

Su Shiung Lam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

309
papers

8,173
citations

50
h-index

76
g-index

326
ext. papers

12,193
ext. citations

9.5
avg, IF

7.05
L-index

#	Paper	IF	Citations
309	Optimization of a vertical axis wind turbine with a deflector under unsteady wind conditions via Taguchi and neural network applications. <i>Energy Conversion and Management</i> , 2022 , 254, 115209	10.6	3
308	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	11	1
307	Exogenous application and interaction of biochar with environmental factors for improving functional diversity of rhizosphere microbial community and health.. <i>Chemosphere</i> , 2022 , 133710	8.4	0
306	Esterification/Transesterification of Lipidic Wastes for Biodiesel Production 2022 , 227-273		
305	Emerging chemo-biocatalytic routes for valorization of major greenhouse gases (GHG) into industrial products: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 ,	6.3	4
304	Bioethanol production from food wastes rich in carbohydrates. <i>Current Opinion in Food Science</i> , 2022 , 43, 71-81	9.8	10
303	Sustainable valorization of algae biomass via thermochemical processing route: An overview. <i>Bioresource Technology</i> , 2022 , 344, 126399	11	3
302	Engineered biochar produced through microwave pyrolysis as a fuel additive in biodiesel combustion. <i>Fuel</i> , 2022 , 312, 122839	7.1	2
301	Progress in thermochemical conversion of aquatic weeds in shellfish aquaculture for biofuel generation: Technical and economic perspectives. <i>Bioresource Technology</i> , 2022 , 344, 126202	11	5
300	Engineered bacteria for valorizing lignocellulosic biomass into bioethanol. <i>Bioresource Technology</i> , 2022 , 344, 126212	11	5
299	Peroxymonosulfate activation by a metal-free biochar for sulfonamide antibiotic removal in water and associated bacterial community composition. <i>Bioresource Technology</i> , 2022 , 343, 126082	11	15
298	Generating alternative fuel and bioplastics from medical plastic waste and waste frying oil using microwave co-pyrolysis combined with microbial fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 153, 111790	16.2	2
297	Microplastics and environmental pollutants: Key interaction and toxicology in aquatic and soil environments. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126843	12.8	34
296	Soil carbon supplementation: Improvement of root-surrounding soil bacterial communities, sugar and starch content in tobacco (<i>N. tabacum</i>). <i>Science of the Total Environment</i> , 2022 , 802, 149835	10.2	4
295	A review on recent disposal of hazardous sewage sludge via anaerobic digestion and novel composting. <i>Journal of Hazardous Materials</i> , 2022 , 423, 126995	12.8	13
294	Advanced nanocellulose-based gas barrier materials: Present status and prospects. <i>Chemosphere</i> , 2022 , 286, 131891	8.4	9
293	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	12.8	1

