

# Je-Chan Lee

## 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.

199  
papers

5,950  
citations

37  
h-index

69  
g-index

208  
ext. papers

8,040  
ext. citations

9.1  
avg, IF

6.84  
L-index

#	Paper	IF	Citations
199	Sustainable valorization of algae biomass via thermochemical processing route: An overview. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126399	11	3
198	Energy-efficient thermal waste treatment process with no CO <sub>2</sub> emission: A case study of waste tea bag. <i>Energy</i> , <b>2022</b> , 241, 122876	7.9	1
197	Employment of biogas as pyrolysis medium and chemical feedstock. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2022</b> , 57, 101877	7.6	3
196	Plant-based remediation of air pollution: A review. <i>Journal of Environmental Management</i> , <b>2022</b> , 301, 113860	7.9	1
195	Valorization of hazardous COVID-19 mask waste while minimizing hazardous byproducts using catalytic gasification. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127222	12.8	6
194	Suppression of the hazardous substances in catalytically upgraded bio-heavy oil as a precautionary measure for clean air pollution controls. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126732	12.8	0
193	Energy recovery from wood pellets and waste mulching film with minimization of harmful byproducts via thermochemical conversion with CO <sub>2</sub> agent. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131459	14.7	2
192	Microwave co-pyrolysis for simultaneous disposal of environmentally hazardous hospital plastic waste, lignocellulosic, and triglyceride biowaste. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127096	12.8	9
191	Technical benefits of using methane as a pyrolysis medium for catalytic pyrolysis of Kraft Lignin.. <i>Bioresource Technology</i> , <b>2022</b> , 127131	11	0
190	A strategy for food waste-to-biofuels: Co-production of gasoline alternatives from volatile fatty acids. <i>Journal of Cleaner Production</i> , <b>2022</b> , 348, 131408	10.3	0
189	Climate variability and food waste treatment: Analysis for bioenergy sustainability. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 160, 112336	16.2	0
188	Recent advances in photocatalytic reduction of CO <sub>2</sub> by TiO <sub>2</sub> and MOF-based nanocomposites impregnated with metal nanoparticles. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100870	6.2	0
187	Valorization of furniture industry-processed residue via catalytic pyrolysis with methane. <i>Energy Conversion and Management</i> , <b>2022</b> , 261, 115652	10.6	1
186	Carbon dioxide-mediated thermochemical conversion of banner waste using cobalt oxide catalyst as a strategy for plastic waste treatment. <i>Environmental Research</i> , <b>2022</b> , 113560	7.9	2
185	Enhancement of Bioaromatics Production from Food Waste through Catalytic Pyrolysis over Zn and Mo-loaded HZSM-5 under an Environment of Decomposed Methane. <i>Chemical Engineering Journal</i> , <b>2022</b> , 137215	14.7	1
184	Biohydrogen production from furniture waste via catalytic gasification in air over Ni-loaded Ultra-stable Y-type zeolite. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133793	14.7	4
183	Renewable Butanol Production via Catalytic Routes. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	4

