

Su Shiung Lam

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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	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , 2020 , 389, 124401	14.7	254
308	A Review on Waste to Energy Processes Using Microwave Pyrolysis. <i>Energies</i> , 2012 , 5, 4209-4232	3.1	206
307	Progress in waste oil to sustainable energy, with emphasis on pyrolysis techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 741-753	16.2	199
306	Oil palm waste: An abundant and promising feedstock for microwave pyrolysis conversion into good quality biochar with potential multi-applications. <i>Chemical Engineering Research and Design</i> , 2018 , 115, 57-69	5.5	159
305	Microwave-assisted pyrolysis with chemical activation, an innovative method to convert orange peel into activated carbon with improved properties as dye adsorbent. <i>Journal of Cleaner Production</i> , 2017 , 162, 1376-1387	10.3	157
304	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	10.6	142
303	Microwave pyrolysis with KOH/NaOH mixture activation: A new approach to produce micro-mesoporous activated carbon for textile dye adsorption. <i>Bioresource Technology</i> , 2018 , 266, 1-10	11	137
302	Pyrolysis characteristics and kinetic studies of horse manure using thermogravimetric analysis. <i>Energy Conversion and Management</i> , 2019 , 180, 1260-1267	10.6	134
301	Microwave-heated pyrolysis of waste automotive engine oil: Influence of operation parameters on the yield, composition, and fuel properties of pyrolysis oil. <i>Fuel</i> , 2012 , 92, 327-339	7.1	133
300	A simulation study of the removal efficiency of granular activated carbon on cadmium and lead. <i>Desalination</i> , 2007 , 206, 9-16	10.3	131
299	Fruit waste as feedstock for recovery by pyrolysis technique. <i>International Biodeterioration and Biodegradation</i> , 2016 , 113, 325-333	4.8	118
298	Catalytic microwave pyrolysis of waste engine oil using metallic pyrolysis char. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 601-617	21.8	117
297	Microwave vacuum pyrolysis of waste plastic and used cooking oil for simultaneous waste reduction and sustainable energy conversion: Recovery of cleaner liquid fuel and techno-economic analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 115, 109359	16.2	116
296	Conventional and emerging technologies for removal of antibiotics from wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 400, 122961	12.8	104
295	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. <i>Journal of Cleaner Production</i> , 2020 , 270, 122462	10.3	97
294	Transformation of biomass into carbon nanofiber for supercapacitor application [A review]. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20811-20821	6.7	97
293	Progress in biomass gasification technique [With focus on Malaysian palm biomass for syngas production. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 62, 1047-1062	16.2	96

292	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
291	Recovery of diesel-like fuel from waste palm oil by pyrolysis using a microwave heated bed of activated carbon. <i>Energy</i> , 2016 , 115, 791-799	7.9	93
290	Pyrolysis production of fruit peel biochar for potential use in treatment of palm oil mill effluent. <i>Journal of Environmental Management</i> , 2018 , 213, 400-408	7.9	91
289	Microwave pyrolysis, a novel process for recycling waste automotive engine oil. <i>Energy</i> , 2010 , 35, 2985-2991	7.9	90
288	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
287	Machine learning technology in biodiesel research: A review. <i>Progress in Energy and Combustion Science</i> , 2021 , 85, 100904	33.6	84
286	Innovative production of highly porous carbon for industrial effluent remediation via microwave vacuum pyrolysis plus sodium-potassium hydroxide mixture activation. <i>Journal of Cleaner Production</i> , 2019 , 208, 1436-1445	10.3	84
285	Production of value-added liquid fuel via microwave co-pyrolysis of used frying oil and plastic waste. <i>Energy</i> , 2018 , 162, 309-317	7.9	83
284	Engineered biochar via microwave CO and steam pyrolysis to treat carcinogenic Congo red dye. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122636	12.8	83
283	Pyrolysis using microwave absorbents as reaction bed: An improved approach to transform used frying oil into biofuel product with desirable properties. <i>Journal of Cleaner Production</i> , 2017 , 147, 263-272	10.3	80
282	Microwave steam activation, an innovative pyrolysis approach to convert waste palm shell into highly microporous activated carbon. <i>Journal of Environmental Management</i> , 2019 , 236, 245-253	7.9	80
281	A review on phytoremediation of contaminants in air, water and soil. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123658	12.8	78
280	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
279	Microwave co-pyrolysis of waste polyolefins and waste cooking oil: Influence of N ₂ atmosphere versus vacuum environment. <i>Energy Conversion and Management</i> , 2018 , 171, 1292-1301	10.6	76
278	Exergoenvironmental analysis of bioenergy systems: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111399	16.2	74
277	Production of bio-fertilizer from microwave vacuum pyrolysis of palm kernel shell for cultivation of Oyster mushroom (<i>Pleurotus ostreatus</i>). <i>Science of the Total Environment</i> , 2018 , 624, 9-16	10.2	72
276	Vacuum pyrolysis incorporating microwave heating and base mixture modification: An integrated approach to transform biowaste into eco-friendly bioenergy products. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 127, 109871	16.2	70
275	Production of activated carbon as catalyst support by microwave pyrolysis of palm kernel shell: a comparative study of chemical versus physical activation. <i>Research on Chemical Intermediates</i> , 2018 , 44, 3849-3865	2.8	70

