delignified rice straw biomass: the effect of lignin, energy and economic analysis. <i>Green Chemistry</i> , 2020, 22, 8024-8035.	4.6	37
120	Spectral, thermoanalytical characterizations, properties, engine and emission performance of complementary biodiesel-diesel-pentanol/octanol blends. <i>Fuel</i> , 2020, 282, 118849.	3.4	24
121	Modeling Viscosity and Density of Ethanol-Diesel-Biodiesel Ternary Blends for Sustainable Environment. <i>Sustainability</i> , 2020, 12, 5186.	1.6	81
122	Recent developments on alternative fuels, energy and environment for sustainability. <i>Bioresource Technology</i> , 2020, 317, 124010.	4.8	50
123	<i>Piper longum</i> Extract-Mediated Green Synthesis of Porous Cu <sub>2</sub> O:Mo Microspheres and Their Superior Performance as Active Anode Material in Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14557-14567.	3.2	15
124	A state of the art review on biomass processing and conversion technologies to produce hydrogen and its recovery via membrane separation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15166-15195.	3.8	102
125	Synergistic Long-Term Temperate Climate Nitrogen Removal Performance in Open Raceway Pond and Horizontal Subsurface Flow Constructed Wetland Operated Under Different Regimes. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	5
126	Waste activated sludge treatment in an anaerobic dynamic membrane bioreactor at varying hydraulic retention time: Performance monitoring and microbial community analysis. <i>International Journal of Energy Research</i> , 2020, 44, 12485-12495.	2.2	27



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127	Effect of hydrogen and multiwall carbon nanotubes blends on combustion performance and emission of diesel engine using Taguchi approach. <i>Fuel</i> , 2020, 276, 118120.	3.4	73
128	Impact of additives in Jet-A fuel blends on combustion, emission and exergetic analysis using a micro-gas turbine engine. <i>Fuel</i> , 2020, 276, 118104.	3.4	63
129	Carbon molecular sieve production from defatted spent coffee ground using ZnCl <sub>2</sub> and benzene for gas purification. <i>Fuel</i> , 2020, 277, 118183.	3.4	20
130	Experimental insight into co-combustion characteristics of oxygenated biofuels in modified DICl engine. <i>Fuel</i> , 2020, 278, 118303.	3.4	15
131	A brief review of anaerobic membrane bioreactors emphasizing recent advancements, fouling issues and future perspectives. <i>Journal of Environmental Management</i> , 2020, 270, 110909.	3.8	101
132	Comparative study of nanoparticles and alcoholic fuel additives-biodiesel-diesel blend for performance and emission improvements. <i>Fuel</i> , 2020, 279, 118434.	3.4	136
133	Generation of electricity by the degradation of electro-Fenton pretreated latex wastewater using double chamber microbial fuel cell. <i>International Journal of Energy Research</i> , 2020, 44, 12496-12505.	2.2	15
134	Assessment of agro-industrial residues for bioenergy potential by investigating thermo-kinetic behavior in a slow pyrolysis process. <i>Fuel</i> , 2020, 278, 118259.	3.4	65
135	Application of molecular techniques in biohydrogen production as a clean fuel. <i>Science of the Total Environment</i> , 2020, 722, 137795.	3.9	32
136	A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery. <i>Fuel</i> , 2020, 270, 117494.	3.4	216
137	Adsorption, degradation, and mineralization of emerging pollutants (pharmaceuticals and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Research, 2020, 27, 34862-34905.	2.7	27
138	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. <i>Bioresource Technology</i> , 2020, 314, 123800.	4.8	54
139	Editorial Preface to the Special Issue on "The 2nd International Conference on Alternative Fuels and Energy: Futures and Challenges (ICAFE 2017)" 25th October 2017, Daegu, Republic of Korea. <i>Waste and Biomass Valorization</i> , 2020, 11, 1017-1017.	1.8	1
140	Biorefinery of spent coffee grounds waste: Viable pathway towards circular bioeconomy. <i>Bioresource Technology</i> , 2020, 302, 122821.	4.8	71
141	A novel energetically efficient combinative microwave pretreatment for achieving profitable hydrogen production from marine macro algae ( <i>Ulva reticulata</i> ). <i>Bioresource Technology</i> , 2020, 301, 122759.	4.8	32
142	Rheological improvement in performance of low-rank coal-water slurries using novel cost-effective additives. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2400.	0.8	15
143	Flowsheet Modeling and Simulation of Biomass Steam Gasification for Hydrogen Production. <i>Chemical Engineering and Technology</i> , 2020, 43, 649-660.	0.9	21
144	Valorization of underutilized waste biomass from invasive species to produce biochar for energy and other value-added applications. <i>Environmental Research</i> , 2020, 186, 109596.	3.7	60

#	ARTICLE	IF	CITATIONS
145	Optimization, kinetic and thermodynamic studies on sustainable biodiesel production from waste cooking oil: An Indian perspective. <i>Fuel</i> , 2020, 273, 117725.	3.4	100
146	Resource recovery from wastewater, solid waste, and waste gas: engineering and management aspects. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17435-17437.	2.7	31
147	Immobilized ZnO nano film impelled bacterial disintegration of dairy sludge to enrich anaerobic digestion for profitable bioenergy production: Energetic and economic analysis. <i>Bioresource Technology</i> , 2020, 308, 123276.	4.8	11
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