Mortaza Aghbashlo

List of Publications by Year in Descending Order

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	Efficient ethanol production from rice straw through cellulose restructuring and high solids loading fermentation by Mucor indicus. *Journal of Cleaner Production*, **2022**, 339, 130702	10.3	0
221	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions.. *Bioresource Technology*, **2022**, 347, 126687	11	1
220	Bioethanol production from food wastes rich in carbohydrates. *Current Opinion in Food Science*, **2022**, 43, 71-81	9.8	10
219	Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. *Renewable and Sustainable Energy Reviews*, **2022**, 156, 111975	16.2	10
218	Engineered biochar produced through microwave pyrolysis as a fuel additive in biodiesel combustion. *Fuel*, **2022**, 312, 122839	7.1	2
217	Engineered bacteria for valorizing lignocellulosic biomass into bioethanol. *Bioresource Technology*, **2022**, 344, 126212	11	5
216	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
215	A comparative study on physicochemical properties, pyrolytic behaviour and kinetic parameters of environmentally harmful aquatic weeds for sustainable shellfish aquaculture. *Journal of Hazardous Materials*, **2022**, 424, 127329	12.8	1
214	Exergy, economic, and environmental assessment of ethanol dehydration to diesel fuel additive diethyl ether. *Fuel*, **2022**, 308, 121918	7.1	5
213	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
212	Production of value-added hydrochar from single-mode microwave hydrothermal carbonization of oil palm waste for de-chlorination of domestic water.. *Science of the Total Environment*, **2022**, 154968	10.2	0
211	Biofuel supply chain management in the circular economy transition: An inclusive knowledge map of the field.. *Chemosphere*, **2022**, 296, 133968	8.4	2
210	Biomass and organic waste potentials towards implementing circular bioeconomy platforms: A systematic bibliometric analysis. *Fuel*, **2022**, 318, 123585	7.1	7
209	Environmental life cycle assessment of biodiesel production from waste cooking oil: A systematic review. *Renewable and Sustainable Energy Reviews*, **2022**, 161, 112411	16.2	3
208	A comprehensive review on anaerobic fungi applications in biofuels production.. *Science of the Total Environment*, **2022**, 154521	10.2	2
207	Biodiesel antioxidants and their impact on the behavior of diesel engines: A comprehensive review. *Fuel Processing Technology*, **2022**, 232, 107264	7.2	6
206	Sustainable management of municipal solid waste through waste-to-energy technologies.. *Bioresource Technology*, **2022**, 355, 127247	11	3

205	Exergetic sustainability evaluation of horse manure biomass valorization by microwave pyrolysis. *Fuel*, **2022**, 323, 124286	7.1	0
204	Machine learning predicts and optimizes hydrothermal liquefaction of biomass. *Chemical Engineering Journal*, **2022**, 445, 136579	14.7	1
203	To what extent do waste management strategies need adaptation to post-COVID-19?. *Science of the Total Environment*, **2022**, 837, 155829	10.2	2
202	Production of biochar using sustainable microwave pyrolysis approach **2022**, 323-332		
201	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. *Chemosphere*, **2021**, 291, 133036	8.4	1
200	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
199	Life cycle assessment of bioenergy product systems: a critical review. *E-Prime*, **2021**, 1, 100015		3
198	A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. *Chemosphere*, **2021**, 288, 132559	8.4	9
197	Towards smart cities powered by nanogenerators: Bibliometric and machine learning-based analysis. *Nano Energy*, **2021**, 83, 105844	17.1	11
196	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
195	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
194	Oncolytic viruses as a promising therapeutic strategy against the detrimental health impacts of air pollution: The case of glioblastoma multiforme. *Seminars in Cancer Biology*, **2021**,	12.7	1
193	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
192	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
191	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. *Fuel*, **2021**, 294, 120246	7.1	6
190	Machine learning technology in biodiesel research: A review. *Progress in Energy and Combustion Science*, **2021**, 85, 100904	33.6	84
189	Seed oils of Sisymbrium irio and Sisymbrium sophia as a potential non-edible feedstock for biodiesel production. *Biofuels*, **2021**, 12, 103-111	2	7
188	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

