

# Yiu-Fai Tsang

## List of Publications by Year in descending order

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Version: 2024-02-01

187  
papers

8,962  
citations

57719

44  
h-index

51562

86  
g-index

192  
all docs

192  
docs citations

192  
times ranked

10309  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metals in food crops: Health risks, fate, mechanisms, and management. <i>Environment International</i> , 2019, 125, 365-385.	4.8	1,135
2	Occurrences and removal of pharmaceuticals and personal care products (PPCPs) in drinking water and water/sewage treatment plants: A review. <i>Science of the Total Environment</i> , 2017, 596-597, 303-320.	3.9	1,131
3	Production of bioplastic through food waste valorization. <i>Environment International</i> , 2019, 127, 625-644.	4.8	328
4	Engineered/designer biochar for the removal of phosphate in water and wastewater. <i>Science of the Total Environment</i> , 2018, 616-617, 1242-1260.	3.9	254
5	Assessing optimal fermentation type for bio-hydrogen production in continuous-flow acidogenic reactors. <i>Bioresource Technology</i> , 2007, 98, 1774-1780.	4.8	251
6	Designer carbon nanotubes for contaminant removal in water and wastewater: A critical review. <i>Science of the Total Environment</i> , 2018, 612, 561-581.	3.9	237
7	Performance study of ceramic microfiltration membrane for oily wastewater treatment. <i>Chemical Engineering Journal</i> , 2007, 128, 169-175.	6.6	231
8	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils – To mobilize or to immobilize or to degrade?. <i>Journal of Hazardous Materials</i> , 2021, 401, 123892.	6.5	169
9	Regeneration, degradation, and toxicity effect of MOFs: Opportunities and challenges. <i>Environmental Research</i> , 2019, 176, 108488.	3.7	167
10	Progress on nanostructured electrochemical sensors and their recognition elements for detection of mycotoxins: A review. <i>Biosensors and Bioelectronics</i> , 2018, 121, 205-222.	5.3	163
11	Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 549-611.	6.6	143
12	Plant litter composition selects different soil microbial structures and in turn drives different litter decomposition pattern and soil carbon sequestration capability. <i>Geoderma</i> , 2018, 319, 194-203.	2.3	135
13	A critical review of ferrate(VI)-based remediation of soil and groundwater. <i>Environmental Research</i> , 2018, 160, 420-448.	3.7	126
14	Dissolved organic matter characterization of biochars produced from different feedstock materials. <i>Journal of Environmental Management</i> , 2019, 233, 393-399.	3.8	104
15	Recently developed methods to enhance stability of heterogeneous catalysts for conversion of biomass-derived feedstocks. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1-11.	1.2	96
16	Transformation of dissolved organic matter in concentrated leachate from nanofiltration during ozone-based oxidation processes ( $O_3$ , $O_3/H_2O_2$ and $O_3/UV$ ). <i>Journal of Environmental Management</i> , 2017, 191, 244-251.	3.8	89
17	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.	6.6	84
18	Simultaneous production of syngas and magnetic biochar via pyrolysis of paper mill sludge using $CO_2$ as reaction medium. <i>Energy Conversion and Management</i> , 2017, 145, 1-9.	4.4	80

