

Meisam Tabatabaei

List of Publications by Year in descending order

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Version: 2025-02-01

322
papers

24,856
citations

5000

79
h-index

6929

145
g-index

326
all docs

326
docs citations

326
times ranked

23336
citing authors

#	ARTICLE	IF	CITATIONS
1	The physics of phase transition phenomena enhanced by nanoparticles. <i>Applied Physics Reviews</i> , 2025, 12, .	10.7	0
2	Oxidation-alkaline-enhanced abiotic humification valorizes lignin-rich biogas digestate into artificial humic acids. <i>Journal of Cleaner Production</i> , 2024, 435, 140409.	9.8	13
3	Unraveling the mechanisms underlying lignin and xylan dissolution in recyclable biphasic catalytic systems. <i>Fuel</i> , 2024, 363, 130890.	7.6	11
4	Machine learning-based optimization of catalytic hydrodeoxygenation of biomass pyrolysis oil. <i>Journal of Cleaner Production</i> , 2024, 437, 140738.	9.8	11
5	Dual assistance of surfactants in glycerol organosolv pretreatment and enzymatic hydrolysis of lignocellulosic biomass for bioethanol production. <i>Bioresource Technology</i> , 2024, 395, 130358.	10.0	14
6	Dual assistance of surfactants in glycerol organosolv pretreatment and enzymatic hydrolysis of lignocellulosic biomass for bioethanol production. <i>Bioresource Technology</i> , 2024, 395, 130358.	10.0	5
7	Unraveling the mechanisms underlying lignin and xylan dissolution in recyclable biphasic catalytic systems. <i>Fuel</i> , 2024, 363, 130890.	7.6	6
8	Highly humified nitrogen-functionalized lignite activated by urea pretreatment and ozone plasma oxidation. <i>Chemical Engineering Journal</i> , 2023, 456, 140978.	11.9	10
9	Tuning chitosan's chemical structure for enhanced biological functions. <i>Trends in Biotechnology</i> , 2023, 41, 785-797.	11.2	34
10	Using evolutionary machine learning to characterize and optimize co-pyrolysis of biomass feedstocks and polymeric wastes. <i>Journal of Cleaner Production</i> , 2023, 387, 135881.	9.8	38
11	Sustainable lignocellulose fractionation by integrating p-toluenesulfonic acid/pentanol pretreatment with mannitol for efficient production of glucose, native-like lignin, and furfural. <i>Bioresource Technology</i> , 2023, 371, 128591.	10.0	27
12	A critical review of the use of nanomaterials in the biomass pyrolysis process. <i>Journal of Cleaner Production</i> , 2023, 400, 136705.	9.8	41
13	The role of global reanalyses in climate services for health: Insights from the <i>Lancet</i> Countdown. <i>Meteorological Applications</i> , 2023, 30, .	2.4	13
14	Machine learning-based characterization of hydrochar from biomass: Implications for sustainable energy and material production. <i>Fuel</i> , 2023, 347, 128467.	7.6	34
15	Using nanocatalysts to upgrade pyrolysis bio-oil: A critical review. <i>Journal of Cleaner Production</i> , 2023, 413, 137473.	9.8	33
16	Integrated pretreatment of poplar biomass employing p-toluenesulfonic acid catalyzed liquid hot water and short-time ball milling for complete conversion to xylooligosaccharides, glucose, and native-like lignin. <i>Bioresource Technology</i> , 2023, 384, 129370.	10.0	22
17	Investigation of ketal-acetin mixture synthesized from glycerol as a renewable additive for gasoline-ethanol fuel blend: Physicochemical characterization and engine combustion, performance, and emission assessment. <i>Fuel</i> , 2023, 348, 128519.	7.6	3
18	Turning hazardous volatile matter compounds into fuel by catalytic steam reforming: An evolutionary machine learning approach. <i>Journal of Cleaner Production</i> , 2023, 413, 137329.	9.8	11