292	Strategic hazard mitigation of waste furniture boards via pyrolysis: Pyrolysis behavior, mechanisms, and value-added products. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126774	12.8	10
291	Exergy, economic, and environmental assessment of ethanol dehydration to diesel fuel additive diethyl ether. <i>Fuel</i> , 2022 , 308, 121918	7.1	5
290	Microwave co-pyrolysis for simultaneous disposal of environmentally hazardous hospital plastic waste, lignocellulosic, and triglyceride biowaste. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127096	12.8	9
289	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	10.2	11
288	Synergistic effects of blending seafood wastes as Co-pyrolysis feedstock on syngas production and biochar properties. <i>Chemical Engineering Journal</i> , 2022 , 429, 132487	14.7	2
287	Progress and prospects in mitigation of landfill leachate pollution: Risk, pollution potential, treatment and challenges. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126627	12.8	20
286	Fungal Fermented Palm Kernel Expeller as Feed for Black Soldier Fly Larvae in Producing Protein and Biodiesel.. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022 , 8,	5.6	1
285	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 , 154968	10.2	0
284	Environmental perspectives of textile waste, environmental pollution and recycling. <i>Environmental Technology Reviews</i> , 2022 , 11, 62-71	7.7	0
283	Biofuel supply chain management in the circular economy transition: An inclusive knowledge map of the field.. <i>Chemosphere</i> , 2022 , 296, 133968	8.4	2
282	Biomass and organic waste potentials towards implementing circular bioeconomy platforms: A systematic bibliometric analysis. <i>Fuel</i> , 2022 , 318, 123585	7.1	7
281	Effects of waste-based pyrolysis as heating source: Meta-analyze of char yield and machine learning analysis. <i>Fuel</i> , 2022 , 318, 123578	7.1	2
280	A comprehensive review on anaerobic fungi applications in biofuels production.. <i>Science of the Total Environment</i> , 2022 , 154521	10.2	2
279	A mechanistic approach for toxicity and risk assessment of heavy metals, hydroquinone and microorganisms in cosmetic creams.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128806	12.8	0
278	Progress in recycling and valorization of waste silk.. <i>Science of the Total Environment</i> , 2022 , 830, 154812	10.2	2
277	A scalable and simple lignin-based polymer for ultra-efficient flocculation and sterilization. <i>Separation and Purification Technology</i> , 2022 , 292, 120960	8.3	0
276	Biodiesel antioxidants and their impact on the behavior of diesel engines: A comprehensive review. <i>Fuel Processing Technology</i> , 2022 , 232, 107264	7.2	6
275	Removal of persistent acetophenone from industrial waste-water via bismuth ferrite nanostructures.. <i>Chemosphere</i> , 2022 , 134750	8.4	2

274	Sustainable management of municipal solid waste through waste-to-energy technologies.. <i>Bioresource Technology</i> , 2022 , 355, 127247	11	3
273	Being applied at rice or wheat season impacts biochar ^B effect on gaseous nitrogen pollutants from the wheat growth cycle.. <i>Environmental Pollution</i> , 2022 , 306, 119409	9.3	2
272	Exergetic sustainability evaluation of horse manure biomass valorization by microwave pyrolysis. <i>Fuel</i> , 2022 , 323, 124286	7.1	0
271	Machine learning predicts and optimizes hydrothermal liquefaction of biomass. <i>Chemical Engineering Journal</i> , 2022 , 445, 136579	14.7	1
270	Production of biochar using sustainable microwave pyrolysis approach 2022 , 323-332		
269	Enzyme mediated transformation of CO ₂ into calcium carbonate using purified microbial carbonic anhydrase. <i>Environmental Research</i> , 2022 , 212, 113538	7.9	1
268	Biocatalytic remediation of pharmaceutically active micropollutants for environmental sustainability. <i>Environmental Pollution</i> , 2021 , 293, 118582	9.3	5
267	How does biochar aging affect NH volatilization and GHGs emissions from agricultural soils?. <i>Environmental Pollution</i> , 2021 , 294, 118598	9.3	7
266	A review on integrated thermochemical hydrogen production from water. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 4346-4346	6.7	5
265	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. <i>Chemosphere</i> , 2021 , 291, 133036	8.4	1
264	Economic and environmental sustainability for anaerobic biological treatment of wastewater from paper and cardboard manufacturing industry. <i>Chemosphere</i> , 2021 , 289, 133166	8.4	2
263	Comparative Fatty Acid Profiling of Edible Fishes in Kuala Terengganu, Malaysia. <i>Foods</i> , 2021 , 10,	4.9	4
262	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> , 2021 , 424, 127636	12.8	11
261	Spent coffee grounds biochar from torrefaction as a potential adsorbent for spilled diesel oil recovery and as an alternative fuel. <i>Energy</i> , 2021 , 122467	7.9	2
260	Perspectives on phytoremediation of zinc pollution in air, water and soil. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 24, 100550	3.9	3
259	A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. <i>Chemosphere</i> , 2021 , 288, 132559	8.4	9
258	Tetracycline removal in granulation: Influence of extracellular polymers substances, structure, and metabolic function of microbial community. <i>Chemosphere</i> , 2021 , 288, 132510	8.4	9
257	Influence of pyrolysis temperature on the characteristics and lead(II) adsorption capacity of phosphorus-engineered poplar sawdust biochar. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 154, 105010	6	8

