

Meisam Tabatabaei

List of Publications by Year in descending order

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Version: 2024-02-01

295
papers

21,629
citations

10373

72
h-index

12585

132
g-index

301
all docs

301
docs citations

301
times ranked

18135
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2020 report of The Lancet Countdown on health and climate change: responding to converging crises. <i>Lancet, The</i> , 2021, 397, 129-170.	6.3	1,030
2	Lignocellulosic biomass to bioethanol, a comprehensive review with a focus on pretreatment. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 77-93.	8.2	999
3	The 2019 report of The Lancet Countdown on health and climate change: ensuring that the health of a child born today is not defined by a changing climate. <i>Lancet, The</i> , 2019, 394, 1836-1878.	6.3	905
4	The Lancet Countdown on health and climate change: from 25 years of inaction to a global transformation for public health. <i>Lancet, The</i> , 2018, 391, 581-630.	6.3	802
5	The 2021 report of the Lancet Countdown on health and climate change: code red for a healthy future. <i>Lancet, The</i> , 2021, 398, 1619-1662.	6.3	669
6	The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come. <i>Lancet, The</i> , 2018, 392, 2479-2514.	6.3	595
7	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , 2020, 389, 124401.	6.6	484
8	A review on the prospects of sustainable biodiesel production: A global scenario with an emphasis on waste-oil biodiesel utilization. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 445-464.	8.2	399
9	Reactor technologies for biodiesel production and processing: A review. <i>Progress in Energy and Combustion Science</i> , 2019, 74, 239-303.	15.8	330
10	TiO ₂ nanocomposite based polymeric membranes: A review on performance improvement for various applications in chemical engineering processes. <i>Chemical Engineering Journal</i> , 2016, 283, 29-46.	6.6	317
11	Fatty acids profiling: A selective criterion for screening microalgae strains for biodiesel production. <i>Algal Research</i> , 2013, 2, 258-267.	2.4	315
12	Impacts of additives on performance and emission characteristics of diesel engines during steady state operation. <i>Progress in Energy and Combustion Science</i> , 2017, 59, 32-78.	15.8	305
13	Three pillars of sustainability in the wake of COVID-19: A systematic review and future research agenda for sustainable development. <i>Journal of Cleaner Production</i> , 2021, 297, 126660.	4.6	259
14	A comprehensive review on the environmental impacts of diesel/biodiesel additives. <i>Energy Conversion and Management</i> , 2018, 174, 579-614.	4.4	257
15	A novel soluble nano-catalysts in diesel/biodiesel fuel blends to improve diesel engines performance and reduce exhaust emissions. <i>Fuel</i> , 2015, 139, 374-382.	3.4	245
16	Machine learning technology in biodiesel research: A review. <i>Progress in Energy and Combustion Science</i> , 2021, 85, 100904.	15.8	231
17	A critical review of the effects of pretreatment methods on the exergetic aspects of lignocellulosic biofuels. <i>Energy Conversion and Management</i> , 2020, 212, 112792.	4.4	230
18	Encapsulation of <i>Mentha piperita</i> essential oils in chitosan/cinnamic acid nanogel with enhanced antimicrobial activity against <i>Aspergillus flavus</i> . <i>Industrial Crops and Products</i> , 2014, 54, 310-319.	2.5	229