182	Application of Fe-Impregnated Biochar from Cattle Manure for Removing Pentavalent Antimony from Aqueous Solution. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9257	2.6	0
181	3D hexagonal hierarchitected cobalt sulfide as an enhanced catalyst for activating monopersulfate to degrade sunscreen agent ensulizole. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 131, 104109-104109	5.3	1
180	Co-pyrolysis for the valorization of food waste and oriental herbal medicine byproduct. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2021</b> , 154, 105016	6	11
179	Pyrolysis of polypropylene for production of fuel-range products: Effect of molecular weight of polypropylene. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 13088-13097	4.5	2
178	Catalytic production of hexamethylenediamine from renewable feedstocks. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 1079-1086	2.8	4
177	Dual-template magnetic molecularly imprinted polymer-based sorbent for simultaneous and selective detection of phenolic endocrine disrupting compounds in foodstuffs. <i>Environmental Pollution</i> , <b>2021</b> , 275, 116613	9.3	6
176	Waste-to-Fuels: Pyrolysis of Low-Density Polyethylene Waste in the Presence of H-ZSM-11. <i>Polymers</i> , <b>2021</b> , 13,	4.5	7
175	Integrated MOF-mesh and TEMPO-grafted carbon fiber as a sandwich-like catalytic system for selective valorization of lignin-derived compound under microwave irradiation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128605	14.7	2
174	Upcycling of waste teabags via catalytic pyrolysis in carbon dioxide over HZSM-11. <i>Chemical Engineering Journal</i> , <b>2021</b> , 412, 128626	14.7	6
173	Metal-complexed covalent organic frameworks derived N-doped carbon nanobubble-embedded cobalt nanoparticle as a magnetic and efficient catalyst for oxone activation. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 591, 161-172	9.3	8
172	Aerobic oxidation of 5-hydroxymethylfurfural into 2,5-diiformylfuran using manganese dioxide with different crystal structures: A comparative study. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 592, 416-429	9.3	5
171	Catalytic pyrolysis of plastics derived from end-of-life-vehicles (ELVs) under the CO2 environment. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 16781-16793	4.5	3
170	E-waste management and its effects on the environment and human health. <i>Science of the Total Environment</i> , <b>2021</b> , 773, 145623	10.2	43
169	Upgrading biogas into syngas through dry reforming. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 143, 110949	16.2	32
168	The photocatalytic performance and structural characteristics of nickel cobalt ferrite nanocomposites after doping with bismuth. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 594, 902-913	9.3	4
167	Bio-oil upgrading through hydrogen transfer reactions in supercritical solvents. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126527	14.7	26
166	Environmental fate, ecotoxicity biomarkers, and potential health effects of micro- and nano-scale plastic contamination. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123910	12.8	39
165	Co-pyrolysis of food waste and wood bark to produce hydrogen with minimizing pollutant emissions. <i>Environmental Pollution</i> , <b>2021</b> , 270, 116045	9.3	19

164	Catalytic upgrading of <i>Quercus Mongolica</i> under methane environment to obtain high yield of bioaromatics. <i>Environmental Pollution</i> , <b>2021</b> , 272, 116016	9.3	4
163	Micro- and nano-plastic pollution: Behavior, microbial ecology, and remediation technologies. <i>Journal of Cleaner Production</i> , <b>2021</b> , 291, 125240	10.3	23
162	Recycling of bottom ash derived from combustion of cattle manure and its adsorption behaviors for Cd(II), Cu(II), Pb(II), and Ni(II). <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 14957-14968	5.1	3
161	Economically-feasible production of a nylon monomer using RANEY $\square$ catalysts. <i>Reaction Chemistry and Engineering</i> , <b>2021</b> , 6, 225-234	4.9	3
160	Electrospun cobalt ferrite nanofiber as a magnetic and effective heterogeneous catalyst for activating peroxymonosulfate to degrade sulfosalicylic acid. <i>Separation and Purification Technology</i> , <b>2021</b> , 259, 118163	8.3	5
159	Application of intermittent ball milling to enzymatic hydrolysis for efficient conversion of lignocellulosic biomass into glucose. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 136, 110442	16.2	20
158	Recent Advances in Renewable Polymer Production from Lignin-Derived Aldehydes. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
157	Valorization of waste tea bags via CO <sub>2</sub> -assisted pyrolysis. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 44, 101414	7.6	17
156	Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129264	14.7	8
155	Production of value-added aromatics from wasted COVID-19 mask via catalytic pyrolysis. <i>Environmental Pollution</i> , <b>2021</b> , 283, 117060	9.3	27
154	Conversion of cattle manure into functional material to remove selenate from wastewater. <i>Chemosphere</i> , <b>2021</b> , 278, 130398	8.4	9
153	Enhanced Catalytic Soot Oxidation by Ce-Based MOF-Derived Ceria Nano-Bar with Promoted Oxygen Vacancy. <i>Catalysts</i> , <b>2021</b> , 11, 1128	4	0
152	COVID-19 mask waste to energy via thermochemical pathway: Effect of Co-Feeding food waste. <i>Energy</i> , <b>2021</b> , 230, 120876	7.9	22
151	Effect of eggshell- and homo-type Ni/AlO catalysts on the pyrolysis of food waste under CO atmosphere. <i>Journal of Environmental Management</i> , <b>2021</b> , 294, 112959	7.9	2
150	Bamboo-like N-doped carbon nanotube-confined cobalt as an efficient and robust catalyst for activating monopersulfate to degrade bisphenol A. <i>Chemosphere</i> , <b>2021</b> , 279, 130569	8.4	18
149	Size-Controlled Nanoscale Octahedral HKUST-1 as an Enhanced Catalyst for Oxidative Conversion of Vanillic Alcohol: The Mediating Effect of Polyvinylpyrrolidone. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 631, 127639	5.1	0
148	Achievements in pyrolysis process in E-waste management sector. <i>Environmental Pollution</i> , <b>2021</b> , 287, 117621	9.3	5
147	Progress in microbial fuel cell technology for wastewater treatment and energy harvesting. <i>Chemosphere</i> , <b>2021</b> , 281, 130828	8.4	28