274	Production of hydrogen and light hydrocarbons as a potential gaseous fuel from microwave-heated pyrolysis of waste automotive engine oil. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5011-5021	6.7	69
273	Harvesting microalgae, <i>Chlorella</i> sp. by bio-flocculation of <i>Moringa oleifera</i> seed derivatives from aquaculture wastewater phytoremediation. <i>International Biodeterioration and Biodegradation</i> , 2014 , 95, 270-275	4.8	67
272	Microwave-assisted pyrolysis of HDPE using an activated carbon bed. <i>RSC Advances</i> , 2012 , 2, 6756	3.7	64
271	Production of CO-rich hydrogen from methane dry reforming over lanthania-supported cobalt catalyst: Kinetic and mechanistic studies. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4603-4615	6.7	63
270	Engineering pyrolysis biochar via single-step microwave steam activation for hazardous landfill leachate treatment. <i>Journal of Hazardous Materials</i> , 2020 , 390, 121649	12.8	63
269	Self-purging microwave pyrolysis: an innovative approach to convert oil palm shell into carbon-rich biochar for methylene blue adsorption. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1397-1405	3.5	63
268	Activated Carbon for Catalyst Support from Microwave Pyrolysis of Orange Peel. <i>Waste and Biomass Valorization</i> , 2017 , 8, 2109-2119	3.2	60
267	Liquid biofuels production and emissions performance in gas turbines: A review. <i>Energy Conversion and Management</i> , 2018 , 173, 640-658	10.6	58
266	MXenes: Applications in electrocatalytic, photocatalytic hydrogen evolution reaction and CO ₂ reduction. <i>Molecular Catalysis</i> , 2020 , 486, 110850	3.3	57
265	Co-processing of oil palm waste and waste oil via microwave co-torrefaction: A waste reduction approach for producing solid fuel product with improved properties. <i>Chemical Engineering Research and Design</i> , 2019 , 128, 30-35	5.5	56
264	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO ₂ to high-value renewable fuels. <i>Chemical Engineering Journal</i> , 2020 , 402, 126184	14.7	55
263	Microwave Pyrolysis with Steam Activation in Producing Activated Carbon for Removal of Herbicides in Agricultural Surface Water. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 695-703	3.0	55
262	Treatment of African catfish, <i>Clarias gariepinus</i> wastewater utilizing phytoremediation of microalgae, <i>Chlorella</i> sp. with <i>Aspergillus niger</i> bio-harvesting. <i>Bioresource Technology</i> , 2015 , 190, 492-8	11	53
261	Effect of Conway Medium and f/2 Medium on the growth of six genera of South China Sea marine microalgae. <i>Bioresource Technology</i> , 2013 , 141, 75-82	11	52
260	Simultaneous removal of toxic ammonia and lettuce cultivation in aquaponic system using microwave pyrolysis biochar. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122610	12.8	50
259	Microwave pyrolysis valorization of used baby diaper. <i>Chemosphere</i> , 2019 , 230, 294-302	8.4	49
258	Optimization of C/N ratios for nutrient removal in aquaculture system culturing African catfish, (<i>Clarias gariepinus</i>) utilizing Bioflocs Technology. <i>International Biodeterioration and Biodegradation</i> , 2015 , 102, 100-106	4.8	49
257	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