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19	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. <i>Journal of Cleaner Production</i> , 2020, 270, 122462.	4.6	207
20	Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110148.	8.2	206
21	Electricity generation and GHG emission reduction potentials through different municipal solid waste management technologies: A comparative review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 414-439.	8.2	205
22	Immobilization of cellulase enzyme on superparamagnetic nanoparticles and determination of its activity and stability. <i>Chemical Engineering Journal</i> , 2011, 171, 669-673.	6.6	200
23	BiodieselAnalyzer: a user-friendly software for predicting the properties of prospective biodiesel. <i>Biofuel Research Journal</i> , 0, , 55-57.	7.2	190
24	A comprehensive review on recent biological innovations to improve biogas production, Part 1: Upstream strategies. <i>Renewable Energy</i> , 2020, 146, 1204-1220.	4.3	185
25	Rice bran oil-based biodiesel as a promising renewable fuel alternative to petrodiesel: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110204.	8.2	176
26	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110033.	8.2	176
27	Exergoenvironmental analysis of bioenergy systems: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111399.	8.2	174
28	Exergy analysis of a lignocellulosic-based biorefinery annexed to a sugarcane mill for simultaneous lactic acid and electricity production. <i>Energy</i> , 2018, 149, 623-638.	4.5	158
29	Evaluation of commercial PTFE membranes in desalination by direct contact membrane distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 76, 16-25.	1.8	156
30	Exergoeconomic analysis of a DI diesel engine fueled with diesel/biodiesel (B5) emulsions containing aqueous nano cerium oxide. <i>Energy</i> , 2018, 149, 967-978.	4.5	152
31	A comprehensive review on recent biological innovations to improve biogas production, Part 2: Mainstream and downstream strategies. <i>Renewable Energy</i> , 2020, 146, 1392-1407.	4.3	144
32	Engineered biochar via microwave CO ₂ and steam pyrolysis to treat carcinogenic Congo red dye. <i>Journal of Hazardous Materials</i> , 2020, 395, 122636.	6.5	142
33	Neat diesel beats waste-oriented biodiesel from the exergoeconomic and exergoenvironmental point of views. <i>Energy Conversion and Management</i> , 2017, 148, 1-15.	4.4	136
34	Environmental life cycle assessment of different biorefinery platforms valorizing municipal solid waste to bioenergy, microbial protein, lactic and succinic acid. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 117, 109493.	8.2	136
35	Recent updates on lignocellulosic biomass derived ethanol - A review. <i>Biofuel Research Journal</i> , 2016, 3, 347-356.	7.2	130
36	Biodiesel production from genetically engineered microalgae: Future of bioenergy in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1918-1927.	8.2	129

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37	A novel emulsion fuel containing aqueous nano cerium oxide additive in diesel“biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part I “ Experimental analysis. Fuel, 2017, 207, 741-750.	3.4	128
38	Comprehensive exergoeconomic analysis of a municipal solid waste digestion plant equipped with a biogas genset. Waste Management, 2019, 87, 485-498.	3.7	128
39	Pretreatment of lignocelluloses for enhanced biogas production: A review on influencing mechanisms and the importance of microbial diversity. Renewable and Sustainable Energy Reviews, 2021, 135, 110173.	8.2	128
40	On the exergoeconomic and exergoenvironmental evaluation and optimization of biodiesel synthesis from waste cooking oil (WCO) using a low power, high frequency ultrasonic reactor. Energy Conversion and Management, 2018, 164, 385-398.	4.4	127
41	Metabolic engineering of microorganisms for biofuel production. Renewable and Sustainable Energy Reviews, 2018, 82, 3863-3885.	8.2	124
42	Improving exergetic and sustainability parameters of a DI diesel engine using polymer waste dissolved in biodiesel as a novel diesel additive. Energy Conversion and Management, 2015, 105, 328-337.	4.4	123
43	Comprehensive exergy analysis of a gas engine-equipped anaerobic digestion plant producing electricity and biofertilizer from organic fraction of municipal solid waste. Energy Conversion and Management, 2017, 151, 753-763.	4.4	123
44	Upstream and downstream strategies to economize biodiesel production. Bioresource Technology, 2011, 102, 461-468.	4.8	122
45	Importance of the methanogenic archaea populations in anaerobic wastewater treatments. Process Biochemistry, 2010, 45, 1214-1225.	1.8	121
46	Encapsulation of Thyme essential oils in chitosan-benzoic acid nanogel with enhanced antimicrobial activity against Aspergillus flavus. LWT - Food Science and Technology, 2015, 60, 502-508.	2.5	120
47	A novel emulsion fuel containing aqueous nano cerium oxide additive in diesel“biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part II “ Exergetic analysis. Fuel, 2017, 205, 262-271.	3.4	118
48	Recent updates on biogas production - a review. Biofuel Research Journal, 2016, 3, 394-402.	7.2	114
49	Biogas production from food wastes: A review on recent developments and future perspectives. Bioresource Technology Reports, 2019, 7, 100202.	1.5	110
50	A review on beet sugar industry with a focus on implementation of waste-to-energy strategy for power supply. Renewable and Sustainable Energy Reviews, 2019, 103, 423-442.	8.2	109
51	Multi-objective exergetic and technical optimization of a piezoelectric ultrasonic reactor applied to synthesize biodiesel from waste cooking oil (WCO) using soft computing techniques. Fuel, 2019, 235, 100-112.	3.4	108
52	Biopower and biofertilizer production from organic municipal solid waste: An exergoenvironmental analysis. Renewable Energy, 2019, 143, 64-76.	4.3	107
53	Two decades of research on waste management in the circular economy: Insights from bibliometric, text mining, and content analyses. Journal of Cleaner Production, 2021, 314, 128009.	4.6	107
54	Encapsulation of Cuminum cyminum essential oils in chitosan-caffeic acid nanogel with enhanced antimicrobial activity against Aspergillus flavus. Industrial Crops and Products, 2015, 69, 251-256.	2.5	105