187	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
186	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
185	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
184	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110033	16.2	67
183	Exergetic, exergoeconomic, and exergoenvironmental aspects of an industrial-scale molasses-based ethanol production plant. *Energy Conversion and Management*, **2021**, 227, 113637	10.6	37
182	Recent advances in asphaltene transformation in heavy oil hydroprocessing: Progress, challenges, and future perspectives. *Fuel Processing Technology*, **2021**, 213, 106681	7.2	8
181	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
180	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
179	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
178	Emerging challenges of air pollution and particulate matter in China, India, and Pakistan and mitigating solutions. *Journal of Hazardous Materials*, **2021**, 416, 125851	12.8	10
177	Exergetic, economic, and environmental life cycle assessment analyses of a heavy-duty tractor diesel engine fueled with dieselBiodiesel-bioethanol blends. *Energy Conversion and Management*, **2021**, 241, 114300	10.6	9
176	Improving sustainability and mitigating environmental impacts of agro-biowaste compost fertilizer by pelletizing-drying. *Environmental Pollution*, **2021**, 285, 117412	9.3	5
175	Sustainability assessment of sugarcane residues valorization to biobutadiene by exergy and exergoeconomic evaluation. *Renewable and Sustainable Energy Reviews*, **2021**, 147, 111214	16.2	6
174	Exergy intensity and environmental consequences of the medical face masks curtailing the COVID-19 pandemic: Malign bodyguard?. *Journal of Cleaner Production*, **2021**, 313, 127880	10.3	7
173	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
172	Net-zero exergoeconomic and exergoenvironmental building as new concepts for developing sustainable built environments. *Energy Conversion and Management*, **2021**, 244, 114418	10.6	9
171	Exergoenvironmental analysis of bioenergy systems: A comprehensive review. *Renewable and Sustainable Energy Reviews*, **2021**, 149, 111399	16.2	74
170	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

169	Exergetic performance evaluation of a diesel engine powered by diesel/biodiesel mixtures containing oxygenated additive ethylene glycol diacetate. *Science of the Total Environment*, **2021**, 792, 148435	10.2	4
168	Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. *Renewable and Sustainable Energy Reviews*, **2021**, 151, 111645	16.2	5
167	Metabolic Engineering of Microalgae for Biofuel Production. *Methods in Molecular Biology*, **2020**, 1980, 153-172	1.4	11
166	Life-Cycle Assessment (LCA) Analysis of Algal Fuels. *Methods in Molecular Biology*, **2020**, 1980, 121-151	1.4	0
165	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. *Journal of Cleaner Production*, **2020**, 270, 122462	10.3	97
164	Integrated sustainability analysis of combustion engines (ISACE) as an alternative to classical combustion analysis. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 109981	16.2	5
163	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
162	A new systematic decision support framework based on solar extended exergy accounting performance to prioritize photovoltaic sites. *Journal of Cleaner Production*, **2020**, 256, 120356	10.3	6
161	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
160	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
159	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
158	Determining key issues in life-cycle assessment of waste biorefineries **2020**, 515-555		2
157	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
156	Fungal Biocontrol Agents as a New Source for Bioethanol Production. *Fungal Biology*, **2020**, 69-104	2.3	1
155	Bioethanol Production by Using Plant-Pathogenic Fungi. *Fungal Biology*, **2020**, 15-38	2.3	2
154	Fungi as Bioreactors for Biodiesel Production. *Fungal Biology*, **2020**, 39-67	2.3	2
153	Anaerobic Rumen Fungi for Biofuel Production. *Fungal Biology*, **2020**, 149-175	2.3	3
152	The critical role of advanced sustainability assessment tools in enhancing the real-world application of biofuels. *Acta Innovations*, **2020**, 67-73	1.1	4

151	Life Cycle Analysis for Biodiesel Production from Oleaginous Fungi. *Fungal Biology*, **2020**, 199-225	2.3	1
150	Algae-Powered Buildings: A Strategy to Mitigate Climate Change and Move Toward Circular Economy. *Modeling and Optimization in Science and Technologies*, **2020**, 353-365	0.6	1
149	Biofuels: Types, Promises, Challenges, and Role of Fungi. *Fungal Biology*, **2020**, 1-14	2.3	3
148	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
147	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
146	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
145	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. *Data in Brief*, **2020**, 28, 104933	1.2	1
144	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
143	Life cycle assessment analysis of an ultrasound-assisted system converting waste cooking oil into biodiesel. *Renewable Energy*, **2020**, 151, 1352-1364	8.1	29
142	Determining biomass chemical exergy using a novel hybrid intelligent approach to promote biomass-based biorefineries. *Journal of Cleaner Production*, **2020**, 277, 124089	10.3	8
141	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
140	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
139	Enhancing the exergetic performance of a pilot-scale convective dryer by exhaust air recirculation. *Drying Technology*, **2020**, 38, 518-533	2.6	20
138	Exergy analysis of a pistachio roasting system. *Drying Technology*, **2020**, 38, 1565-1583	2.6	9
137	Anaerobic co-digestion of sewage sludge and slaughterhouse waste in existing wastewater digesters. *Renewable Energy*, **2020**, 145, 2503-2509	8.1	25
136	A comprehensive review on recent biological innovations to improve biogas production, Part 1: Upstream strategies. *Renewable Energy*, **2020**, 146, 1204-1220	8.1	112
135	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
134	Data supporting consolidating emission indices of a diesel engine powered by carbon nanoparticle-doped diesel/biodiesel emulsion fuels using life cycle assessment framework. *Data in Brief*, **2020**, 30, 105428	1.2	6