256	In-situ and ex-situ catalytic pyrolysis/co-pyrolysis of empty fruit bunches using mesostructured aluminosilicate catalysts. <i>Chemical Engineering Journal</i> , 2019 , 366, 330-338	14.7	48
255	In-depth interpretation of the structural changes of lignin and formation of diketones during acidic deep eutectic solvent pretreatment. <i>Green Chemistry</i> , 2020 , 22, 1851-1858	10	48
254	Pyrolysis Using Microwave Heating: A Sustainable Process for Recycling Used Car Engine Oil. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10845-10851	3.9	48
253	Enzymatic conversion of pretreated lignocellulosic biomass: A review on influence of structural changes of lignin. <i>Bioresource Technology</i> , 2021 , 324, 124631	11	47
252	Microwave vacuum pyrolysis conversion of waste mushroom substrate into biochar for use as growth medium in mushroom cultivation. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1406-1415	3.5	47
251	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
250	Valorization of underutilized waste biomass from invasive species to produce biochar for energy and other value-added applications. <i>Environmental Research</i> , 2020 , 186, 109596	7.9	43
249	Optimization of biomass harvesting of microalgae, <i>Chlorella</i> sp. utilizing auto-flocculating microalgae, <i>Ankistrodesmus</i> sp. as bio-flocculant. <i>International Biodeterioration and Biodegradation</i> , 2016 , 113, 391-396	4.8	43
248	Recent technologies for treatment and recycling of used disposable baby diapers. <i>Chemical Engineering Research and Design</i> , 2019 , 123, 116-129	5.5	43
247	Syngas production from CO ₂ reforming of methane over neodymium sesquioxide supported cobalt catalyst. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 34, 873-885	4.6	42
246	Prospect of biobased antiviral face mask to limit the coronavirus outbreak. <i>Environmental Research</i> , 2021 , 192, 110294	7.9	42
245	High capacity oil absorbent wood prepared through eco-friendly deep eutectic solvent delignification. <i>Chemical Engineering Journal</i> , 2020 , 401, 126150	14.7	40
244	Pyrolysis Recovery of Waste Shipping Oil Using Microwave Heating. <i>Energies</i> , 2016 , 9, 780	3.1	40
243	Harvesting of microalgae (<i>Chlorella</i> sp.) from aquaculture bioflocs using an environmental-friendly chitosan-based bio-coagulant. <i>International Biodeterioration and Biodegradation</i> , 2017 , 124, 243-249	4.8	39
242	Biodiesel process intensification through catalytic enhancement and emerging reactor designs: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 116, 109399	16.2	38
241	Mainstream avenues for boosting graphitic carbon nitride efficiency: towards enhanced solar light-driven photocatalytic hydrogen production and environmental remediation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10571-10603	13	38
240	Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production. <i>Bioresource Technology</i> , 2021 , 320, 124299	11	38
239	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

238	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
237	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
236	Microwave-assisted and carbonaceous catalytic pyrolysis of crude glycerol from biodiesel waste for energy production. <i>Energy Conversion and Management</i> , 2017 , 143, 399-409	10.6	35
235	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
234	The potential of exhaust waste heat recovery (WHR) from marine diesel engines via organic rankine cycle. <i>Energy</i> , 2019 , 166, 17-31	7.9	35
233	Sustainable utilization of biowaste compost for renewable energy and soil amendments. <i>Environmental Pollution</i> , 2020 , 267, 115662	9.3	34
232	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
231	Microwave pyrolysis for valorisation of horse manure biowaste. <i>Energy Conversion and Management</i> , 2020 , 220, 113074	10.6	33
230	High-pressure CO ₂ hydrothermal pretreatment of peanut shells for enzymatic hydrolysis conversion into glucose. <i>Chemical Engineering Journal</i> , 2020 , 385, 123949	14.7	33
229	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
228	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
227	Biological nutrient removal by recirculating aquaponic system: Optimization of the dimension ratio between the hydroponic & rearing tank components. <i>International Biodeterioration and Biodegradation</i> , 2015 , 102, 107-115	4.8	32
226	Applying microwave vacuum pyrolysis to design moisture retention and pH neutralizing palm kernel shell biochar for mushroom production. <i>Bioresource Technology</i> , 2020 , 312, 123572	11	32
225	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
224	Catalytic co-pyrolysis of cellulose and linear low-density polyethylene over MgO-impregnated catalysts with different acid-base properties. <i>Chemical Engineering Journal</i> , 2019 , 373, 375-381	14.7	30
223	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
222	Health effects from contaminant exposure in Baltic Sea birds and marine mammals: A review. <i>Environment International</i> , 2020 , 139, 105725	12.9	30
221	A review of the "Omics" approach to biomarkers of oxidative stress in <i>Oryza sativa</i> . <i>International Journal of Molecular Sciences</i> , 2013 , 14, 7515-41	6.3	30