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55	Development of a quantum dots FRET-based biosensor for efficient detection of <i>Polymyxa betae</i> . Canadian Journal of Plant Pathology, 2012, 34, 507-515.	0.8	101
56	Effect of an emission-reducing soluble hybrid nanocatalyst in diesel/biodiesel blends on exergetic performance of a DI diesel engine. Renewable Energy, 2016, 93, 353-368.	4.3	99
57	A state-of-the-art review on the application of nanomaterials for enhancing biogas production. Journal of Environmental Management, 2019, 251, 109597.	3.8	99
58	Effects of aqueous carbon nanoparticles as a novel nanoadditive in water-emulsified diesel/biodiesel blends on performance and emissions parameters of a diesel engine. Energy Conversion and Management, 2019, 196, 1153-1166.	4.4	96
59	Physical and antimicrobial properties of starch-carboxy methyl cellulose film containing rosemary essential oils encapsulated in chitosan nanogel. International Journal of Biological Macromolecules, 2018, 112, 148-155.	3.6	94
60	Conversion of residues from agro-food industry into bioethanol in Iran: An under-valued biofuel additive to phase out MTBE in gasoline. Renewable Energy, 2020, 145, 699-710.	4.3	94
61	Fuzzy modeling and optimization of the synthesis of biodiesel from waste cooking oil (WCO) by a low power, high frequency piezo-ultrasonic reactor. Energy, 2017, 132, 65-78.	4.5	91
62	Valorization of municipal wastes using co-pyrolysis for green energy production, energy security, and environmental sustainability: A review. Chemical Engineering Journal, 2021, 421, 129749.	6.6	90
63	Formulation of Pickering sunflower oil-in-water emulsion stabilized by chitosan-stearic acid nanogel and studying its oxidative stability. Carbohydrate Polymers, 2019, 210, 47-55.	5.1	89
64	A comprehensive review on electricity generation and GHG emission reduction potentials through anaerobic digestion of agricultural and livestock/slaughterhouse wastes in Iran. Renewable and Sustainable Energy Reviews, 2019, 111, 571-594.	8.2	89
65	Comparative life cycle assessment of different municipal solid waste management scenarios in Iran. Renewable and Sustainable Energy Reviews, 2015, 51, 886-898.	8.2	88
66	Exact estimation of biodiesel cetane number (CN) from its fatty acid methyl esters (FAMES) profile using partial least square (PLS) adapted by artificial neural network (ANN). Energy Conversion and Management, 2016, 124, 389-398.	4.4	86
67	Prognostication of lignocellulosic biomass pyrolysis behavior using ANFIS model tuned by PSO algorithm. Fuel, 2019, 253, 189-198.	3.4	85
68	Environmental impact assessment of olive pomace oil biodiesel production and consumption: A comparative lifecycle assessment. Energy, 2016, 106, 87-102.	4.5	82
69	Performance assessment of a wind power plant using standard exergy and extended exergy accounting (EEA) approaches. Journal of Cleaner Production, 2018, 171, 127-136.	4.6	81
70	Simultaneous reduction of CO and NOx emissions as well as fuel consumption by using water and nano particles in Diesel-Biodiesel blend. Journal of Cleaner Production, 2019, 210, 1164-1170.	4.6	80
71	Exergetic, exergoeconomic, and exergoenvironmental aspects of an industrial-scale molasses-based ethanol production plant. Energy Conversion and Management, 2021, 227, 113637.	4.4	78
72	Life cycle assessment of different strategies for energy and nutrient recovery from source sorted organic fraction of household waste. Journal of Cleaner Production, 2018, 180, 360-374.	4.6	76

