Mortaza Aghbashlo

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222 papers	8,881 citations	56 h-index	84 g-index
228 ext. papers	11,340 ext. citations	8.3 avg, IF	7.13 L-index

#	Paper	IF	Citations
222	A review on the prospects of sustainable biodiesel production: A global scenario with an emphasis on waste-oil biodiesel utilization. *Renewable and Sustainable Energy Reviews*, **2017**, 72, 445-464	16.2	292
221	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. *Chemical Engineering Journal*, **2020**, 389, 124401	14.7	254
220	Impacts of additives on performance and emission characteristics of diesel engines during steady state operation. *Progress in Energy and Combustion Science*, **2017**, 59, 32-78	33.6	237
219	Influence of drying conditions on the effective moisture diffusivity, energy of activation and energy consumption during the thin-layer drying of berberis fruit (Berberidaceae). *Energy Conversion and Management*, **2008**, 49, 2865-2871	10.6	217
218	A comprehensive review on the environmental impacts of diesel/biodiesel additives. *Energy Conversion and Management*, **2018**, 174, 579-614	10.6	191
217	Reactor technologies for biodiesel production and processing: A review. *Progress in Energy and Combustion Science*, **2019**, 74, 239-303	33.6	188
216	Electricity generation and GHG emission reduction potentials through different municipal solid waste management technologies: A comparative review. *Renewable and Sustainable Energy Reviews* , **2017**, 79, 414-439	16.2	161
215	A review on exergy analysis of drying processes and systems. *Renewable and Sustainable Energy Reviews*, **2013**, 22, 1-22	16.2	145
214	A critical review of the effects of pretreatment methods on the exergetic aspects of lignocellulosic biofuels. *Energy Conversion and Management*, **2020**, 212, 112792	10.6	142
213	Exergy analysis of a lignocellulosic-based biorefinery annexed to a sugarcane mill for simultaneous lactic acid and electricity production. *Energy*, **2018**, 149, 623-638	7.9	129
212	Influence of Wall Material and Inlet Drying Air Temperature on the Microencapsulation of Fish Oil by Spray Drying. *Food and Bioprocess Technology*, **2013**, 6, 1561-1569	5.1	123
211	Application of Artificial Neural Networks (ANNs) in Drying Technology: A Comprehensive Review. *Drying Technology*, **2015**, 33, 1397-1462	2.6	119
210	Exergoeconomic analysis of a DI diesel engine fueled with diesel/biodiesel (B5) emulsions containing aqueous nano cerium oxide. *Energy*, **2018**, 149, 967-978	7.9	113
209	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	10.6	113
208	Neat diesel beats waste-oriented biodiesel from the exergoeconomic and exergoenvironmental point of views. *Energy Conversion and Management*, **2017**, 148, 1-15	10.6	112
207	A comprehensive review on recent biological innovations to improve biogas production, Part 1: Upstream strategies. *Renewable Energy*, **2020**, 146, 1204-1220	8.1	112
206	Energy and exergy analyses of the spray drying process of fish oil microencapsulation. *Biosystems Engineering*, **2012**, 111, 229-241	4.8	110

205	Microencapsulation of walnut oil by spray drying: Effects of wall material and drying conditions on physicochemical properties of microcapsules. *Innovative Food Science and Emerging Technologies*, **2017**, 39, 101-112	6.8	106
204	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	7.1	105
203	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	10.6	103
202	Comprehensive exergoeconomic analysis of a municipal solid waste digestion plant equipped with a biogas genset. *Waste Management*, **2019**, 87, 485-498	8.6	99
201	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	10.6	97
200	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. *Journal of Cleaner Production*, **2020**, 270, 122462	10.3	97
199	Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110148	16.2	96
198	Rice bran oil-based biodiesel as a promising renewable fuel alternative to petrodiesel: A review. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110204	16.2	94
197	Three pillars of sustainability in the wake of COVID-19: A systematic review and future research agenda for sustainable development. *Journal of Cleaner Production*, **2021**, 297, 126660	10.3	89
196	Biopower and biofertilizer production from organic municipal solid waste: An exergoenvironmental analysis. *Renewable Energy*, **2019**, 143, 64-76	8.1	86
195	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	16.2	86