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19	The potential of aquatic weed as a resource for sustainable bioenergy sources and bioproducts production. <i>Energy</i> , 2023, 278, 127871.	9.3	15
20	Non-catalytic proteins as promising detoxifiers in lignocellulosic biomass pretreatment: unveiling the mechanism for enhanced enzymatic hydrolysis. <i>Green Chemistry</i> , 2023, 25, 7141-7156.	9.3	10
21	Product diversification to boost the sustainability of the shrimp processing industry: The case of shrimp-waste driven chitosan-based food Pickering emulsion stabilizers. <i>Journal of Cleaner Production</i> , 2023, 425, 138958.	9.8	6
22	A multi-approach framework for developing feasible, viable, and sustainable hybrid energy systems in remote areas: The case of Con Dao island in Vietnam. <i>Journal of Cleaner Production</i> , 2023, 426, 139072.	9.8	2
23	Environmental footprint analysis of gold recycling from electronic waste: A comparative life cycle analysis. <i>Journal of Cleaner Production</i> , 2023, 432, 139675.	9.8	9
24	Oncolytic viruses as a promising therapeutic strategy against the detrimental health impacts of air pollution: The case of glioblastoma multiforme. <i>Seminars in Cancer Biology</i> , 2022, 86, 1122-1142.	14.2	10
25	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.	12.4	98
26	A comparative study on physicochemical properties, pyrolytic behaviour and kinetic parameters of environmentally harmful aquatic weeds for sustainable shellfish aquaculture. <i>Journal of Hazardous Materials</i> , 2022, 424, 127329.	12.4	5
27	Exergy, economic, and environmental assessment of ethanol dehydration to diesel fuel additive diethyl ether. <i>Fuel</i> , 2022, 308, 121918.	7.6	15
28	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.	8.4	49
29	Progress in thermochemical conversion of aquatic weeds in shellfish aquaculture for biofuel generation: Technical and economic perspectives. <i>Bioresource Technology</i> , 2022, 344, 126202.	10.0	23
30	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.	12.4	81
31	Engineered bacteria for valorizing lignocellulosic biomass into bioethanol. <i>Bioresource Technology</i> , 2022, 344, 126212.	10.0	24
32	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.	8.4	63
33	Bioethanol production from food wastes rich in carbohydrates. <i>Current Opinion in Food Science</i> , 2022, 43, 71-81.	6.9	92
34	Upgrading of biomass-derived bio-oil via catalytic hydrogenation with Rh and Pd catalysts. <i>Renewable Energy</i> , 2022, 184, 487-497.	9.5	28
35	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. <i>Chemosphere</i> , 2022, 291, 133036.	8.4	27
36	Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 156, 111975.	17.8	99

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37	Engineered biochar produced through microwave pyrolysis as a fuel additive in biodiesel combustion. <i>Fuel</i> , 2022, 312, 122839.	7.6	31
38	Efficient ethanol production from rice straw through cellulose restructuring and high solids loading fermentation by <i>Mucor indicus</i> . <i>Journal of Cleaner Production</i> , 2022, 339, 130702.	9.8	17
39	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions. <i>Bioresource Technology</i> , 2022, 347, 126687.	10.0	36
40	Wet wastes to bioenergy and biochar: A critical review with future perspectives. <i>Science of the Total Environment</i> , 2022, 817, 152921.	8.4	75
41	Tailored enzymes as next-generation food-packaging tools. <i>Trends in Biotechnology</i> , 2022, 40, 1004-1017.	11.2	21
42	Production of value-added hydrochar from single-mode microwave hydrothermal carbonization of oil palm waste for de-chlorination of domestic water. <i>Science of the Total Environment</i> , 2022, 833, 154968.	8.4	20
43	Tracking the impacts of climate change on human health via indicators: lessons from the Lancet Countdown. <i>BMC Public Health</i> , 2022, 22, .	3.3	29
44	Biofuel supply chain management in the circular economy transition: An inclusive knowledge map of the field. <i>Chemosphere</i> , 2022, 296, 133968.	8.4	53
45	Biomass and organic waste potentials towards implementing circular bioeconomy platforms: A systematic bibliometric analysis. <i>Fuel</i> , 2022, 318, 123585.	7.6	64
46	Environmental life cycle assessment of biodiesel production from waste cooking oil: A systematic review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112411.	17.8	123
47	A comprehensive review on anaerobic fungi applications in biofuels production. <i>Science of the Total Environment</i> , 2022, 829, 154521.	8.4	18
48	Biodiesel antioxidants and their impact on the behavior of diesel engines: A comprehensive review. <i>Fuel Processing Technology</i> , 2022, 232, 107264.	7.6	50
49	Sustainable management of municipal solid waste through waste-to-energy technologies. <i>Bioresource Technology</i> , 2022, 355, 127247.	10.0	99
50	Energetic sustainability evaluation of horse manure biomass valorization by microwave pyrolysis. <i>Fuel</i> , 2022, 323, 124286.	7.6	8
51	Effect of type of fatty acid attached to chitosan on walnut oil-in-water Pickering emulsion properties. <i>Carbohydrate Polymers</i> , 2022, 291, 119566.	12.1	38
52	Machine learning predicts and optimizes hydrothermal liquefaction of biomass. <i>Chemical Engineering Journal</i> , 2022, 445, 136579.	11.9	119
53	To what extent do waste management strategies need adaptation to post-COVID-19?. <i>Science of the Total Environment</i> , 2022, 837, 155829.	8.4	40
54	Production of biochar using sustainable microwave pyrolysis approach. , 2022, , 323-332.		1