146	Chemical recycling of plastic waste via thermocatalytic routes. <i>Journal of Cleaner Production</i> , <b>2021</b> , 321, 128989	10.3	19
145	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , <b>2021</b> , 342, 126067	11	6
144	Enhanced reduction of bromate in water by 2-dimensional porous Co <sub>3</sub> O <sub>4</sub> via catalytic hydrogenation. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105809	6.8	3
143	Hierarchical ZIF-decorated nanoflower-covered 3-dimensional foam for enhanced catalytic reduction of nitrogen-containing contaminants. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 602, 95-104	8.3	2
142	Metal oxide and carbon nanomaterial based membranes for reverse osmosis and membrane distillation: A comparative review. <i>Environmental Research</i> , <b>2021</b> , 202, 111716	7.9	7
141	Hollow porous molecularly imprinted polymers as emerging adsorbents. <i>Environmental Pollution</i> , <b>2021</b> , 288, 117775	9.3	7
140	Thermochemical conversion of mulching film waste via pyrolysis with the addition of cattle excreta. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106362	6.8	2
139	Degradation of sunscreen agent 2-phenylbenzimidazole-5-sulfonic acid using monopersulfate activated by MOF-derived cobalt sulfide nanoplates. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 44, 102282	6.7	3
138	Post-synthetic modification of luminescent metal-organic frameworks using schiff base complexes for biological and chemical sensing. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 449, 214214	23.2	13
137	The competing role of moisture in adsorption of gaseous benzene on microporous carbon. <i>Separation and Purification Technology</i> , <b>2021</b> , 277, 119487	8.3	5
136	Investigating crystal plane effect of Co <sub>3</sub> O <sub>4</sub> with various morphologies on catalytic activation of monopersulfate for degradation of phenol in water. <i>Separation and Purification Technology</i> , <b>2021</b> , 276, 119368	8.3	2
135	Hydrogenation of Adiponitrile to Hexamethylenediamine over Raney Ni and Co Catalysts. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7506	2.6	3
134	Applications of Natural and Synthetic Melanins as Biosorbents and Adhesive Coatings. <i>Biotechnology and Bioprocess Engineering</i> , <b>2020</b> , 25, 646-654	3.1	5
133	Application of PANI/TiO <sub>2</sub> Composite for Photocatalytic Degradation of Contaminants from Aqueous Solution. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6710	2.6	6
132	Pyrolysis of Polyethylene Terephthalate over Carbon-Supported Pd Catalyst. <i>Catalysts</i> , <b>2020</b> , 10, 496	4	16
131	Recent achievements in CO <sub>2</sub> -assisted and CO <sub>2</sub> -catalyzed biomass conversion reactions. <i>Green Chemistry</i> , <b>2020</b> , 22, 2628-2642	10	25
130	Biochar as a catalytic material for the production of 1,4-butanediol and tetrahydrofuran from furan. <i>Environmental Research</i> , <b>2020</b> , 184, 109325	7.9	12
129	Reduction of polycyclic compounds and biphenyls generated by pyrolysis of industrial plastic waste by using supported metal catalysts: A case study of polyethylene terephthalate treatment. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122464	12.8	29