194	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	7.1	85
193	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	7.1	85
192	A comprehensive review on recent biological innovations to improve biogas production, Part 2: Mainstream and downstream strategies. *Renewable Energy*, **2020**, 146, 1392-1407	8.1	85
191	Machine learning technology in biodiesel research: A review. *Progress in Energy and Combustion Science*, **2021**, 85, 100904	33.6	84
190	Engineered biochar via microwave CO and steam pyrolysis to treat carcinogenic Congo red dye. *Journal of Hazardous Materials*, **2020**, 395, 122636	12.8	83
189	Environmental life cycle assessment of different biorefinery platforms valorizing municipal solid waste to bioenergy, microbial protein, lactic and succinic acid. *Renewable and Sustainable Energy Reviews*, **2020**, 117, 109493	16.2	82
188	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	8.1	81

187	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	7.9	79
186	Energy and Exergy Analyses of Thin-Layer Drying of Potato Slices in a Semi-Industrial Continuous Band Dryer. *Drying Technology*, **2008**, 26, 1501-1508	2.6	78
185	The correlation of wall material composition with flow characteristics and encapsulation behavior of fish oil emulsion. *Food Research International*, **2012**, 49, 379-388	7	76
184	Thermodynamic analysis of fluidized bed drying of carrot cubes. *Energy*, **2010**, 35, 4679-4684	7.9	75
183	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	10.6	74
182	Exergoenvironmental analysis of bioenergy systems: A comprehensive review. *Renewable and Sustainable Energy Reviews*, **2021**, 149, 111399	16.2	74
181	Continuous real-time monitoring and neural network modeling of apple slices color changes during hot air drying. *Food and Bioproducts Processing*, **2015**, 94, 263-274	4.9	73
180	Biogas production from food wastes: A review on recent developments and future perspectives. *Bioresource Technology Reports*, **2019**, 7, 100202	4.1	72
179	Optimization of emulsification procedure for mutual maximizing the encapsulation and exergy efficiencies of fish oil microencapsulation. *Powder Technology*, **2012**, 225, 107-117	5.2	70
178	A state-of-the-art review on the application of nanomaterials for enhancing biogas production. *Journal of Environmental Management*, **2019**, 251, 109597	7.9	68
177	Application of computer vision technique for on-line monitoring of shrimp color changes during drying. *Journal of Food Engineering*, **2013**, 115, 99-114	6	67
176	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110033	16.2	67
175	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	16.2	64
174	Exergoeconoenvironmental analysis as a new concept for developing thermodynamically, economically, and environmentally sound energy conversion systems. *Journal of Cleaner Production* , **2018**, 187, 190-204	10.3	63
173	Modeling of thin-layer drying of potato slices in length of continuous band dryer. *Energy Conversion and Management*, **2009**, 50, 1348-1355	10.6	63
172	Performance assessment of a wind power plant using standard exergy and extended exergy accounting (EEA) approaches. *Journal of Cleaner Production*, **2018**, 171, 127-136	10.3	62
171	Optimization of an artificial neural network topology using coupled response surface methodology and genetic algorithm for fluidized bed drying. *Computers and Electronics in Agriculture*, **2011**, 75, 84-91	6.5	61
170	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	10.6	60

169	Consolidating exergoeconomic and exergoenvironmental analyses using the emergy concept for better understanding energy conversion systems. *Journal of Cleaner Production*, **2018**, 172, 696-708	10.3	60
168	Exergoeconomic and exergoenvironmental co-optimization of continuous fuel additives (acetins) synthesis from glycerol esterification with acetic acid using Amberlyst 36 catalyst. *Energy Conversion and Management*, **2018**, 165, 183-194	10.6	57
167	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	8.1	56
166	The use of artificial neural network to predict exergetic performance of spray drying process: A preliminary study. *Computers and Electronics in Agriculture*, **2012**, 88, 32-43	6.5	53
165	Exergetic performance assessment of plug flow fluidised bed drying process of rough rice. *International Journal of Exergy*, **2013**, 13, 387	1.2	53
164	Performance analysis of drying of carrot slices in a semi-industrial continuous band dryer. *Journal of Food Engineering*, **2009**, 91, 99-108	6	53