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55	Highly digestible nitrogen-enriched straw upgraded by ozone-urea pretreatment: Digestibility metrics and energy-economic analysis. <i>Bioresource Technology</i> , 2022, 360, 127576.	10.0	8
56	Producing submicron chitosan-stabilized oil Pickering emulsion powder by an electrostatic collector-equipped spray dryer. <i>Carbohydrate Polymers</i> , 2022, 294, 119791.	12.1	34
57	In-depth insights into the temporal-based fouling mechanism and its exploration in anaerobic membrane bioreactors: A review. <i>Journal of Cleaner Production</i> , 2022, 375, 134110.	9.8	26
58	Biomethane and biodiesel production from sunflower crop: A biorefinery perspective. <i>Renewable Energy</i> , 2022, 200, 1352-1361.	9.5	13
59	Review on waste biomass valorization and power management systems for microbial fuel cell application. <i>Journal of Cleaner Production</i> , 2022, 380, 134994.	9.8	34
60	Seed oils of <i>Sisymbrium irio</i> and <i>Sisymbrium sophia</i> as a potential non-edible feedstock for biodiesel production. <i>Biofuels</i> , 2021, 12, 103-111.	2.7	9
61	Pretreatment of lignocelluloses for enhanced biogas production: A review on influencing mechanisms and the importance of microbial diversity. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110173.	17.8	151
62	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.	17.8	256
63	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.	17.8	207
64	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.	9.8	65
65	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110033.	17.8	234
66	Exergetic, exergoeconomic, and exergoenvironmental aspects of an industrial-scale molasses-based ethanol production plant. <i>Energy Conversion and Management</i> , 2021, 227, 113637.	10.9	87
67	The 2020 report of The Lancet Countdown on health and climate change: responding to converging crises. <i>Lancet, The</i> , 2021, 397, 129-170.	35.3	1,185
68	Exergy analysis of a whole-crop safflower biorefinery: A step towards reducing agricultural wastes in a sustainable manner. <i>Journal of Environmental Management</i> , 2021, 279, 111822.	8.3	39
69	Towards upscaling microbial desalination cell technology: A comprehensive review on current challenges and future prospects. <i>Journal of Cleaner Production</i> , 2021, 288, 125597.	9.8	50
70	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.	12.4	58
71	Simultaneous phycoremediation of petrochemical wastewater and lipid production by <i>Chlorella vulgaris</i> . <i>SN Applied Sciences</i> , 2021, 3, .	2.4	16
72	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.	9.8	315

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73	The effects of nanoadditives on the performance and emission characteristics of spark-ignition gasoline engines: A critical review with a focus on health impacts. <i>Energy</i> , 2021, 225, 120259.	9.3	42
74	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.	9.5	47
75	Performance and emission analysis of a dual-fuel engine operating on high natural gas substitution rates ignited by aqueous carbon nanoparticles-laden diesel/biodiesel emulsions. <i>Fuel</i> , 2021, 294, 120246.	7.6	18
76	An Overview on the Conversion of Forest Biomass into Bioenergy. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	45
77	Machine learning technology in biodiesel research: A review. <i>Progress in Energy and Combustion Science</i> , 2021, 85, 100904.	40.1	304
78	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.	12.4	110
79	Exergetic, economic, and environmental life cycle assessment analyses of a heavy-duty tractor diesel engine fueled with diesel-biodiesel-bioethanol blends. <i>Energy Conversion and Management</i> , 2021, 241, 114300.	10.9	43
80	Improving sustainability and mitigating environmental impacts of agro-biowaste compost fertilizer by pelletizing-drying. <i>Environmental Pollution</i> , 2021, 285, 117412.	7.8	39
81	Sustainability assessment of sugarcane residues valorization to biobutadiene by exergy and exergoeconomic evaluation. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111214.	17.8	20
82	Exergy intensity and environmental consequences of the medical face masks curtailing the COVID-19 pandemic: Malign bodyguard?. <i>Journal of Cleaner Production</i> , 2021, 313, 127880.	9.8	34
83	Two decades of research on waste management in the circular economy: Insights from bibliometric, text mining, and content analyses. <i>Journal of Cleaner Production</i> , 2021, 314, 128009.	9.8	151
84	Net-zero exergoeconomic and exergoenvironmental building as new concepts for developing sustainable built environments. <i>Energy Conversion and Management</i> , 2021, 244, 114418.	10.9	32
85	Independent parallel pyrolysis kinetics of extracted proteins and lipids as well as model carbohydrates in microalgae. <i>Applied Energy</i> , 2021, 300, 117372.	11.3	40
86	Exergoenvironmental analysis of bioenergy systems: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111399.	17.8	203
87	Valorization of municipal wastes using co-pyrolysis for green energy production, energy security, and environmental sustainability: A review. <i>Chemical Engineering Journal</i> , 2021, 421, 129749.	11.9	116
88	Exergetic performance evaluation of a diesel engine powered by diesel/biodiesel mixtures containing oxygenated additive ethylene glycol diacetate. <i>Science of the Total Environment</i> , 2021, 792, 148435.	8.4	16
89	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.	17.8	88
90	New developments in sustainable waste-to-energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111581.	17.8	17