133	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
132	Engineered biochar via microwave CO and steam pyrolysis to treat carcinogenic Congo red dye. *Journal of Hazardous Materials*, **2020**, 395, 122636	12.8	83
131	Multivariable optimization of carbon nanoparticles synthesized from waste facial tissues by artificial neural networks, new material for downstream quenching of quantum dots. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 3156-3165	2.1	9
130	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
129	Spatio-temporal solar exergoeconomic and exergoenvironmental maps for photovoltaic systems. *Energy Conversion and Management*, **2019**, 195, 701-711	10.6	6
128	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
127	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
126	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
125	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
124	Exergoeconomic analysis of lactic acid and power cogeneration from sugarcane residues through a biorefinery approach. *Renewable Energy*, **2019**, 143, 872-889	8.1	40
123	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
122	Recent updates on the production and upgrading of bio-crude oil from microalgae. *Bioresource Technology Reports*, **2019**, 7, 100216	4.1	46
121	Prognostication of lignocellulosic biomass pyrolysis behavior using ANFIS model tuned by PSO algorithm. *Fuel*, **2019**, 253, 189-198	7.1	46
120	Biopower and biofertilizer production from organic municipal solid waste: An exergoenvironmental analysis. *Renewable Energy*, **2019**, 143, 64-76	8.1	86
119	Towards a better understanding of energy systems using emergy-based exergoeconoenvironmental analysis. *International Journal of Exergy*, **2019**, 28, 209	1.2	4
118	Biogas production from food wastes: A review on recent developments and future perspectives. *Bioresource Technology Reports*, **2019**, 7, 100202	4.1	72
117	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
116	Comprehensive exergoeconomic analysis of a municipal solid waste digestion plant equipped with a biogas genset. *Waste Management*, **2019**, 87, 485-498	8.6	99

115	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
114	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
113	Reactor technologies for biodiesel production and processing: A review. *Progress in Energy and Combustion Science*, **2019**, 74, 239-303	33.6	188
112	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
111	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
110	Techno-economic aspects of a safflower-based biorefinery plant co-producing bioethanol and biodiesel. *Energy Conversion and Management*, **2019**, 201, 112184	10.6	40
109	An intelligent machine vision-based smartphone app for beef quality evaluation. *Journal of Food Engineering*, **2019**, 248, 9-22	6	11
108	Biodiesel Production and Consumption: Life Cycle Assessment (LCA) Approach. *Biofuel and Biorefinery Technologies*, **2019**, 161-192	1	3
107	Exergy-Based Sustainability Analysis of Biodiesel Production and Combustion Processes. *Biofuel and Biorefinery Technologies*, **2019**, 193-217	1	4
106	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
105	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
104	Applications of Nanotechnology and Carbon Nanoparticles in Agriculture **2019**, 247-277		25
103	Optimization of continuous glycerol esterification with acetic acid based on exergoeconomic and exergoenvironmental approaches. *Sustainable Production and Consumption*, **2019**, 17, 62-73	8.2	5
102	Recent Patents on Biofuels from Microalgae. *Green Energy and Technology*, **2018**, 291-306	0.6	6
101	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
100	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
99	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
98	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

97	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
96	Waste Management Strategies; the State of the Art. *Biofuel and Biorefinery Technologies*, **2018**, 1-33	1	4
95	Advanced Soft Computing Techniques in Biogas Production Technology. *Biofuel and Biorefinery Technologies*, **2018**, 387-417	1	2
94	Prominent Parameters in Biogas Production Systems. *Biofuel and Biorefinery Technologies*, **2018**, 135-161	1	
93	Biogas Production Systems. *Biofuel and Biorefinery Technologies*, **2018**, 95-116	1	7
92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	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
84	A comprehensive review on the environmental impacts of diesel/biodiesel additives. *Energy Conversion and Management*, **2018**, 174, 579-614	10.6	191
83	Artificial Neural Network-Based Modeling and Controlling of Drying Systems **2018**, 155-172		2
82	Biodiesel from Microalgae. *Energy, Environment, and Sustainability*, **2018**, 277-318	0.8	8
81	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
80	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

79	Exergetic performance assessment of a long-life milk processing plant: a comprehensive survey. *Journal of Cleaner Production*, **2017**, 140, 590-607	10.3	35
78	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
77	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
76	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
75	Exergetic performance analysis of an ice-cream manufacturing plant: A comprehensive survey. *Energy*, **2017**, 123, 445-459	7.9	37
74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	Mathematical modeling of drying behavior of single emulsion droplets containing functional oil. *Food and Bioproducts Processing*, **2017**, 101, 100-109	4.9	9

61	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
60	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
59	Exergetic simulation of a combined infrared-convective drying process. *Heat and Mass Transfer*, **2016**, 52, 829-844	2.2	28
58	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
57	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
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55	Comprehensive exergy analysis of a commercial tomato paste plant with a double-effect evaporator. *Energy*, **2016**, 111, 910-922	7.9	29
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