163	Design of an integrated process for simultaneous chemical looping hydrogen production and electricity generation with CO 2 capture. *International Journal of Hydrogen Energy*, **2017**, 42, 8486-8496	6.7	52
162	Comprehensive exergy analysis of an industrial-scale yogurt production plant. *Energy*, **2015**, 93, 1832-1851	7.9	51
161	Exergy-based sustainability analysis of a low power, high frequency piezo-based ultrasound reactor for rapid biodiesel production. *Energy Conversion and Management*, **2017**, 148, 759-769	10.6	50
160	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	16.2	48
159	Exergy-based sustainability analysis of acetins synthesis through continuous esterification of glycerol in acetic acid using Amberlyst 36 as catalyst. *Journal of Cleaner Production*, **2018**, 183, 1265-1275	10.3	48
158	Recent updates on the production and upgrading of bio-crude oil from microalgae. *Bioresource Technology Reports*, **2019**, 7, 100216	4.1	46
157	Prognostication of lignocellulosic biomass pyrolysis behavior using ANFIS model tuned by PSO algorithm. *Fuel*, **2019**, 253, 189-198	7.1	46
156	Improving exergetic performance parameters of a rotating-tray air dryer via a simple heat exchanger. *Applied Thermal Engineering*, **2016**, 94, 13-23	5.8	45
155	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. *Energy*, **2016**, 94, 443-456	7.9	45
154	Electronic nose and electronic mucosa as innovative instruments for real-time monitoring of food dryers. *Trends in Food Science and Technology*, **2014**, 38, 158-166	15.3	44
153	Support vector machine-based exergetic modelling of a DI diesel engine running on biodiesel diesel blends containing expanded polystyrene. *Applied Thermal Engineering*, **2016**, 94, 727-747	5.8	43
152	Fish oil microencapsulation as influenced by spray dryer operational variables. *International Journal of Food Science and Technology*, **2013**, 48, 1707-1713	3.8	43

151	Environmental impact assessment of the mechanical shaft work produced in a diesel engine running on diesel/biodiesel blends containing glycerol-derived triacetin. *Journal of Cleaner Production*, **2019**, 223, 466-486	10.3	42
150	Measurement Techniques to Monitor and Control Fluidization Quality in Fluidized Bed Dryers: A Review. *Drying Technology*, **2014**, 32, 1005-1051	2.6	42
149	Exergoeconomic analysis of lactic acid and power cogeneration from sugarcane residues through a biorefinery approach. *Renewable Energy*, **2019**, 143, 872-889	8.1	40
148	Techno-economic aspects of a safflower-based biorefinery plant co-producing bioethanol and biodiesel. *Energy Conversion and Management*, **2019**, 201, 112184	10.6	40
147	Shifting fuel feedstock from oil wells to sea: Iran outlook and potential for biofuel production from brown macroalgae (ochrophyta; phaeophyceae). *Renewable and Sustainable Energy Reviews*, **2019**, 112, 626-642	16.2	39
146	Prediction of Energy and Exergy of Carrot Cubes in a Fluidized Bed Dryer by Artificial Neural Networks. *Drying Technology*, **2011**, 29, 295-307	2.6	39
145	Estimation of biomass higher heating value (HHV) based on the proximate analysis by using iterative neural network-adapted partial least squares (INNPLS). *Energy*, **2017**, 138, 473-479	7.9	38
144	Biodiesel: hopes and dreads. *Biofuel Research Journal*, **2016**, 3, 379-379	13.9	38
143	Exergetic performance analysis of an ice-cream manufacturing plant: A comprehensive survey. *Energy*, **2017**, 123, 445-459	7.9	37
142	Exergetic, exergoeconomic, and exergoenvironmental aspects of an industrial-scale molasses-based ethanol production plant. *Energy Conversion and Management*, **2021**, 227, 113637	10.6	37
141	Computer vision technology for real-time food quality assurance during drying process. *Trends in Food Science and Technology*, **2014**, 39, 76-84	15.3	36
140	Exergetic performance assessment of a long-life milk processing plant: a comprehensive survey. *Journal of Cleaner Production*, **2017**, 140, 590-607	10.3	35
139	Pistachio (Pistachia vera) wastes valorization: Enhancement of biodiesel oxidation stability using hull extracts of different varieties. *Journal of Cleaner Production*, **2018**, 185, 852-859	10.3	34
138	Optimization of an Artificial Neural Network Topology for Predicting Drying Kinetics of Carrot Cubes Using Combined Response Surface and Genetic Algorithm. *Drying Technology*, **2011**, 29, 770-779	2.6	34