220	A review of historical and recent locust outbreaks: Links to global warming, food security and mitigation strategies. <i>Environmental Research</i> , 2020 , 191, 110046	7.9	29
219	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
218	Syngas from catalytic steam reforming of palm oil mill effluent: An optimization study. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9220-9236	6.7	27
217	Theoretical vertical-axis tidal-current-turbine wake model using axial momentum theory with CFD corrections. <i>Applied Ocean Research</i> , 2018 , 79, 113-122	3.4	27
216	Waste excretion of marble goby (<i>Oxyeleotris marmorata</i> Bleeker) fed with different diets. <i>Aquaculture</i> , 2008 , 274, 49-56	4.4	27
215	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
214	Conversion of waste shipping oil into diesel-like oil via microwave-assisted pyrolysis. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5836-5842	6.8	25
213	A review on the role of hierarchical zeolites in the production of transportation fuels through catalytic fast pyrolysis of biomass. <i>Biofuel Research Journal</i> , 2020 , 7, 1217-1234	13.9	25
212	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
211	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
210	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
209	Influence of roxithromycin as antibiotic residue on volatile fatty acids recovery in anaerobic fermentation of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020 , 394, 122570	12.8	24
208	Valorization of exo-microbial fermented coconut endosperm waste by black soldier fly larvae for simultaneous biodiesel and protein productions. <i>Environmental Research</i> , 2020 , 185, 109458	7.9	24
207	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
206	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
205	Orange peel valorization by pyrolysis under the carbon dioxide environment. <i>Bioresource Technology</i> , 2019 , 285, 121356	11	23
204	The removal of polycyclic aromatic hydrocarbons (PAHs) from marine sediments using persulfate over a nano-sized iron composite of magnetite and carbon black activator. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104440	6.8	23
203	Production of high quality biodiesel from novel non-edible <i>Raphanus raphanistrum</i> L. seed oil using copper modified montmorillonite clay catalyst. <i>Environmental Research</i> , 2021 , 193, 110398	7.9	22

202	Morphology and growth of carbon nanotubes catalytically synthesised by premixed hydrocarbon-rich flames. <i>Materials Chemistry and Physics</i> , 2017 , 197, 246-255	4.4	21
201	Cleaner conversion of bamboo into carbon fibre with favourable physicochemical and capacitive properties via microwave pyrolysis combining with solvent extraction and chemical impregnation. <i>Journal of Cleaner Production</i> , 2019 , 236, 117692	10.3	21
200	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
199	Boron-doped Ni/SBA-15 catalysts with enhanced coke resistance and catalytic performance for dry reforming of methane. <i>Journal of the Energy Institute</i> , 2020 , 93, 31-42	5.7	21
198	Hydrogen production and heavy metal immobilization using hyperaccumulators in supercritical water gasification. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123541	12.8	21
197	Phytoremediation of radionuclides in soil, sediments and water. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124771	12.8	21
196	A critical review to bridge the gaps between carbon capture, storage and use of CaCO ₃ . <i>Journal of CO₂ Utilization</i> , 2020 , 42, 101333	7.6	20
195	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
194	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
193	Biodiesel synthesized from waste cooking oil in a continuous microwave assisted reactor reduced PM and NO _x emissions. <i>Environmental Research</i> , 2020 , 185, 109452	7.9	19
192	Combustion and emission performances of coconut, palm and soybean methyl esters under reacting spray flame conditions. <i>Journal of the Energy Institute</i> , 2019 , 92, 1034-1044	5.7	19
191	A review on production of lignin-based biofuels: Sustainable feedstock and low carbon footprint applications. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110384	16.2	19
190	Chemical recycling of plastic waste via thermocatalytic routes. <i>Journal of Cleaner Production</i> , 2021 , 321, 128989	10.3	19
189	Enhanced visible photocatalytic degradation of diclofenac over N-doped TiO ₂ assisted with H ₂ O ₂ : A kinetic and pathway study. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 8361-8371	5.9	18
188	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	7.9	18
187	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
186	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. <i>Bioresour. Technol.</i> , 2021 , 334, 125240	11	18
185	Effect of mixture flow stratification on premixed flame structure and emissions under counter-rotating swirl burner configuration. <i>Applied Thermal Engineering</i> , 2016 , 105, 905-912	5.8	17