256	Seize China's momentum to protect pangolins. <i>Science</i> , 2021 , 371, 1214	33.3	4
255	Enzymatic conversion of pretreated lignocellulosic biomass: A review on influence of structural changes of lignin. <i>Bioresource Technology</i> , 2021 , 324, 124631	11	47
254	Evaluation of an Antifouling Surface Inspired by Malaysian Sharks Negaprion Brevirostris and Carcharhinus Leucas Riblets. <i>Tribology Online</i> , 2021 , 16, 70-80	0.9	1
253	A review on the modeling and validation of biomass pyrolysis with a focus on product yield and composition. <i>Biofuel Research Journal</i> , 2021 , 8, 1296-1315	13.9	44
252	Advanced textile technology for fabrication of ramie fiber PLA composites with enhanced mechanical properties. <i>Industrial Crops and Products</i> , 2021 , 162, 113312	5.9	20
251	Semi-batch cultivation of <i>Chlorella sorokiniana</i> AK-1 with dual carriers for the effective treatment of full strength piggery wastewater treatment. <i>Bioresource Technology</i> , 2021 , 326, 124773	11	24
250	Co-Combustion of Blends of Coal and Underutilised Biomass Residues for Environmental Friendly Electrical Energy Production. <i>Sustainability</i> , 2021 , 13, 4881	3.6	4
249	Effective toluene oxidation under ozone over mesoporous MnO _x /Al ₂ O ₃ catalyst prepared by solvent deficient method: Effect of Mn precursors on catalytic activity. <i>Environmental Research</i> , 2021 , 195, 110876	7.9	5
248	Study on the implementation of different biofloc sedimentable solids in improving the water quality and survival rate of mud crab, <i>Scylla paramamosain</i> larvae culture. <i>Aquaculture Research</i> , 2021 , 52, 4807-4815	1.9	
247	Emerging contaminants and biological effects in Arctic wildlife. <i>Trends in Ecology and Evolution</i> , 2021 , 36, 421-429	10.9	8
246	Biodiesel sustainability: The global impact of potential biodiesel production on the energy-water-food (EWF) nexus. <i>Environmental Technology and Innovation</i> , 2021 , 22, 101408	7	13
245	Bamboo grid versus polyvinyl chloride as packing material in cooling tower: Energy efficiency and environmental impact assessment. <i>Journal of Environmental Management</i> , 2021 , 286, 112190	7.9	5
244	Characterization and potential utilization of extracts and pyrolyzates from <i>Jasminum nudiflorum</i> Lindl. Bark. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 155, 105092	6	0
243	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. <i>Chemosphere</i> , 2021 , 271, 129510	8.4	12
242	Bimetallic Ni-Re catalysts for the efficient hydrodeoxygenation of biomass-derived phenols. <i>International Journal of Energy Research</i> , 2021 , 45, 16349-16361	4.5	3
241	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> , 2021 ,	12.7	1
240	A review of dietary phytochemicals and their relation to oxidative stress and human diseases. <i>Chemosphere</i> , 2021 , 271, 129499	8.4	15
239	Biohydrogen synthesis from catalytic steam gasification of furniture waste using nickel catalysts supported on modified CeO ₂ . <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16603-16611	6.7	9