137	Influence of spray dryer parameters on exergetic performance of microencapsulation processs. *International Journal of Exergy*, **2012**, 10, 267	1.2	33
136	Exergy-based sustainability assessment of continuous photobiological hydrogen production using anaerobic bacterium Rhodospirillum rubrum. *Journal of Cleaner Production*, **2016**, 139, 157-166	10.3	33
135	Valorization of municipal wastes using co-pyrolysis for green energy production, energy security, and environmental sustainability: A review. *Chemical Engineering Journal*, **2021**, 421, 129749	14.7	33
134	Exergy-based optimization of a continuous reactor applied to produce value-added chemicals from glycerol through esterification with acetic acid. *Energy*, **2018**, 150, 351-362	7.9	31

133	Exergy-based sustainability assessment of ethanol production via Mucor indicus from fructose, glucose, sucrose, and molasses. *Energy*, **2016**, 98, 240-252	7.9	31
132	DRYING AND REHYDRATION CHARACTERISTICS OF SOUR CHERRY (PRUNUS CERASUS L.). *Journal of Food Processing and Preservation*, **2009**, 34, 351-365	2.1	31
131	Environmental life cycle assessment of different biorefinery platforms valorizing olive wastes to biofuel, phosphate salts, natural antioxidant, and an oxygenated fuel additive (triacetin). *Journal of Cleaner Production*, **2021**, 278, 123916	10.3	31
130	On the exergetic optimization of solketalacetin synthesis as a green fuel additive through ketalization of glycerol-derived monoacetin with acetone. *Renewable Energy*, **2018**, 126, 242-253	8.1	30
129	A review of the effect of biodiesel on the corrosion behavior of metals/alloys in diesel engines. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2020**, 42, 2923-2943	1.6	30
128	Comprehensive exergy analysis of a commercial tomato paste plant with a double-effect evaporator. *Energy*, **2016**, 111, 910-922	7.9	29
127	Exergy analysis for decision making on operational condition of a continuous photobioreactor for hydrogen production via WGS reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 2354-2366	6.7	29
126	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. *Energy Conversion and Management*, **2020**, 203, 112245	10.6	29
125	Life cycle assessment analysis of an ultrasound-assisted system converting waste cooking oil into biodiesel. *Renewable Energy*, **2020**, 151, 1352-1364	8.1	29
124	Exergetic simulation of a combined infrared-convective drying process. *Heat and Mass Transfer*, **2016**, 52, 829-844	2.2	28
123	Sustainability evaluation of pasteurized milk production with a life cycle assessment approach: An Iranian case study. *Science of the Total Environment*, **2016**, 562, 614-627	10.2	28
122	Potential of Acid-Activated Bentonite and SO3H-Functionalized MWCNTs for Biodiesel Production From Residual Olive Oil Under Biorefinery Scheme. *Frontiers in Energy Research*, **2018**, 6,	3.8	28
121	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	10.3	28
120	Techno-economic comparison of three biodiesel production scenarios enhanced by glycerol supercritical water reforming process. *International Journal of Hydrogen Energy*, **2019**, 44, 17845-17862	6.7	27
119	Advancement in valorization technologies to improve utilization of bio-based waste in bioeconomy context. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 109965	16.2	27
118	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). *Fuel*, **2018**, 222, 1-10	7.1	27
117	Emissions from urban bus fleets running on biodiesel blends under real-world operating conditions: Implications for designing future case studies. *Renewable and Sustainable Energy Reviews*, **2019**, 111, 276-292	16.2	26
116	Exergy analysis of biohydrogen production from various carbon sources via anaerobic photosynthetic bacteria (Rhodospirillum rubrum). *Energy*, **2015**, 93, 730-739	7.9	26

115	Progress toward improving ethanol production through decreased glycerol generation in Saccharomyces cerevisiae by metabolic and genetic engineering approaches. *Renewable and Sustainable Energy Reviews*, **2019**, 115, 109353	16.2	25
114	Exergy-based performance analysis of a continuous stirred bioreactor for ethanol and acetate fermentation from syngas via Wood□jungdahl pathway. *Chemical Engineering Science*, **2016**, 143, 36-46	4.4	25
113	Integrated optimization of fish oil microencapsulation process by spray drying. *Journal of Microencapsulation*, **2012**, 29, 790-804	3.4	25