184	The direct transformation of bioethanol fermentation residues for production of high-quality resins. <i>Green Chemistry</i> , 2020 , 22, 439-447	10	17
183	Development and evaluation of zinc oxide-blended kenaf fiber biocomposite for automotive applications. <i>Materials Today Communications</i> , 2020 , 24, 101008	2.5	16
182	Subtopic: Advances in water and wastewater treatment harvesting of <i>Chlorella</i> sp. microalgae using <i>Aspergillus niger</i> as bio-flocculant for aquaculture wastewater treatment. <i>Journal of Environmental Management</i> , 2019 , 249, 109373	7.9	16
181	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
180	Synthesis and characterization of a La Ni/Al ₂ O ₃ catalyst and its use in pyrolysis of glycerol to syngas. <i>Renewable Energy</i> , 2019 , 132, 1389-1401	8.1	16
179	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
178	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
177	Experimental evaluation and empirical modelling of palm oil mill effluent steam reforming. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15784-15793	6.7	15
176	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
175	A review of dietary phytochemicals and their relation to oxidative stress and human diseases. <i>Chemosphere</i> , 2021 , 271, 129499	8.4	15
174	Valorization of alum sludge via a pyrolysis platform using CO as reactive gas medium. <i>Environment International</i> , 2019 , 132, 105037	12.9	14
173	Processed Bamboo as a Novel Formaldehyde-Free High-Performance Furniture Biocomposite. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30824-30832	9.5	14
172	Effective passivation of lead by phosphate solubilizing bacteria capsules containing tricalcium phosphate. <i>Journal of Hazardous Materials</i> , 2020 , 397, 122754	12.8	14
171	Production of bio-oil with reduced polycyclic aromatic hydrocarbons via continuous pyrolysis of biobutanol process derived waste lignin. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121231	12.8	14
170	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
169	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125702	12.8	14
168	Renewable syngas production from thermal cracking of glycerol over praseodymium-promoted Ni/Al ₂ O ₃ catalyst. <i>Applied Thermal Engineering</i> , 2017 , 112, 871-880	5.8	13
167	Ethanol CO ₂ reforming on La ₂ O ₃ and CeO ₂ -promoted Cu/Al ₂ O ₃ catalysts for enhanced hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18398-18410	6.7	13

166	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
165	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
164	Integrated catalytic insights into methanol production: Sustainable framework for CO conversion. <i>Journal of Environmental Management</i> , 2021 , 289, 112468	7.9	13
163	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
162	Green application and toxic risk of used diaper and food waste as growth substitute for sustainable cultivation of oyster mushroom (<i>Pleurotus ostreatus</i>). <i>Journal of Cleaner Production</i> , 2020 , 268, 122272	10.3	12
161	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. <i>Chemosphere</i> , 2021 , 271, 129510	8.4	12
160	Biochar for cadmium pollution mitigation and stress resistance in tobacco growth. <i>Environmental Research</i> , 2021 , 192, 110273	7.9	12
159	One Health or Planetary Health for pandemic prevention?. <i>Lancet, The</i> , 2020 , 396, 1882	40	11
158	Valorization of Technical Lignin for the Production of Desirable Resins with High Substitution Rate and Controllable Viscosity. <i>ChemSusChem</i> , 2020 , 13, 4446-4454	8.3	11
157	A study on the optimal tank design and feed type to the growth of marble goby (<i>Oxyeleotris marmorata</i> Bleeker) and reduction of waste in a recirculating aquaponic system. <i>Desalination and Water Treatment</i> , 2014 , 52, 1044-1053		11
156	Removal of pesticide in agricultural runoff using granular-activated carbon: a simulation study using a fixed-bed column approach. <i>Desalination and Water Treatment</i> , 2014 , 52, 861-866		11
155	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
154	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. <i>Journal of Cleaner Production</i> , 2020 , 268, 122300	10.3	11
153	Enhanced fuel characteristics and physical chemistry of microwave hydrochar for sustainable fuel pellet production via co-densification. <i>Environmental Research</i> , 2020 , 186, 109480	7.9	11
152	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
151	Using nucleophilic naphthol derivatives to suppress biomass lignin repolymerization in fermentable sugar production. <i>Chemical Engineering Journal</i> , 2021 , 420, 130258	14.7	11
150	Ultrastructural change in lignocellulosic biomass during hydrothermal pretreatment. <i>Bioresource Technology</i> , 2021 , 341, 125807	11	11
149	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