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19	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.	2.7	80
20	Occurrence and fate of antibiotics in a wastewater treatment plant and their biological effects on receiving waters in Guizhou. <i>Chemical Engineering Research and Design</i> , 2018, 113, 483-490.	2.7	79
21	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111791.	8.2	78
22	Polyamide 6 microplastics facilitate methane production during anaerobic digestion of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021, 408, 127251.	6.6	75
23	Biogenic synthesis of silver nanoparticles and its photocatalytic applications for removal of organic pollutants in water. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 247-257.	2.9	70
24	Synthesis of functionalised biochar using red mud, lignin, and carbon dioxide as raw materials. <i>Chemical Engineering Journal</i> , 2019, 361, 1597-1604.	6.6	68
25	Potential applications of graphene-based nanomaterials as adsorbent for removal of volatile organic compounds. <i>Environment International</i> , 2020, 135, 105356.	4.8	68
26	Competitive sorption and availability of coexisting heavy metals in mining-contaminated soil: Contrasting effects of mesquite and fishbone biochars. <i>Environmental Research</i> , 2020, 181, 108846.	3.7	67
27	Production of value-added aromatics from wasted COVID-19 mask via catalytic pyrolysis. <i>Environmental Pollution</i> , 2021, 283, 117060.	3.7	66
28	Optimization of biological treatment of paper mill effluent in a sequencing batch reactor. <i>Biochemical Engineering Journal</i> , 2007, 34, 193-199.	1.8	65
29	Catalytic ozonation of toluene using Mn <sup>II</sup> -M bimetallic HZSM-5 (M: Fe, Cu, Ru, Ag) catalysts at room temperature. <i>Journal of Hazardous Materials</i> , 2020, 397, 122577.	6.5	64
30	Occurrence and removal of microplastics in wastewater treatment plants and drinking water purification facilities: A review. <i>Chemical Engineering Journal</i> , 2021, 410, 128381.	6.6	62
31	High-pressure CO <sub>2</sub> hydrothermal pretreatment of peanut shells for enzymatic hydrolysis conversion into glucose. <i>Chemical Engineering Journal</i> , 2020, 385, 123949.	6.6	60
32	Manganese oxide-modified biochar: production, characterization and applications for the removal of pollutants from aqueous environments - a review. <i>Bioresource Technology</i> , 2022, 346, 126581.	4.8	60
33	Evaluating the feasibility of pyrophyllite-based ceramic membranes for treating domestic wastewater in anaerobic ceramic membrane bioreactors. <i>Chemical Engineering Journal</i> , 2017, 328, 567-573.	6.6	56
34	Differences in Sb(V) and As(V) adsorption onto a poorly crystalline phyllosilicate (Î-MnO <sub>2</sub> ): Adsorption kinetics, isotherms, and mechanisms. <i>Chemical Engineering Research and Design</i> , 2018, 113, 40-47.	2.7	56
35	Effective stabilization of arsenic in contaminated soils with biogenic manganese oxide (BMO) materials. <i>Environmental Pollution</i> , 2020, 258, 113481.	3.7	54
36	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.	6.6	50