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73	Recent trends in biodiesel production. <i>Biofuel Research Journal</i> , 2015, 2, 258-267.	7.2	76
74	Encapsulation of <i>Rosmarinus officinalis</i> essential oils in chitosan-benzoic acid nanogel with enhanced antibacterial activity in beef cutlet against <i>Salmonella typhimurium</i> during refrigerated storage. <i>LWT - Food Science and Technology</i> , 2017, 84, 394-401.	2.5	74
75	Recent trends in acetone, butanol, and ethanol (ABE) production. <i>Biofuel Research Journal</i> , 2015, 2, 301-308.	7.2	74
76	Environmental life cycle assessment of biodiesel production from waste cooking oil: A systematic review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112411.	8.2	73
77	Machine learning predicts and optimizes hydrothermal liquefaction of biomass. <i>Chemical Engineering Journal</i> , 2022, 445, 136579.	6.6	73
78	Exergoeconomic and exergoenvironmental co-optimization of continuous fuel additives (acetins) synthesis from glycerol esterification with acetic acid using Amberlyst 36 catalyst. <i>Energy Conversion and Management</i> , 2018, 165, 183-194.	4.4	72
79	Characterization of electrospun polystyrene membrane for treatment of biodiesel's water-washing effluent using atomic force microscopy. <i>Desalination</i> , 2013, 329, 1-8.	4.0	70
80	Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 156, 111975.	8.2	69
81	Mapping healthcare waste management research: Past evolution, current challenges, and future perspectives towards a circular economy transition. <i>Journal of Hazardous Materials</i> , 2022, 422, 126724.	6.5	68
82	Recent advances in polyurethanes as efficient media for thermal energy storage. <i>Energy Storage Materials</i> , 2020, 30, 74-86.	9.5	67
83	Comparative Salt Stress Study on Intracellular Ion Concentration in Marine and Salt-adapted Freshwater Strains of Microalgae. <i>Notulae Scientia Biologicae</i> , 2013, 5, 309-315.	0.1	64
84	Exergy-based sustainability analysis of acetins synthesis through continuous esterification of glycerol in acetic acid using Amberlyst®36 as catalyst. <i>Journal of Cleaner Production</i> , 2018, 183, 1265-1275.	4.6	64
85	Emerging challenges of air pollution and particulate matter in China, India, and Pakistan and mitigating solutions. <i>Journal of Hazardous Materials</i> , 2021, 416, 125851.	6.5	64
86	Advancement in valorization technologies to improve utilization of bio-based waste in bioeconomy context. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 109965.	8.2	63
87	A coating based on clove essential oils encapsulated by chitosan-myristic acid nanogel efficiently enhanced the shelf-life of beef cutlets. <i>Food Packaging and Shelf Life</i> , 2017, 14, 137-145.	3.3	62
88	Concentration of glycerol from dilute glycerol wastewater using sweeping gas membrane distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 78, 58-66.	1.8	60
89	Sustainable management of municipal solid waste through waste-to-energy technologies. <i>Bioresource Technology</i> , 2022, 355, 127247.	4.8	60
90	Techno-economic aspects of a safflower-based biorefinery plant co-producing bioethanol and biodiesel. <i>Energy Conversion and Management</i> , 2019, 201, 112184.	4.4	59