128	Pyrolysis of food waste over a Pt catalyst in CO atmosphere. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 393, 122449	12.8	21
127	Evaluating effectiveness of dust by-product treatment with scrubbers to mitigate explosion risk in ZnO atomic layer deposition process. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123284	12.8	1
126	Highly fluorescent carbon dots derived from <i>Mangifera indica</i> leaves for selective detection of metal ions. <i>Science of the Total Environment</i> , <b>2020</b> , 720, 137604	10.2	41
125	Sustainable production of alkyl esters via thermal process in the presence of carbon black. <i>Environmental Research</i> , <b>2020</b> , 183, 109199	7.9	7
124	The valorization of food waste via pyrolysis. <i>Journal of Cleaner Production</i> , <b>2020</b> , 259, 120816	10.3	68
123	Prospects of biopolymer technology as an alternative option for non-degradable plastics and sustainable management of plastic wastes. <i>Journal of Cleaner Production</i> , <b>2020</b> , 258, 120536	10.3	95
122	Solar-light-active silver phosphate/titanium dioxide/silica heterostructures for photocatalytic removal of organic dye. <i>Journal of Cleaner Production</i> , <b>2020</b> , 254, 120031	10.3	58
121	Engineered rice-straw biochar catalysts for the production of value-added chemicals from furan. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124194	14.7	17
120	Catalytic soot oxidation using hierarchical cobalt oxide microspheres with various nanostructures: Insights into relationships of morphology, property and reactivity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 124939	14.7	17
119	Enhanced catalytic performance and changed reaction chemistry for electrochemical glycerol oxidation by atomic-layer-deposited Pt-nanoparticle catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 273, 119037	21.8	11
118	A strategy for the efficient removal of chlorophenols in petrochemical wastewater by organophilic and aminated silica@alginate microbeads: Taguchi optimization and isotherm modeling based on partition coefficient. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 397, 122792	12.8	27
117	Effect of Pt catalyst on the condensable hydrocarbon content generated via food waste pyrolysis. <i>Chemosphere</i> , <b>2020</b> , 248, 126043	8.4	27
116	Numerical modelling for effect of water curtain in mitigating toxic gas release. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2020</b> , 63, 103972	3.5	5
115	Bioelectrochemical systems for a circular bioeconomy. <i>Bioresource Technology</i> , <b>2020</b> , 300, 122748	11	45
114	Metal-organic framework for sorptive/catalytic removal and sensing applications against nitroaromatic compounds. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 84, 87-95	6.3	19
113	CO <sub>2</sub> -assisted catalytic pyrolysis of digestate with steel slag. <i>Energy</i> , <b>2020</b> , 191, 116529	7.9	13
112	Effect of carbon dioxide on thermal treatment of food waste as a sustainable disposal method. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2020</b> , 36, 76-81	7.6	23
111	Nanotechnology-based sorption and membrane technologies for the treatment of petroleum-based pollutants in natural ecosystems and wastewater streams. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 275, 102071	14.3	28

110	Pyrolysis for Nylon 6 Monomer Recovery from Teabag Waste. <i>Polymers</i> , <b>2020</b> , 12,	4.5	13
109	Acid-treated waste red mud as an efficient catalyst for catalytic fast copyrolysis of lignin and polypropylene and ozone-catalytic conversion of toluene. <i>Environmental Research</i> , <b>2020</b> , 191, 110149	7.9	7
108	Catalytic Pyrolysis as a Technology to Dispose of Herbal Medicine Waste. <i>Catalysts</i> , <b>2020</b> , 10, 826	4	7
107	Reduction of nitrate to nitrite in water by acid-washed zero-valent zinc. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 761-770	2.5	3
106	Recent advances in the catalytic pyrolysis of microalgae. <i>Catalysis Today</i> , <b>2020</b> , 355, 263-271	5.3	38
105	Microwave-Assisted Catalyst-Free Oxidative Conversion of a Lignin Model Compound to Value-Added Products Using TEMPO. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 3621-3628	3.2	3
104	Experimental and theoretical studies of the schiff base (Z)-1-(thiophen-2-yl- methyleneamino) propane-2-ol. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1200, 127104	3.4	7
103	Valorization of alum sludge via a pyrolysis platform using CO as reactive gas medium. <i>Environment International</i> , <b>2019</b> , 132, 105037	12.9	14
102	Reduction of Na and K contents in bio-heavy oil using micro-/nano-sized CO <sub>2</sub> bubbles. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 34, 430-436	7.6	4
101	Catalytic pyrolysis of brown algae using carbon dioxide and oyster shell. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 34, 668-675	7.6	12
100	Upgrading bio-heavy oil via esterification of fatty acids and glycerol. <i>Journal of Cleaner Production</i> , <b>2019</b> , 217, 633-638	10.3	9
99	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. <i>Environmental Research</i> , <b>2019</b> , 171, 356-364	7.9	99
98	An energy-efficient air-breathing cathode electrocoagulation approach for the treatment of arsenite in aquatic systems. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 73, 205-213	6.3	8
97	CO-mediated chicken manure biochar manipulation for biodiesel production. <i>Environmental Research</i> , <b>2019</b> , 171, 348-355	7.9	17
96	Photocatalytic degradation performance of various types of modified TiO <sub>2</sub> against nitrophenols in aqueous systems. <i>Journal of Cleaner Production</i> , <b>2019</b> , 231, 899-912	10.3	66
95	Reductive and adsorptive elimination of bromate from water using Ru/C, Pt/C and Pd/C in the absence of H <sub>2</sub> : A comparative study. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 127, 36-44	5.5	5
94	Valorization of sewage sludge via a pyrolytic platform using carbon dioxide as a reactive gas medium. <i>Energy</i> , <b>2019</b> , 179, 163-172	7.9	15
93	Recent advances in hydrodeoxygenation of biomass-derived oxygenates over heterogeneous catalysts. <i>Green Chemistry</i> , <b>2019</b> , 21, 3715-3743	10	233