238	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	7.9	16
237	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	8.1	18
236	Analysis of microparticle deposition in the human lung by taguchi method and response surface methodology. <i>Environmental Research</i> , 2021 , 197, 110975	7.9	4
235	Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105204	6.8	13
234	Pareto-hierarchical clustering framework for biodiesel transesterification. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 45, 101160	4.7	
233	Ethylbenzene and toluene interactions with biochar from municipal solid waste in single and dual systems. <i>Environmental Research</i> , 2021 , 197, 111102	7.9	3
232	Piezoelectric PAN/BaTiO ₃ nanofiber membranes sensor for structural health monitoring of real-time damage detection in composite. <i>Composites Communications</i> , 2021 , 25, 100680	6.7	21
231	Ancient oaks of Europe are archives - protect them. <i>Nature</i> , 2021 , 594, 495	50.4	3
230	European eel population at risk of collapse. <i>Science</i> , 2021 , 372, 1271	33.3	1
229	Effective Cu/Re promoted Ni-supported γ -Al ₂ O ₃ catalyst for upgrading algae bio-crude oil produced by hydrothermal liquefaction. <i>Fuel Processing Technology</i> , 2021 , 216, 106670	7.2	11
228	An Overview on the Conversion of Forest Biomass into Bioenergy. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	6
227	Optimization and analysis of syngas production from methane and CO ₂ via Taguchi approach, response surface methodology (RSM) and analysis of variance (ANOVA). <i>Fuel</i> , 2021 , 296, 120642	7.1	7
226	Machine learning technology in biodiesel research: A review. <i>Progress in Energy and Combustion Science</i> , 2021 , 85, 100904	33.6	84
225	Integrated catalytic insights into methanol production: Sustainable framework for CO conversion. <i>Journal of Environmental Management</i> , 2021 , 289, 112468	7.9	13
224	Set sustainable goals for the Arctic gateway coordinated international governance is required to resist yet another tipping point. <i>Science of the Total Environment</i> , 2021 , 776, 146003	10.2	1
223	Performance of platinum doping on spent alkaline battery-based catalyst for complete oxidation of o-xylene. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 24552-24557	5.1	
222	Exploring the linkage between PM levels and COVID-19 spread and its implications for socio-economic circles. <i>Environmental Research</i> , 2021 , 193, 110421	7.9	27
221	Biohydrogen production from catalytic conversion of food waste via steam and air gasification using eggshell- and homo-type Ni/AlO catalysts. <i>Bioresource Technology</i> , 2021 , 320, 124313	11	25

220	A review on phytoremediation of contaminants in air, water and soil. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123658	12.8	78
219	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	16.2	96
218	Sustainable biofuel and bioenergy production from biomass waste residues using microwave-assisted heating: A comprehensive review. <i>Chemical Engineering Journal</i> , 2021 , 403, 126233	14.7	77
217	Biochar for cadmium pollution mitigation and stress resistance in tobacco growth. <i>Environmental Research</i> , 2021 , 192, 110273	7.9	12
216	Prospect of biobased antiviral face mask to limit the coronavirus outbreak. <i>Environmental Research</i> , 2021 , 192, 110294	7.9	42
215	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	10.3	31
214	Mitigation of indoor air pollution: A review of recent advances in adsorption materials and catalytic oxidation. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124138	12.8	33
213	Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production. <i>Bioresource Technology</i> , 2021 , 320, 124299	11	38
212	Hydrogen production and heavy metal immobilization using hyperaccumulators in supercritical water gasification. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123541	12.8	21
211	Iron oxychloride-based heterogeneous Fenton pretreatment of corn stover for enhanced sugars production. <i>Chemical Engineering Journal</i> , 2021 , 416, 127703	14.7	2
210	Exergetic, exergoeconomic, and exergoenvironmental aspects of an industrial-scale molasses-based ethanol production plant. <i>Energy Conversion and Management</i> , 2021 , 227, 113637	10.6	37
209	Linear low-density polyethylene gasification over highly active Ni/CeO ₂ -ZrO ₂ catalyst for enhanced hydrogen generation. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 94, 336-342	6.3	16
208	Natural marble powder-modified SBA-15 as an efficient catalyst for the selective production of 2-methyl-2-pentenal from n-propanal self-aldol condensation. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 94, 448-456	6.3	1
207	Recent advances in asphaltene transformation in heavy oil hydroprocessing: Progress, challenges, and future perspectives. <i>Fuel Processing Technology</i> , 2021 , 213, 106681	7.2	8
206	Phytoremediation of radionuclides in soil, sediments and water. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124771	12.8	21
205	Recycling of aquaculture wastewater and sediment for sustainable corn and water spinach production. <i>Chemosphere</i> , 2021 , 268, 129329	8.4	3
204	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	7.9	25
203	Valorization of Bokashi leachate as feed additive in tilapia farming. <i>Environmental Research</i> , 2021 , 198, 110472	7.9	1