148	Deforestation of rainforests requires active use of UNB Sustainable Development Goals. <i>Science of the Total Environment</i> , 2020 , 742, 140681	10.2	10
147	An assessment of the longevity of samarium cobalt trioxide perovskite catalyst during the conversion of greenhouse gases into syngas. <i>Journal of Cleaner Production</i> , 2018 , 185, 576-587	10.3	10
146	Bioethanol production from food wastes rich in carbohydrates. <i>Current Opinion in Food Science</i> , 2022 , 43, 71-81	9.8	10
145	Novel molybdenum disulfide heterostructure nanohybrids with enhanced visible-light-induced photocatalytic activity towards organic dyes. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 156448	5.7	10
144	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
143	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
142	Optimization of cell disruption methods for efficient recovery of bioactive metabolites via NMR of three freshwater microalgae (chlorophyta). <i>Bioresource Technology</i> , 2015 , 190, 536-42	11	9
141	Microwave pyrolysis using self-generated pyrolysis gas as activating agent: An innovative single-step approach to convert waste palm shell into activated carbon. <i>E3S Web of Conferences</i> , 2017 , 22, 00195	0.5	9
140	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
139	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
138	The ongoing cut-down of the Amazon rainforest threatens the climate and requires global tree planting projects: A short review. <i>Environmental Research</i> , 2020 , 181, 108887	7.9	9
137	Conceptual design of a hybrid thin layer cascade photobioreactor for microalgal biodiesel synthesis. <i>International Journal of Energy Research</i> , 2020 , 44, 9757-9771	4.5	9
136	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
135	Anti-icing performance on aluminum surfaces and proposed model for freezing time calculation. <i>Scientific Reports</i> , 2021 , 11, 3641	4.9	9
134	Empirical model for Darrieus-type tidal current turbine induced seabed scour. <i>Energy Conversion and Management</i> , 2018 , 171, 478-490	10.6	9
133	Metabolites Re-programming and Physiological Changes Induced in <i>Scenedesmus regularis</i> under Nitrate Treatment. <i>Scientific Reports</i> , 2018 , 8, 9746	4.9	9
132	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	10.6	9
131	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

130	Progress in microbial biomass conversion into green energy. <i>Chemosphere</i> , 2021 , 281, 130835	8.4	9
129	Advanced nanocellulose-based gas barrier materials: Present status and prospects. <i>Chemosphere</i> , 2022 , 286, 131891	8.4	9
128	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
127	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
126	Instant Catapult Steam Explosion: A rapid technique for detoxification of aflatoxin-contaminated biomass for sustainable utilization as animal feed. <i>Journal of Cleaner Production</i> , 2020 , 255, 120010	10.3	8
125	Support Austria's glyphosate ban. <i>Science</i> , 2020 , 367, 257-258	33.3	8
124	Determining biomass chemical exergy using a novel hybrid intelligent approach to promote biomass-based biorefineries. <i>Journal of Cleaner Production</i> , 2020 , 277, 124089	10.3	8
123	Review on Conversion of Lignin Waste into Value-Added Resources in Tropical Countries. <i>Waste and Biomass Valorization</i> , 2020 , 12, 5285	3.2	8
122	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
121	Emerging contaminants and biological effects in Arctic wildlife. <i>Trends in Ecology and Evolution</i> , 2021 , 36, 421-429	10.9	8
120	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
119	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
118	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
117	How does biochar aging affect NH volatilization and GHGs emissions from agricultural soils?. <i>Environmental Pollution</i> , 2021 , 294, 118598	9.3	7
116	First predatory journals, now conferences: The need to establish lists of fake conferences. <i>Science of the Total Environment</i> , 2020 , 715, 136990	10.2	7
115	Denmark recycling plan will cut waste by two-thirds. <i>Nature</i> , 2020 , 584, 192	50.4	7
114	Microwave wet torrefaction: A catalytic process to convert waste palm shell into porous biochar. <i>Materials Science for Energy Technologies</i> , 2020 , 3, 742-747	5.2	7
113	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

112	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
111	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
110	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
109	Biomass and organic waste potentials towards implementing circular bioeconomy platforms: A systematic bibliometric analysis. <i>Fuel</i> , 2022 , 318, 123585	7.1	7
108	Temporal Evolution of Seabed Scour Induced by Darrieus-Type Tidal Current Turbine. <i>Water (Switzerland)</i> , 2019 , 11, 896	3	6
107	Enhanced bioaromatics synthesis via catalytic co-pyrolysis of cellulose and spent coffee ground over microporous HZSM-5 and HY. <i>Environmental Research</i> , 2020 , 184, 109311	7.9	6
106	Grid-Connected Photovoltaic Systems with Single-Axis Sun Tracker: Case Study for Central Vietnam. <i>Energies</i> , 2020 , 13, 1457	3.1	6
105	Tip-Bed Velocity and Scour Depth of Horizontal-Axis Tidal Turbine with Consideration of Tip Clearance. <i>Energies</i> , 2019 , 12, 2450	3.1	6
104	An Overview on the Conversion of Forest Biomass into Bioenergy. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	6
103	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
102	Performance of CO and Fe-modified lignin char on arsenic (V) removal from water. <i>Chemosphere</i> , 2021 , 279, 130521	8.4	6
101	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021 , 342, 126067	11	6
100	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
99	Lead concentrations in blood from incubating common eiders (<i>Somateria mollissima</i>) in the Baltic Sea. <i>Environment International</i> , 2020 , 137, 105582	12.9	5
98	Wildfire puts koalas at risk of extinction. <i>Science</i> , 2020 , 367, 750	33.3	5
97	Production of Pyrolyzed Oil from Crude Glycerol using a Microwave Heating Technique 2016 , 7, 323		5
96	Biocatalytic remediation of pharmaceutically active micropollutants for environmental sustainability. <i>Environmental Pollution</i> , 2021 , 293, 118582	9.3	5
95	A review on integrated thermochemical hydrogen production from water. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 4346-4346	6.7	5