92	Renewable routes to monomeric precursors of nylon 66 and nylon 6 from food waste. <i>Journal of Cleaner Production</i> , <b>2019</b> , 227, 624-633	10.3	33
91	Modification of biochar properties using CO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 383-389	14.7	58
90	Livestock manure valorization to biochemicals and energy using CO <sub>2</sub> : A case study of goat excreta. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 30, 107-111	7.6	12
89	Synthesis of fatty acid methyl esters via non-catalytic transesterification of avocado oil with dimethyl carbonate. <i>Energy Conversion and Management</i> , <b>2019</b> , 195, 1-6	10.6	21
88	Production of bioplastic through food waste valorization. <i>Environment International</i> , <b>2019</b> , 127, 625-644	12.9	200
87	Tailoring pyrogenic products from pyrolysis of defatted <i>Euglena gracilis</i> using CO <sub>2</sub> as reactive gas medium. <i>Energy</i> , <b>2019</b> , 174, 184-190	7.9	11
86	CO as a reaction medium for pyrolysis of lignin leading to magnetic cobalt-embedded biochar as an enhanced catalyst for Oxone activation. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 545, 16-24	9.3	23
85	Biodiesel synthesis from fish waste via thermally-induced transesterification using clay as porous material. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 371, 27-32	12.8	20
84	Pyrolysis of waste feedstocks in CO <sub>2</sub> for effective energy recovery and waste treatment. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 31, 173-180	7.6	80
83	Thermolysis of crude oil sludge using CO <sub>2</sub> as reactive gas medium. <i>Energy Conversion and Management</i> , <b>2019</b> , 186, 393-400	10.6	23
82	Formation of highly porous electrochemically etched silicon carbide: A novel reusable adsorbent for air purification technology. <i>Journal of Cleaner Production</i> , <b>2019</b> , 218, 521-528	10.3	
81	Decontamination of petroleum-contaminated soil via pyrolysis under carbon dioxide atmosphere. <i>Journal of Cleaner Production</i> , <b>2019</b> , 236, 117724	10.3	17
80	Preparation and evaluation of a porous molecularly imprinted polymer for selective recognition of the antiepileptic drug carbamazepine. <i>Environmental Research</i> , <b>2019</b> , 176, 108580	7.9	12
79	Bioalcohol production from acidogenic products via a two-step process: A case study of butyric acid to butanol. <i>Applied Energy</i> , <b>2019</b> , 252, 113482	10.7	37
78	Carbon dioxide-cofeeding pyrolysis of pine sawdust over nickel-based catalyst for hydrogen production. <i>Energy Conversion and Management</i> , <b>2019</b> , 201, 112140	10.6	32
77	Eco-Toxicological and Kinetic Evaluation of TiO <sub>2</sub> and ZnO Nanophotocatalysts in Degradation of Organic Dye. <i>Catalysts</i> , <b>2019</b> , 9, 871	4	9
76	Polymers derived from hemicellulosic parts of lignocellulosic biomass. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2019</b> , 18, 317-334	13.9	36
75	Natural zeolite and its application in concrete composite production. <i>Composites Part B: Engineering</i> , <b>2019</b> , 165, 354-364	10	64