202	Towards upscaling microbial desalination cell technology: A comprehensive review on current challenges and future prospects. <i>Journal of Cleaner Production</i> , 2021 , 288, 125597	10.3	16
201	Production of three-dimensional fiber needle-punching composites from denim waste for utilization as furniture materials. <i>Journal of Cleaner Production</i> , 2021 , 281, 125321	10.3	10
200	Production of high quality biodiesel from novel non-edible <i>Raphnus raphanistrum</i> L. seed oil using copper modified montmorillonite clay catalyst. <i>Environmental Research</i> , 2021 , 193, 110398	7.9	22
199	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	12.8	24
198	Anti-icing performance on aluminum surfaces and proposed model for freezing time calculation. <i>Scientific Reports</i> , 2021 , 11, 3641	4.9	9
197	Comparative Investigation of Yield and Quality of Bio-Oil and Biochar from Pyrolysis of Woody and Non-Woody Biomasses. <i>Energies</i> , 2021 , 14, 1092	3.1	8
196	Production of magnetic sodium alginate polyelectrolyte nanospheres for lead ions removal from wastewater. <i>Journal of Environmental Management</i> , 2021 , 289, 112506	7.9	14
195	Vertical flow constructed wetlands using expanded clay and biochar for wastewater remediation: A comparative study and prediction of effluents using machine learning. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125426	12.8	7
194	Process and Energy Intensification of Glycerol Carbonate Production from Glycerol and Dimethyl Carbonate in the Presence of Eggshell-Derived CaO Heterogeneous Catalyst. <i>Energies</i> , 2021 , 14, 4249	3.1	4
193	Aerosol deposition and airflow dynamics in healthy and asthmatic human airways during inhalation. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125856	12.8	3
192	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105657	6.8	5
191	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. <i>Bioresource Technology</i> , 2021 , 334, 125240	11	18
190	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125702	12.8	14
189	Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane. <i>Chemical Engineering Journal</i> , 2021 , 417, 129264	14.7	8
188	Exergetic, economic, and environmental life cycle assessment analyses of a heavy-duty tractor diesel engine fueled with dieselBiodiesel-bioethanol blends. <i>Energy Conversion and Management</i> , 2021 , 241, 114300	10.6	9
187	Micro-particle biochar for soil carbon pool management: Application and mechanism. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 157, 105229	6	1
186	Production of medium-chain fatty acid caproate from Chinese liquor distillersPgrain using pit mud as the fermentation microbes. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126037	12.8	7
185	Using nucleophilic naphthol derivatives to suppress biomass lignin repolymerization in fermentable sugar production. <i>Chemical Engineering Journal</i> , 2021 , 420, 130258	14.7	11