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91	Exergy-based sustainability analysis of a low power, high frequency piezo-based ultrasound reactor for rapid biodiesel production. <i>Energy Conversion and Management</i> , 2017, 148, 759-769.	4.4	58
92	Environmental impact assessment of the mechanical shaft work produced in a diesel engine running on diesel/biodiesel blends containing glycerol-derived triacetin. <i>Journal of Cleaner Production</i> , 2019, 223, 466-486.	4.6	58
93	A review of the effect of biodiesel on the corrosion behavior of metals/alloys in diesel engines. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 2923-2943.	1.2	58
94	Bioethanol production from food wastes rich in carbohydrates. <i>Current Opinion in Food Science</i> , 2022, 43, 71-81.	4.1	57
95	The use of ELM-WT (extreme learning machine with wavelet transform algorithm) to predict exergetic performance of a DI diesel engine running on diesel/biodiesel blends containing polymer waste. <i>Energy</i> , 2016, 94, 443-456.	4.5	56
96	Soft computing-based modeling and emission control/reduction of a diesel engine fueled with carbon nanoparticle-dosed water/diesel emulsion fuel. <i>Journal of Hazardous Materials</i> , 2021, 407, 124369.	6.5	56
97	Manipulation of carbon flux into fatty acid biosynthesis pathway in <i>Dunaliella salina</i> using AccD and ME genes to enhance lipid content and to improve produced biodiesel quality. <i>Biofuel Research Journal</i> , 0, , 91-97.	7.2	56
98	Experimental investigation of low-level water in waste-oil produced biodiesel-diesel fuel blend. <i>Energy</i> , 2017, 121, 331-340.	4.5	55
99	Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111645.	8.2	55
100	Experimental investigation of performance and emission characteristics of DI diesel engine fueled with polymer waste dissolved in biodiesel-blended diesel fuel. <i>Energy</i> , 2012, 46, 596-605.	4.5	54
101	Support vector machine-based exergetic modelling of a DI diesel engine running on biodiesel-diesel blends containing expanded polystyrene. <i>Applied Thermal Engineering</i> , 2016, 94, 727-747.	3.0	54
102	Recent updates on the production and upgrading of bio-crude oil from microalgae. <i>Bioresource Technology Reports</i> , 2019, 7, 100216.	1.5	54
103	Highly sensitive FRET-based fluorescence immunoassay for aflatoxin B1 using cadmium telluride quantum dots. <i>Mikrochimica Acta</i> , 2013, 180, 1217-1223.	2.5	53
104	Managing the hazardous waste cooking oil by conversion into bioenergy through the application of waste-derived green catalysts: A review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127636.	6.5	53
105	Continuous co-production of ethanol and xylitol from rice straw hydrolysate in a membrane bioreactor. <i>Folia Microbiologica</i> , 2016, 61, 179-189.	1.1	52
106	High quality potassium phosphate production through step-by-step glycerol purification: A strategy to economize biodiesel production. <i>Bioresource Technology</i> , 2012, 104, 788-790.	4.8	51
107	Characterization of polymeric membranes for membrane distillation using atomic force microscopy. <i>Desalination and Water Treatment</i> , 2013, 51, 6003-6008.	1.0	51
108	Estimation of biomass higher heating value (HHV) based on the proximate analysis by using iterative neural network-adapted partial least squares (INNPLS). <i>Energy</i> , 2017, 138, 473-479.	4.5	51

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109	Acceleration of biodiesel's glycerol decantation through NaCl-assisted gravitational settling: A strategy to economize biodiesel production. <i>Bioresource Technology</i> , 2013, 134, 401-406.	4.8	50
110	Shifting fuel feedstock from oil wells to sea: Iran outlook and potential for biofuel production from brown macroalgae (ochrophyta; phaeophyceae). <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 626-642.	8.2	50
111	Applications of Nanotechnology and Carbon Nanoparticles in Agriculture. , 2019, , 247-277.		50
112	Environmental life cycle assessment of different biorefinery platforms valorizing olive wastes to biofuel, phosphate salts, natural antioxidant, and an oxygenated fuel additive (triacetin). <i>Journal of Cleaner Production</i> , 2021, 278, 123916.	4.6	50
113	Biomass and organic waste potentials towards implementing circular bioeconomy platforms: A systematic bibliometric analysis. <i>Fuel</i> , 2022, 318, 123585.	3.4	50
114	Experimental investigation of the effect of cerium oxide nanoparticles as a combustion-improving additive on biodiesel oxidative stability: mechanism. <i>RSC Advances</i> , 2014, 4, 14352.	1.7	49
115	Fluorometric immunoassay for detecting the plant virus Citrus tristeza using carbon nanoparticles acting as quenchers and antibodies labeled with CdTe quantum dots. <i>Mikrochimica Acta</i> , 2016, 183, 2277-2287.	2.5	48
116	Progress toward improving ethanol production through decreased glycerol generation in <i>Saccharomyces cerevisiae</i> by metabolic and genetic engineering approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109353.	8.2	48
117	Exergoeconomic analysis of lactic acid and power cogeneration from sugarcane residues through a biorefinery approach. <i>Renewable Energy</i> , 2019, 143, 872-889.	4.3	48
118	Antibody-mediated resistance against plant pathogens. <i>Biotechnology Advances</i> , 2011, 29, 961-971.	6.0	46
119	Preparation and Characterization of CTAB-Coated Fe ₃ O ₄ Nanoparticles. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 644-648.	0.6	46
120	Detection of Citrus tristeza virus by using fluorescence resonance energy transfer-based biosensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 169, 216-222.	2.0	45
121	Exergy-based sustainability assessment of continuous photobiological hydrogen production using anaerobic bacterium <i>Rhodospirillum rubrum</i> . <i>Journal of Cleaner Production</i> , 2016, 139, 157-166.	4.6	45
122	Biogas and bioethanol production from pinewood pre-treated with steam explosion and N-methylmorpholine-N-oxide (NMMO): A comparative life cycle assessment approach. <i>Energy</i> , 2016, 114, 935-950.	4.5	44
123	Life cycle assessment analysis of an ultrasound-assisted system converting waste cooking oil into biodiesel. <i>Renewable Energy</i> , 2020, 151, 1352-1364.	4.3	44
124	Wet wastes to bioenergy and biochar: A critical review with future perspectives. <i>Science of the Total Environment</i> , 2022, 817, 152921.	3.9	44
125	Techno-economic comparison of three biodiesel production scenarios enhanced by glycerol supercritical water reforming process. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17845-17862.	3.8	43
126	Energy flow modeling and life cycle assessment of apple juice production: Recommendations for renewable energies implementation and climate change mitigation. <i>Journal of Cleaner Production</i> , 2020, 246, 118997.	4.6	43