94	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
93	Engineered bacteria for valorizing lignocellulosic biomass into bioethanol. <i>Bioresource Technology</i> , 2022 , 344, 126212	11	5
92	Effective toluene oxidation under ozone over mesoporous MnO/FAO catalyst prepared by solvent deficient method: Effect of Mn precursors on catalytic activity. <i>Environmental Research</i> , 2021 , 195, 110876	7.9	5
91	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
90	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
89	Improving sustainability and mitigating environmental impacts of agro-biowaste compost fertilizer by pelletizing-drying. <i>Environmental Pollution</i> , 2021 , 285, 117412	9.3	5
88	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
87	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
86	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
85	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
84	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
83	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
82	Exergy, economic, and environmental assessment of ethanol dehydration to diesel fuel additive diethyl ether. <i>Fuel</i> , 2022 , 308, 121918	7.1	5
81	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
80	Comparative Fatty Acid Profiling of Edible Fishes in Kuala Terengganu, Malaysia. <i>Foods</i> , 2021 , 10,	4.9	4
79	Integrated farming system producing zero emissions and sustainable livelihood for small-scale cattle farms: Case study in the Mekong Delta, Vietnam. <i>Environmental Pollution</i> , 2020 , 265, 114853	9.3	4
78	Seize China's momentum to protect pangolins. <i>Science</i> , 2021 , 371, 1214	33.3	4
77	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

76	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
75	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
74	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
73	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
72	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
71	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
70	Pool Fire Burning Characteristics of Biodiesel. <i>Fire Technology</i> , 2020 , 56, 1703-1724	3	3
69	The structures of salicylate surfactants with long alkyl chains in non-aqueous media. <i>Langmuir</i> , 2013 , 29, 14763-71	4	3
68	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
67	Sustainable valorization of algae biomass via thermochemical processing route: An overview. <i>Bioresource Technology</i> , 2022 , 344, 126399	11	3
66	Perspectives on phytoremediation of zinc pollution in air, water and soil. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 24, 100550	3.9	3
65	The Application of Algae for Cosmeceuticals in the Omics Age476-488		3
64	Production of biochar for potential catalytic and energy applications via microwave vacuum pyrolysis conversion of cassava stem. <i>Materials Science for Energy Technologies</i> , 2020 , 3, 728-733	5.2	3
63	Body mass, mercury exposure, biochemistry and untargeted metabolomics of incubating common eiders (<i>Somateria mollissima</i>) in three Baltic colonies. <i>Environment International</i> , 2020 , 142, 105866	12.9	3
62	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
61	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
60	Ancient oaks of Europe are archives - protect them. <i>Nature</i> , 2021 , 594, 495	50.4	3
59	Progress and Challenges of Detecting Biomarkers for the Development of Pesticide Biosensor in Rice Plants 2019 , 821-838		3

58	Recycling of aquaculture wastewater and sediment for sustainable corn and water spinach production. <i>Chemosphere</i> , 2021 , 268, 129329	8.4	3
57	Characteristics of Modified Spiral Thrust Bearing through Geometries and Dimension Modifications. <i>Tribology Online</i> , 2018 , 13, 334-339	0.9	3
56	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
55	Salinity-induced microalgal-based mariculture wastewater treatment combined with biodiesel production. <i>Bioresource Technology</i> , 2021 , 340, 125638	11	3
54	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
53	Sustainable management of municipal solid waste through waste-to-energy technologies.. <i>Bioresource Technology</i> , 2022 , 355, 127247	11	3
52	Seroprevalence of avian influenza in Baltic common eiders (<i>Somateria mollissima</i>) and pink-footed geese (<i>Anser brachyrhynchus</i>). <i>Environment International</i> , 2020 , 142, 105873	12.9	2
51	ULTRASONICATED JATROPHA CURCAS SEED RESIDUAL AS POTENTIAL BIOFUEL FEEDSTOCK. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015 , 77,	1.2	2
50	Fungi as Bioreactors for Biodiesel Production. <i>Fungal Biology</i> , 2020 , 39-67	2.3	2
49	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
48	Engineered biochar produced through microwave pyrolysis as a fuel additive in biodiesel combustion. <i>Fuel</i> , 2022 , 312, 122839	7.1	2
47	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
46	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
45	Iron oxychloride-based heterogeneous Fenton pretreatment of corn stover for enhanced sugars production. <i>Chemical Engineering Journal</i> , 2021 , 416, 127703	14.7	2
44	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
43	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
42	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
41	A comprehensive review on anaerobic fungi applications in biofuels production.. <i>Science of the Total Environment</i> , 2022 , 154521	10.2	2