74	Production and Formation of Biochar <b>2019</b> , 3-18		12
73	Removal of phenolic compounds from industrial waste water based on membrane-based technologies. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 71, 1-18	6.3	134
72	Photocatalysts for degradation of dyes in industrial effluents: Opportunities and challenges. <i>Nano Research</i> , <b>2019</b> , 12, 955-972	10	243
71	Recently developed methods to enhance stability of heterogeneous catalysts for conversion of biomass-derived feedstocks. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1-11	2.8	77
70	Investigation into role of CO in two-stage pyrolysis of spent coffee grounds. <i>Bioresource Technology</i> , <b>2019</b> , 272, 48-53	11	20
69	Analysis of fatty acids in mouse tissue via in situ transmethylation with biochar. <i>Environmental Geochemistry and Health</i> , <b>2019</b> , 41, 1723-1728	4.7	
68	Biodiesel production from waste cooking oil using biochar derived from chicken manure as a porous media and catalyst. <i>Energy Conversion and Management</i> , <b>2018</b> , 165, 628-633	10.6	100
67	Compositional modification of products from Co-Pyrolysis of chicken manure and biomass by shifting carbon distribution from pyrolytic oil to syngas using CO <sub>2</sub> . <i>Energy</i> , <b>2018</b> , 153, 530-538	7.9	22
66	Effects of calcium carbonate on pyrolysis of sewage sludge. <i>Energy</i> , <b>2018</b> , 153, 726-731	7.9	92
65	Production of renewable C <sub>4</sub> -C <sub>6</sub> monoalcohols from waste biomass-derived carbohydrate via aqueous-phase hydrodeoxygenation over Pt-ReO <sub>x</sub> /Zr-P. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 115, 2-7	5.5	7
64	Carbon dioxide assisted thermal decomposition of cattle excreta. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 70-77	10.2	4
63	Quantification of volatile fatty acids from cattle manure via non-catalytic esterification for odour indication. <i>Science of the Total Environment</i> , <b>2018</b> , 610-611, 992-996	10.2	6
62	Elimination of bromate from water using aluminum beverage cans via catalytic reduction and adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 416-425	9.3	13
61	Controlling generation of benzenes and polycyclic aromatic hydrocarbons in thermolysis of polyvinyl chloride in CO <sub>2</sub> . <i>Energy Conversion and Management</i> , <b>2018</b> , 164, 453-459	10.6	23
60	The use of organic waste-derived volatile fatty acids as raw materials of C <sub>4</sub> -C <sub>5</sub> bioalcohols. <i>Journal of Cleaner Production</i> , <b>2018</b> , 201, 14-21	10.3	20
59	Biogas production from food waste via anaerobic digestion with wood chips. <i>Energy and Environment</i> , <b>2018</b> , 29, 1365-1372	2.4	12
58	A critical review of ferrate(VI)-based remediation of soil and groundwater. <i>Environmental Research</i> , <b>2018</b> , 160, 420-448	7.9	91
57	Enhanced accessibility of carbon in pyrolysis of brown coal using carbon dioxide. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 27, 433-440	7.6	15