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127	A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. <i>Chemosphere</i> , 2022, 288, 132559.	4.2	43
128	Nitrification of ammonium-rich sanitary landfill leachate. <i>Waste Management</i> , 2010, 30, 100-109.	3.7	42
129	Describing biomass pyrolysis kinetics using a generic hybrid intelligent model: A critical stage in sustainable waste-oriented biorefineries. <i>Renewable Energy</i> , 2021, 170, 81-91.	4.3	42
130	Polyhydroxyalkanoate production from anaerobically treated palm oil mill effluent by new bacterial strain <i>Comamonas</i> sp. EB172. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 767-774.	1.7	41
131	Computational design and synthesis of molecular imprinted polymers for selective extraction of allopurinol from human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 898, 24-31.	1.2	41
132	Pistachio (<i>Pistachia vera</i>) wastes valorization: Enhancement of biodiesel oxidation stability using hull extracts of different varieties. <i>Journal of Cleaner Production</i> , 2018, 185, 852-859.	4.6	41
133	Safflower-based biorefinery producing a broad spectrum of biofuels and biochemicals: A life cycle assessment perspective. <i>Science of the Total Environment</i> , 2022, 802, 149842.	3.9	40
134	Biofuel supply chain management in the circular economy transition: An inclusive knowledge map of the field. <i>Chemosphere</i> , 2022, 296, 133968.	4.2	40
135	Genetic manipulation, a feasible tool to enhance unique characteristic of <i>Chlorella vulgaris</i> as a feedstock for biodiesel production. <i>Molecular Biology Reports</i> , 2013, 40, 4421-4428.	1.0	39
136	Exergy-based optimization of a continuous reactor applied to produce value-added chemicals from glycerol through esterification with acetic acid. <i>Energy</i> , 2018, 150, 351-362.	4.5	39
137	Potential of Acid-Activated Bentonite and SO ₃ H-Functionalized MWCNTs for Biodiesel Production From Residual Olive Oil Under Biorefinery Scheme. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	39
138	Effects of waste-derived ethylene glycol diacetate as a novel oxygenated additive on performance and emission characteristics of a diesel engine fueled with diesel/biodiesel blends. <i>Energy Conversion and Management</i> , 2020, 203, 112245.	4.4	39
139	Emissions from urban bus fleets running on biodiesel blends under real-world operating conditions: Implications for designing future case studies. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 276-292.	8.2	38
140	Enhanced power generation and desalination rate in a novel quadruple microbial desalination cell with a single desalination chamber. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109855.	8.2	38
141	Expanded polystyrene waste application for improving biodiesel environmental performance parameters from life cycle assessment point of view. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 278-298.	8.2	37
142	Biomass higher heating value (HHV) modeling on the basis of proximate analysis using iterative network-based fuzzy partial least squares coupled with principle component analysis (PCA-INFPLS). <i>Fuel</i> , 2018, 222, 1-10.	3.4	37
143	Modeling of a dual fueled diesel engine operated by a novel fuel containing glycerol triacetate additive and biodiesel using artificial neural network tuned by genetic algorithm to reduce engine emissions. <i>Energy</i> , 2019, 168, 1128-1137.	4.5	37
144	Unlocking the potential of walnut husk extract in the production of waste cooking oil-based biodiesel. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109588.	8.2	37

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145	Exergy analysis of biohydrogen production from various carbon sources via anaerobic photosynthetic bacteria (<i>Rhodospirillum rubrum</i>). <i>Energy</i> , 2015, 93, 730-739.	4.5	36
146	Towards upscaling microbial desalination cell technology: A comprehensive review on current challenges and future prospects. <i>Journal of Cleaner Production</i> , 2021, 288, 125597.	4.6	36
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