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91	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.	35.3	844
92	Life cycle assessment of bioenergy product systems: A critical review. <i>E-Prime</i> , 2021, 1, 100015.	3.0	23
93	Conversion of residues from agro-food industry into bioethanol in Iran: An under-valued biofuel additive to phase out MTBE in gasoline. <i>Renewable Energy</i> , 2020, 145, 699-710.	9.5	109
94	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.	2.0	63
95	A comprehensive review on recent biological innovations to improve biogas production, Part 1: Upstream strategies. <i>Renewable Energy</i> , 2020, 146, 1204-1220.	9.5	212
96	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.	9.5	166
97	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.	10.9	44
98	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.	9.8	54
99	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.	17.8	165
100	Data on environmental analysis of natural antioxidant production from walnut husk by a solar photovoltaic-driven system as a replacement for potentially carcinogenic synthetic antioxidants. <i>Data in Brief</i> , 2020, 28, 104933.	1.4	5
101	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.	17.8	42
102	Life cycle assessment analysis of an ultrasound-assisted system converting waste cooking oil into biodiesel. <i>Renewable Energy</i> , 2020, 151, 1352-1364.	9.5	50
103	Determining biomass chemical exergy using a novel hybrid intelligent approach to promote biomass-based biorefineries. <i>Journal of Cleaner Production</i> , 2020, 277, 124089.	9.8	14
104	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. <i>Journal of Cleaner Production</i> , 2020, 270, 122462.	9.8	287
105	Recent Advances in Monitoring, Sampling, and Sensing Techniques for Bioaerosols in the Atmosphere. <i>ACS Sensors</i> , 2020, 5, 1254-1267.	8.9	43
106	Integrated sustainability analysis of combustion engines (ISACE) as an alternative to classical combustion analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 109981.	17.8	8
107	Advancement in valorization technologies to improve utilization of bio-based waste in bioeconomy context. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 109965.	17.8	81
108	A new systematic decision support framework based on solar extended exergy accounting performance to prioritize photovoltaic sites. <i>Journal of Cleaner Production</i> , 2020, 256, 120356.	9.8	21

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109	Energy recovery and carbon/nitrogen removal from sewage and contaminated groundwater in a coupled hydrolytic-acidogenic sequencing batch reactor and denitrifying biocathode microbial fuel cell. <i>Environmental Research</i> , 2020, 183, 109273.	8.0	34
110	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , 2020, 389, 124401.	11.9	577
111	Consolidating emission indices of a diesel engine powered by carbon nanoparticle-doped diesel/biodiesel emulsion fuels using life cycle assessment framework. <i>Fuel</i> , 2020, 267, 117296.	7.6	32
112	Determining key issues in life-cycle assessment of waste biorefineries. , 2020, , 515-555.		5
113	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.	10.9	261
114	Data supporting consolidating emission indices of a diesel engine powered by carbon nanoparticle-doped diesel/biodiesel emulsion fuels using life cycle assessment framework. <i>Data in Brief</i> , 2020, 30, 105428.	1.4	9
115	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.	17.8	44
116	Engineered biochar via microwave CO ₂ and steam pyrolysis to treat carcinogenic Congo red dye. <i>Journal of Hazardous Materials</i> , 2020, 395, 122636.	12.4	169
117	Algae-Powered Buildings: A Strategy to Mitigate Climate Change and Move Toward Circular Economy. <i>Modeling and Optimization in Science and Technologies</i> , 2020, , 353-365.	0.0	6
118	Biofuels: Types, Promises, Challenges, and Role of Fungi. <i>Fungal Biology</i> , 2020, , 1-14.	0.0	3
119	Recent advances in polyurethanes as efficient media for thermal energy storage. <i>Energy Storage Materials</i> , 2020, 30, 74-86.	18.0	73
120	Description of novel species of <i>Aliinostoc</i> , <i>Desikacharya</i> and <i>Desmonostoc</i> using a polyphasic approach. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 3413-3426.	1.7	30
121	The critical role of advanced sustainability assessment tools in enhancing the real-world application of biofuels. <i>Acta Innovations</i> , 2020, , 67-73.	0.8	9
122	Life Cycle Analysis for Biodiesel Production from Oleaginous Fungi. <i>Fungal Biology</i> , 2020, , 199-225.	0.0	7
123	Fungal Biocontrol Agents as a New Source for Bioethanol Production. <i>Fungal Biology</i> , 2020, , 69-104.	0.0	1
124	Bioethanol Production by Using Plant-Pathogenic Fungi. <i>Fungal Biology</i> , 2020, , 15-38.	0.0	4
125	Fungi as Bioreactors for Biodiesel Production. <i>Fungal Biology</i> , 2020, , 39-67.	0.0	4
126	Anaerobic Rumen Fungi for Biofuel Production. <i>Fungal Biology</i> , 2020, , 149-175.	0.0	4