56	Biowaste for environmental remediation and sustainable waste management. <i>Clean Technologies and Environmental Policy</i> , <b>2018</b> , 20, 2155-2155	4.3	
55	Production of high-octane gasoline via hydrodeoxygenation of sorbitol over palladium-based bimetallic catalysts. <i>Journal of Environmental Management</i> , <b>2018</b> , 227, 329-334	7.9	17
54	Effects of carbon dioxide on pyrolysis of peat. <i>Energy</i> , <b>2017</b> , 120, 929-936	7.9	29
53	Energy density enhancement via pyrolysis of paper mill sludge using CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 17, 305-311	7.6	22
52	The effect of lead exposure on fatty acid composition in mouse brain analyzed using pseudo-catalytic derivatization. <i>Environmental Pollution</i> , <b>2017</b> , 222, 182-190	9.3	11
51	Evaluating the susceptibility of pyrolysis of monosaccharide, disaccharide, and polysaccharide to CO <sub>2</sub> . <i>Energy Conversion and Management</i> , <b>2017</b> , 138, 338-345	10.6	18
50	Employing CO as reaction medium for in-situ suppression of the formation of benzene derivatives and polycyclic aromatic hydrocarbons during pyrolysis of simulated municipal solid waste. <i>Environmental Pollution</i> , <b>2017</b> , 224, 476-483	9.3	26
49	Evaluating the effectiveness of various biochars as porous media for biodiesel synthesis via pseudo-catalytic transesterification. <i>Bioresource Technology</i> , <b>2017</b> , 231, 59-64	11	36
48	Study on susceptibility of CO <sub>2</sub> -assisted pyrolysis of various biomass to CO <sub>2</sub> . <i>Energy</i> , <b>2017</b> , 137, 510-517	7.9	33
47	Biochar as porous media for thermally-induced non-catalytic transesterification to synthesize fatty acid ethyl esters from coconut oil. <i>Energy Conversion and Management</i> , <b>2017</b> , 145, 308-313	10.6	15
46	The role of algae and cyanobacteria in the production and release of odorants in water. <i>Environmental Pollution</i> , <b>2017</b> , 227, 252-262	9.3	84
45	Rapid biodiesel synthesis from waste pepper seeds without lipid isolation step. <i>Bioresource Technology</i> , <b>2017</b> , 239, 17-20	11	23
44	Enhanced energy recovery from polyethylene terephthalate via pyrolysis in CO <sub>2</sub> atmosphere while suppressing acidic chemical species. <i>Energy Conversion and Management</i> , <b>2017</b> , 148, 456-460	10.6	22
43	Strategic CO <sub>2</sub> utilization for shifting carbon distribution from pyrolytic oil to syngas in pyrolysis of food waste. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 20, 150-155	7.6	28
42	Modification of hydrothermal liquefaction products from <i>Arthrospira platensis</i> by using carbon dioxide. <i>Algal Research</i> , <b>2017</b> , 24, 148-153	5	7
41	Functional modification of hydrothermal liquefaction products of microalgal biomass using CO <sub>2</sub> . <i>Energy</i> , <b>2017</b> , 137, 412-418	7.9	7
40	Biochar as a Catalyst. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 77, 70-79	16.2	320
39	Sustainable approach to biodiesel synthesis via thermally induced transesterification using biochar as surrogate porous media. <i>Energy Conversion and Management</i> , <b>2017</b> , 151, 601-606	10.6	7