112	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. *Energy*, **2019**, 168, 1128-1137	7.9	25
111	Applications of Nanotechnology and Carbon Nanoparticles in Agriculture **2019**, 247-277		25
110	Anaerobic co-digestion of sewage sludge and slaughterhouse waste in existing wastewater digesters. *Renewable Energy*, **2020**, 145, 2503-2509	8.1	25
109	Exergy analysis of a whole-crop safflower biorefinery: A step towards reducing agricultural wastes in a sustainable manner. *Journal of Environmental Management*, **2021**, 279, 111822	7.9	25
108	Multi-objective exergoeconomic and exergoenvironmental optimization of continuous synthesis of solketal through glycerol ketalization with acetone in the presence of ethanol as co-solvent. *Renewable Energy*, **2019**, 130, 735-748	8.1	24
107	Soft computing-based modeling and emission control/reduction of a diesel engine fueled with carbon nanoparticle-dosed water/diesel ?emulsion fuel. *Journal of Hazardous Materials*, **2021**, 407, 124369	12.8	24
106	Multi-objective exergy-based optimization of continuous glycerol ketalization to synthesize solketal as a biodiesel additive in subcritical acetone. *Energy Conversion and Management*, **2018**, 160, 251-261	10.6	23
105	Operational modifications of a full-scale experimental vertical flow constructed wetland with effluent recirculation to optimize total nitrogen removal. *Journal of Cleaner Production*, **2021**, 296, 126558	10.3	23
104	Enhanced power generation and desalination rate in a novel quadruple microbial desalination cell with a single desalination chamber. *Renewable and Sustainable Energy Reviews*, **2020**, 127, 109855	16.2	22
103	Exergy analysis of an industrial-scale ultrafiltrated (UF) cheese production plant: a detailed survey. *Heat and Mass Transfer*, **2017**, 53, 407-424	2.2	21
102	Prediction of carrot cubes drying kinetics during fluidized bed drying by artificial neural network. *Journal of Food Science and Technology*, **2011**, 48, 542-50	3.3	21
101	Thermodynamic evaluation of a photobioreactor for hydrogen production from syngas via a locally isolated Rhodopseudomonas palustris PT. *International Journal of Hydrogen Energy*, **2015**, 40, 14246-14256	6.7	20
100	On the exergetic optimization of continuous photobiological hydrogen production using hybrid ANFIS□NSGA-II (adaptive neuro-fuzzy inference system□on-dominated sorting genetic algorithm-II). *Energy*, **2016**, 96, 507-520	7.9	20
99	Enhancing the exergetic performance of a pilot-scale convective dryer by exhaust air recirculation. *Drying Technology*, **2020**, 38, 518-533	2.6	20
98	Multi-objective exergy-based optimization of a continuous photobioreactor applied to produce hydrogen using a novel combination of soft computing techniques. *International Journal of Hydrogen Energy*, **2017**, 42, 8518-8529	6.7	19

97	Consolidating emission indices of a diesel engine powered by carbon nanoparticle-doped diesel/biodiesel emulsion fuels using life cycle assessment framework. *Fuel*, **2020**, 267, 117296	7.1	19
96	Using exergy to analyse the sustainability of fermentative ethanol and acetate production from syngas via anaerobic bacteria (Clostridium ljungdahlii). *Sustainable Energy Technologies and Assessments*, **2016**, 15, 11-19	4.7	19
95	Multi-objective exergetic optimization of continuous photo-biohydrogen production process using a novel hybrid fuzzy clustering-ranking approach coupled with Radial Basis Function (RBF) neural network. *International Journal of Hydrogen Energy*, **2016**, 41, 18418-18430	6.7	18
94	Sustainability assessment of photobiological hydrogen production using anaerobic bacteria (Rhodospirillum rubrum) via exergy concept: Effect of substrate concentrations. *Environmental Progress and Sustainable Energy*, **2016**, 35, 1166-1176	2.5	18
93	Describing biomass pyrolysis kinetics using a generic hybrid intelligent model: A critical stage in sustainable waste-oriented biorefineries. *Renewable Energy*, **2021**, 170, 81-91	8.1	18
92	Mapping healthcare waste management research: Past evolution, current challenges, and future perspectives towards a circular economy transition. *Journal of Hazardous Materials*, **2022**, 422, 126724	12.8	18
91	Modeling and Simulation of Deep-Bed Solar Greenhouse Drying of Chamomile Flowers. *Drying Technology*, **2015**, 33, 684-695	2.6	17
90	Enhanced oil recovery and lignocellulosic quality from oil palm biomass using combined pretreatment with compressed water and steam. *Journal of Cleaner Production*, **2017**, 142, 3834-3849	10.3	17