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127	Multi-objective exergoeconomic and exergoenvironmental optimization of continuous synthesis of solketal through glycerol ketalization with acetone in the presence of ethanol as co-solvent. <i>Renewable Energy</i> , 2019, 130, 735-748.	9.5	31
128	Multi-objective exergetic and technical optimization of a piezoelectric ultrasonic reactor applied to synthesize biodiesel from waste cooking oil (WCO) using soft computing techniques. <i>Fuel</i> , 2019, 235, 100-112.	7.6	111
129	Reactor technologies for biodiesel production and processing: A review. <i>Progress in Energy and Combustion Science</i> , 2019, 74, 239-303.	40.1	375
130	Effects of aqueous carbon nanoparticles as a novel nanoadditive in water-emulsified diesel/biodiesel blends on performance and emissions parameters of a diesel engine. <i>Energy Conversion and Management</i> , 2019, 196, 1153-1166.	10.9	103
131	A state-of-the-art review on the application of nanomaterials for enhancing biogas production. <i>Journal of Environmental Management</i> , 2019, 251, 109597.	8.3	104
132	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</i> , 2019, 394, 1836-1878.	35.3	1,001
133	Techno-economic aspects of a safflower-based biorefinery plant co-producing bioethanol and biodiesel. <i>Energy Conversion and Management</i> , 2019, 201, 112184.	10.9	65
134	Multivariable optimization of carbon nanoparticles synthesized from waste facial tissues by artificial neural networks, new material for downstream quenching of quantum dots. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3156-3165.	2.2	13
135	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.	17.8	58
136	Formulation of Pickering sunflower oil-in-water emulsion stabilized by chitosan-stearic acid nanogel and studying its oxidative stability. <i>Carbohydrate Polymers</i> , 2019, 210, 47-55.	12.1	103
137	Metabolic Engineering of Microalgae for Biofuel Production. <i>Methods in Molecular Biology</i> , 2019, , 153-172.	0.0	20
138	Spatio-temporal solar exergoeconomic and exergoenvironmental maps for photovoltaic systems. <i>Energy Conversion and Management</i> , 2019, 195, 701-711.	10.9	32
139	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.	17.8	54
140	A comprehensive review on electricity generation and GHG emission reduction potentials through anaerobic digestion of agricultural and livestock/slaughterhouse wastes in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 571-594.	17.8	102
141	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.	9.2	46
142	Exergoeconomic analysis of lactic acid and power cogeneration from sugarcane residues through a biorefinery approach. <i>Renewable Energy</i> , 2019, 143, 872-889.	9.5	49
143	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.	17.8	40
144	Recent updates on the production and upgrading of bio-crude oil from microalgae. <i>Bioresource Technology Reports</i> , 2019, 7, 100216.	3.0	63

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145	Prognostication of lignocellulosic biomass pyrolysis behavior using ANFIS model tuned by PSO algorithm. <i>Fuel</i> , 2019, 253, 189-198.	7.6	95
146	Biopower and biofertilizer production from organic municipal solid waste: An exergoenvironmental analysis. <i>Renewable Energy</i> , 2019, 143, 64-76.	9.5	115
147	Biogas production from food wastes: A review on recent developments and future perspectives. <i>Bioresource Technology Reports</i> , 2019, 7, 100202.	3.0	132
148	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.	9.8	59
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