38	Strategic use of CO <sub>2</sub> for co-pyrolysis of swine manure and coal for energy recovery and waste disposal. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 22, 110-116	7.6	16
37	Rapid conversion of fat, oil and grease (FOG) into biodiesel without pre-treatment of FOG. <i>Journal of Cleaner Production</i> , <b>2017</b> , 168, 1211-1216	10.3	15
36	Methylation of Volatile Fatty Acids with Ordered Mesoporous Carbon and Carbon Nanotube for Renewable Energy Application. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7433-7438	8.3	21
35	Utilizing CO <sub>2</sub> to suppress the generation of harmful chemicals from thermal degradation of polyvinyl chloride. <i>Journal of Cleaner Production</i> , <b>2017</b> , 162, 1465-1471	10.3	20
34	Using CO <sub>2</sub> to mitigate evolution of harmful chemical compounds during thermal degradation of printed circuit boards. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 20, 66-72	7.6	17
33	Biodiesel synthesis using chicken manure biochar and waste cooking oil. <i>Bioresource Technology</i> , <b>2017</b> , 244, 810-815	11	35
32	Establishing a green platform for biodiesel synthesis via strategic utilization of biochar and dimethyl carbonate. <i>Bioresource Technology</i> , <b>2017</b> , 241, 1178-1181	11	13
31	Quantification and speciation of volatile fatty acids in the aqueous phase. <i>Environmental Pollution</i> , <b>2017</b> , 230, 81-86	9.3	7
30	Enhancement of energy recovery from chicken manure by pyrolysis in carbon dioxide. <i>Journal of Cleaner Production</i> , <b>2017</b> , 164, 146-152	10.3	26
29	Coproducing Value-Added Chemicals and Hydrogen with Electrocatalytic Glycerol Oxidation Technology: Experimental and Techno-Economic Investigations. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 6626-6634	8.3	41
28	A critical review on sustainable biochar system through gasification: Energy and environmental applications. <i>Bioresource Technology</i> , <b>2017</b> , 246, 242-253	11	188
27	Pyrolysis process of agricultural waste using CO <sub>2</sub> for waste management, energy recovery, and biochar fabrication. <i>Applied Energy</i> , <b>2017</b> , 185, 214-222	10.7	142
26	Pyrolysis of wastes generated through saccharification of oak tree by using CO <sub>2</sub> as reaction medium. <i>Applied Thermal Engineering</i> , <b>2017</b> , 110, 335-345	5.8	36
25	Estimating total lipid content of <i>Camelina sativa</i> via pyrolysis assisted in-situ transesterification with dimethyl carbonate. <i>Bioresource Technology</i> , <b>2017</b> , 225, 121-126	11	20
24	Fabrication of a novel magnetic carbon nanocomposite adsorbent via pyrolysis of sugar. <i>Chemosphere</i> , <b>2016</b> , 163, 305-312	8.4	24
23	Enhanced thermal destruction of toxic microalgal biomass by using CO <sub>2</sub> . <i>Science of the Total Environment</i> , <b>2016</b> , 566-567, 575-583	10.2	13
22	Pyrogenic transformation of <i>Nannochloropsis oceanica</i> into fatty acid methyl esters without oil extraction for estimating total lipid content. <i>Bioresource Technology</i> , <b>2016</b> , 212, 55-61	11	25
21	Carbon dioxide assisted co-pyrolysis of coal and ligno-cellulosic biomass. <i>Energy Conversion and Management</i> , <b>2016</b> , 118, 243-252	10.6	40

20	Pt catalysts for efficient aerobic oxidation of glucose to glucaric acid in water. <i>Green Chemistry</i> , <b>2016</b> , 18, 3815-3822	10	64
19	Biodiesel Conversion via Thermal Assisted in-Situ Transesterification of Bovine Fat Using Dimethyl Carbonate as an Acyl Acceptor. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5600-5605	8.3	13
18	Pyrolysis of FeCl <sub>3</sub> -pretreated spent coffee grounds using CO <sub>2</sub> as a reaction medium. <i>Energy Conversion and Management</i> , <b>2016</b> , 127, 437-442	10.6	33
17	In-situ pyrogenic production of biodiesel from swine fat. <i>Bioresource Technology</i> , <b>2016</b> , 220, 442-447	11	21
16	Pyrogenic transformation of oil-bearing biomass into biodiesel without lipid extraction. <i>Energy Conversion and Management</i> , <b>2016</b> , 123, 317-323	10.6	25
15	Tuning Acid-Base Properties Using Mg-Al Oxide Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16573-80	9.5	10
14	Stabilizing cobalt catalysts for aqueous-phase reactions by strong metal-support interaction. <i>Journal of Catalysis</i> , <b>2015</b> , 330, 19-27	7.3	87
13	Enhanced Activity and Stability of TiO <sub>2</sub> -Coated Cobalt/Carbon Catalysts for Electrochemical Water Oxidation. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3463-3469	13.1	42
12	Catalyst Design with Atomic Layer Deposition. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1804-1825	13.1	483
11	Selective glycerol oxidation by electrocatalytic dehydrogenation. <i>ChemSusChem</i> , <b>2014</b> , 7, 1051-6	8.3	46
10	Enhanced stability of cobalt catalysts by atomic layer deposition for aqueous-phase reactions. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1657	35.4	99
9	Aqueous-phase hydrogenation and hydrodeoxygenation of biomass-derived oxygenates with bimetallic catalysts. <i>Green Chemistry</i> , <b>2014</b> , 16, 708	10	99
8	Modeling aqueous-phase hydrodeoxygenation of sorbitol over Pt/SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>RSC Advances</i> , <b>2013</b> , 3, 23769	3.7	29
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6	The electrocatalytic hydrogenation of furanic compounds in a continuous electrocatalytic membrane reactor. <i>Green Chemistry</i> , <b>2013</b> , 15, 1869	10	83
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