89	Development and evaluation of a novel low power, high frequency piezoelectric-based ultrasonic reactor for intensifying the transesterification reaction. *Biofuel Research Journal*, **2016**, 3, 528-535	13.9	17
88	Unlocking the potential of walnut husk extract in the production of waste cooking oil-based biodiesel. *Renewable and Sustainable Energy Reviews*, **2020**, 119, 109588	16.2	17
87	Drying behavior and locking point of single droplets containing functional oil. *Advanced Powder Technology*, **2016**, 27, 1750-1760	4.6	16
86	A novel image processing approach for in-line monitoring of visual texture during shrimp drying. *Journal of Food Engineering*, **2014**, 143, 154-166	6	16
85	The effects of nanoadditives on the performance and emission characteristics of spark-ignition gasoline engines: A critical review with a focus on health impacts. *Energy*, **2021**, 225, 120259	7.9	16
84	Exergy Analysis as a Tool for Decision Making on Substrate Concentration and Light Intensity in Photobiological Hydrogen Production. *Energy Technology*, **2016**, 4, 429-440	3.5	16
83	Towards upscaling microbial desalination cell technology: A comprehensive review on current challenges and future prospects. *Journal of Cleaner Production*, **2021**, 288, 125597	10.3	16
82	An artificial neural network for predicting the physiochemical properties of fish oil microcapsules obtained by spray drying. *Food Science and Biotechnology*, **2013**, 22, 677-685	3	15
81	Application of exergy analysis to the dairy industry: A case study of yogurt drink production plant. *Food and Bioproducts Processing*, **2017**, 101, 118-131	4.9	15
80	Energy flow modeling and life cycle assessment of apple juice production: Recommendations for renewable energies implementation and climate change mitigation. *Journal of Cleaner Production*, **2020**, 246, 118997	10.3	15

79	Energy saving in a convective dryer by using novel real-time exergy-based control schemes adjusting exhaust air recirculation. *Journal of Cleaner Production*, **2020**, 257, 120394	10.3	14
78	An exergetically-sustainable operational condition of a photo-biohydrogen production system optimized using conventional and innovative fuzzy techniques. *Renewable Energy*, **2016**, 94, 605-618	8.1	14
77	Performance analysis of a continuous bioreactor for ethanol and acetate synthesis from syngas via Clostridium ljungdahlii using exergy concept. *Clean Technologies and Environmental Policy*, **2016**, 18, 853-865	4.3	14
76	Computer Vision System (CVS) for In-Line Monitoring of Visual Texture Kinetics During Shrimp (Penaeus Spp.) Drying. *Drying Technology*, **2015**, 33, 238-254	2.6	13
75	Modeling of a single cell micro proton exchange membrane fuel cell by a new hybrid neural network method. *Thermal Science and Engineering Progress*, **2018**, 7, 8-19	3.6	12
74	EVALUATION OF THIN-LAYER DRYING MODELS FOR DESCRIBING DRYING KINETICS OF BARBERRIES (BARBERRIES VULGARIS). *Journal of Food Process Engineering*, **2009**, 32, 278-293	2.4	12
73	Metabolic Engineering of Microalgae for Biofuel Production. *Methods in Molecular Biology*, **2020**, 1980, 153-172	1.4	11
72	Effect of phosphate concentration on exergetic-based sustainability parameters of glucose fermentation by Ethanolic Mucor indicus. *Sustainable Production and Consumption*, **2017**, 9, 28-36	8.2	11
71	Managing the hazardous waste cooking oil by conversion into bioenergy through the application of waste-derived green catalysts: A review. *Journal of Hazardous Materials*, **2021**, 424, 127636	12.8	11
70	Towards smart cities powered by nanogenerators: Bibliometric and machine learning-based analysis. *Nano Energy*, **2021**, 83, 105844	17.1	11
69	An intelligent machine vision-based smartphone app for beef quality evaluation. *Journal of Food Engineering*, **2019**, 248, 9-22	6	11
68	Safflower-based biorefinery producing a broad spectrum of biofuels and biochemicals: A life cycle assessment perspective. *Science of the Total Environment*, **2022**, 802, 149842	10.2	11
67	Effect of substituting organic fraction of municipal solid waste with fruit and vegetable wastes on anaerobic digestion. *Journal of Material Cycles and Waste Management*, **2019**, 21, 1321-1331	3.4	10
66	Modeling of Thin-Layer Drying of Apple Slices in a Semi-Industrial Continuous Band Dryer. *International Journal of Food Engineering*, **2010**, 6,	1.9	10
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