184	Improving sustainability and mitigating environmental impacts of agro-biowaste compost fertilizer by pelletizing-drying. <i>Environmental Pollution</i> , 2021 , 285, 117412	9.3	5
183	Sustainability assessment of sugarcane residues valorization to biobutadiene by exergy and exergoeconomic evaluation. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 147, 111214	16.2	6
182	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	10.3	7
181	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	10.3	28
180	Performance of CO and Fe-modified lignin char on arsenic (V) removal from water. <i>Chemosphere</i> , 2021 , 279, 130521	8.4	6
179	Net-zero exergoeconomic and exergoenvironmental building as new concepts for developing sustainable built environments. <i>Energy Conversion and Management</i> , 2021 , 244, 114418	10.6	9
178	Independent parallel pyrolysis kinetics of extracted proteins and lipids as well as model carbohydrates in microalgae. <i>Applied Energy</i> , 2021 , 300, 117372	10.7	5
177	Exergoenvironmental analysis of bioenergy systems: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111399	16.2	74
176	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	14.7	33
175	Progress in microbial biomass conversion into green energy. <i>Chemosphere</i> , 2021 , 281, 130835	8.4	9
174	Chemical recycling of plastic waste via thermocatalytic routes. <i>Journal of Cleaner Production</i> , 2021 , 321, 128989	10.3	19
173	Twisting in improving processing of waste-derived yarn into high-performance reinforced composite. <i>Journal of Cleaner Production</i> , 2021 , 317, 128446	10.3	5
172	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021 , 342, 126067	11	6
171	Progress in pyrolysis conversion of waste into value-added liquid pyro-oil, with focus on heating source and machine learning analysis. <i>Energy Conversion and Management</i> , 2021 , 245, 114638	10.6	5
170	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	10.2	4
169	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	16.2	5
168	Salinity-induced microalgal-based mariculture wastewater treatment combined with biodiesel production. <i>Bioresource Technology</i> , 2021 , 340, 125638	11	3
167	Ultrastructural change in lignocellulosic biomass during hydrothermal pretreatment. <i>Bioresource Technology</i> , 2021 , 341, 125807	11	11

166	Production of modified biochar to treat landfill leachate using integrated microwave pyrolytic CO ₂ activation. <i>Chemical Engineering Journal</i> , 2021 , 425, 131886	14.7	5
165	Catalytic microwave-assisted torrefaction of sugarcane bagasse with calcium oxide optimized via Taguchi approach: Product characterization and energy analysis. <i>Fuel</i> , 2021 , 305, 121543	7.1	5
164	Microwave co-torrefaction of waste oil and biomass pellets for simultaneous recovery of waste and co-firing fuel. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111699	16.2	3
163	Bioprocesses for the recovery of bioenergy and value-added products from wastewater: A review. <i>Journal of Environmental Management</i> , 2021 , 300, 113831	7.9	4
162	Phenol removal via activated carbon from co-pyrolysis of waste coal tar pitch and vinasse. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 64-71	2.8	4
161	TEMPO-oxidized cellulose nanofibers/polyacrylamide hybrid hydrogel with intrinsic self-recovery and shape memory properties. <i>Cellulose</i> , 2021 , 28, 1469-1488	5.5	25
160	Gasification of refuse-derived fuel from municipal solid waste for energy production: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1-14	13.3	36
159	One Health or Planetary Health for pandemic prevention?. <i>Lancet, The</i> , 2020 , 396, 1882	4.0	11
158	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. <i>Journal of Cleaner Production</i> , 2020 , 270, 122462	10.3	97
157	A recent global review of hazardous chlorpyrifos pesticide in fruit and vegetables: Prevalence, remediation and actions needed. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123006	12.8	49
156	Fractionation and extraction of bio-oil for production of greener fuel and value-added chemicals: Recent advances and future prospects. <i>Chemical Engineering Journal</i> , 2020 , 397, 125406	14.7	35
155	Recent advances in catalytic co-pyrolysis of biomass and plastic waste for the production of petroleum-like hydrocarbons. <i>Bioresource Technology</i> , 2020 , 310, 123473	11	88
154	Sumatran rhinoceros on the brink of extinction. <i>Science</i> , 2020 , 368, 958	33.3	0
153	Using low carbon footprint high-pressure carbon dioxide in bioconversion of aspen branch waste for sustainable bioethanol production. <i>Bioresource Technology</i> , 2020 , 313, 123675	11	8
152	A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123156	12.8	30
151	Microwave pyrolysis for valorisation of horse manure biowaste. <i>Energy Conversion and Management</i> , 2020 , 220, 113074	10.6	33
150	Photocatalytic NO _x abatement: Recent advances and emerging trends in the development of photocatalysts. <i>Journal of Cleaner Production</i> , 2020 , 270, 121912	10.3	36
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