40	Progress in recycling and valorization of waste silk.. <i>Science of the Total Environment</i> , 2022 , 830, 154812	10.2	2
39	Removal of persistent acetophenone from industrial waste-water via bismuth ferrite nanostructures.. <i>Chemosphere</i> , 2022 , 134750	8.4	2
38	Being applied at rice or wheat season impacts biochar's effect on gaseous nitrogen pollutants from the wheat growth cycle.. <i>Environmental Pollution</i> , 2022 , 306, 119409	9.3	2
37	Co-pyrolysis of Lignocellulosic Biomass and Polymeric Wastes for Liquid Oil Production 2020 , 271-284		1
36	Prospect of Parallel Biodiesel and Bioethanol Production from JatrophaCurcas Seed. <i>Applied Mechanics and Materials</i> , 2014 , 663, 44-48	0.3	1
35	Production of bio-fertilizer from microwave vacuum pyrolysis of waste palm shell for cultivation of oyster mushroom (Pleurotus ostreatus). <i>E3S Web of Conferences</i> , 2017 , 22, 00122	0.5	1
34	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
33	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
32	Green technology in treating aquaculture wastewater 2020 ,		1
31	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
30	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
29	European eel population at risk of collapse. <i>Science</i> , 2021 , 372, 1271	33.3	1
28	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
27	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
26	Valorization of Bokashi leachate as feed additive in tilapia farming. <i>Environmental Research</i> , 2021 , 198, 110472	7.9	1
25	Micro-particle biochar for soil carbon pool management: Application and mechanism. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 157, 105229	6	1
24	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
23	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

22	Machine learning predicts and optimizes hydrothermal liquefaction of biomass. <i>Chemical Engineering Journal</i> , 2022 , 445, 136579	14.7	1
21	Enzyme mediated transformation of CO ₂ into calcium carbonate using purified microbial carbonic anhydrase. <i>Environmental Research</i> , 2022 , 212, 113538	7.9	1
20	Sumatran rhinoceros on the brink of extinction. <i>Science</i> , 2020 , 368, 958	33.3	0
19	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
18	Effect of Ethanol Composition in the Coagulation Bath on Membrane Performance. <i>Journal of Applied Sciences</i> , 2007 , 7, 2131-2136	0.3	0
17	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
16	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
15	Environmental perspectives of textile waste, environmental pollution and recycling. <i>Environmental Technology Reviews</i> , 2022 , 11, 62-71	7.7	0
14	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
13	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
12	Exergetic sustainability evaluation of horse manure biomass valorization by microwave pyrolysis. <i>Fuel</i> , 2022 , 323, 124286	7.1	0
11	Be cautious applying carbon-fluorine bonds in drug delivery. <i>Chemosphere</i> , 2020 , 248, 125971	8.4	
10	Head loss performance and modeling of burnt oil palm shell in deep bed filtration. <i>Water Science and Technology: Water Supply</i> , 2007 , 7, 141-147	1.4	
9	Esterification/Transesterification of Lipidic Wastes for Biodiesel Production 2022 , 227-273		
8	Environmental management of two of the world's most endangered marine and terrestrial predators: Vaquita and cheetah. <i>Environmental Research</i> , 2020 , 190, 109966	7.9	
7	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	
6	Pareto-hierarchical clustering framework for biodiesel transesterification. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 45, 101160	4.7	
5	Esterification of Microwave Induced Pyrolytic Oil from Sago Bark Waste. <i>Waste and Biomass Valorization</i> , 2020 , 11, 3653-3663	3.2	

- 4 Performance of platinum doping on spent alkaline battery-based catalyst for complete oxidation of o-xylene. *Environmental Science and Pollution Research*, **2021**, 28, 24552-24557 5.1
- 3 Microwave Pyrolysis Combined with CO₂ and Steam as Potential Approach for Waste Valorization. *Key Engineering Materials*, 914, 187-192 0.4
- 2 Biochar Waste Palm Shell for NO_x Post-Emission Reduction in Biodiesel Combustion. *Key Engineering Materials*, 914, 193-198 0.4
- 1 Production of biochar using sustainable microwave pyrolysis approach **2022**, 323-332