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37	Recent progress on solution and materials chemistry for the removal of hydrogen sulfide from various gas plants. <i>Journal of Molecular Liquids</i> , 2020, 297, 111886.	2.3	50
38	N doped cobalt-carbon composite for reduction of p-nitrophenol and pendimethaline. <i>Journal of Alloys and Compounds</i> , 2017, 703, 118-124.	2.8	49
39	Salinity and nutrient contents of tidal water affects soil respiration and carbon sequestration of high and low tidal flats of Jiuduansha wetlands in different ways. <i>Science of the Total Environment</i> , 2016, 565, 637-648.	3.9	48
40	Design and composition of synthetic fungal-bacterial microbial consortia that improve lignocellulolytic enzyme activity. <i>Bioresource Technology</i> , 2017, 227, 247-255.	4.8	48
41	Inhibitory effects of phenolic compounds of rice straw formed by saccharification during ethanol fermentation by <i>Pichia stipitis</i> . <i>Bioresource Technology</i> , 2017, 244, 1059-1067.	4.8	48
42	Synthesis of PHAs from waster under various C:N ratios. <i>Bioresource Technology</i> , 2007, 98, 1690-1693.	4.8	47
43	Simultaneous hydrogen sulphide and ammonia removal in a biotrickling filter: Crossed inhibitory effects among selected pollutants and microbial community change. <i>Chemical Engineering Journal</i> , 2015, 281, 389-396.	6.6	47
44	Improved methane production and energy recovery of post-hydrothermal liquefaction waste water via integration of zeolite adsorption and anaerobic digestion. <i>Science of the Total Environment</i> , 2019, 651, 61-69.	3.9	47
45	Performance study of vegetated sequencing batch coal slag bed treating domestic wastewater in suburban area. <i>Bioresource Technology</i> , 2008, 99, 3774-3781.	4.8	46
46	N- and O self-doped biomass porous carbon cathode in an electro-Fenton system for Chloramphenicol degradation. <i>Separation and Purification Technology</i> , 2020, 251, 117376.	3.9	43
47	Comparative study on <i>Cronobacter sakazakii</i> and <i>Pseudomonas otitidis</i> isolated from septic tank wastewater in microbial fuel cell for bioelectricity generation. <i>Fuel</i> , 2019, 248, 47-55.	3.4	40
48	Advancements of nanotechnologies in crop promotion and soil fertility: Benefits, life cycle assessment, and legislation policies. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111686.	8.2	40
49	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.	6.5	40
50	Variable decomposition of two plant litters and their effects on the carbon sequestration ability of wetland soil in the Yangtze River estuary. <i>Geoderma</i> , 2018, 319, 230-238.	2.3	39
51	Use of rice straw-based biochar for batch sorption of barium/strontium from saline water: Protection against scale formation in petroleum/desalination industries. <i>Journal of Cleaner Production</i> , 2020, 250, 119442.	4.6	39
52	Effects of COD/SO <sub>4</sub> <sup>2-</sup> -Ratios on an Acidogenic Sulfate-Reducing Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 1661-1666.	1.8	38
53	Domestic wastewater treatment using batch-fed constructed wetland and predictive model development for NH <sub>3</sub> -N removal. <i>Process Biochemistry</i> , 2008, 43, 297-305.	1.8	38
54	Co-feeding effect of waste plastic films on the catalytic pyrolysis of <i>Quercus variabilis</i> over microporous HZSM-5 and HY catalysts. <i>Chemical Engineering Journal</i> , 2019, 378, 122151.	6.6	38

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55	In-situ hydrogenation of bio-oil/bio-oil phenolic compounds with secondary alcohols over a synthesized mesoporous Ni/CeO <sub>2</sub> catalyst. <i>Chemical Engineering Journal</i> , 2020, 382, 122912.	6.6	38
56	Recent Advances in Nanomaterial-Based Human Breath Analytical Technology for Clinical Diagnosis and the Way Forward. <i>CheM</i> , 2019, 5, 3020-3057.	5.8	37
57	Sorption of pharmaceuticals and personal care products (PPCPs) from water and wastewater by carbonaceous materials: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 727-766.	6.6	37
58	Functional use of CO <sub>2</sub> for environmentally benign production of hydrogen through catalytic pyrolysis of polymeric waste. <i>Chemical Engineering Journal</i> , 2020, 399, 125889.	6.6	37
59	Employing CO <sub>2</sub> 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> , 2017, 224, 476-483.	3.7	35
60	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> , 2017, 148, 456-460.	4.4	35
61	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.	4.6	35
62	Biodiesel production from black soldier fly larvae derived from food waste by non-catalytic transesterification. <i>Energy</i> , 2022, 238, 121700.	4.5	35
63	Utilization of the saccharification residue of rice straw in the preparation of biochar is a novel strategy for reducing CO <sub>2</sub> emissions. <i>Science of the Total Environment</i> , 2019, 650, 1141-1148.	3.9	34
64	Stochastic modeling of chlorophyll-a for probabilistic assessment and monitoring of algae blooms in the Lower Nakdong River, South Korea. <i>Journal of Hazardous Materials</i> , 2020, 400, 123066.	6.5	34
65	Engineered rice-straw biochar catalysts for the production of value-added chemicals from furan. <i>Chemical Engineering Journal</i> , 2020, 387, 124194.	6.6	34
66	Salinity influence on soil microbial respiration rate of wetland in the Yangtze River estuary through changing microbial community. <i>Journal of Environmental Sciences</i> , 2014, 26, 2562-2570.	3.2	33
67	The influence of soluble polysaccharides derived from rice straw upon cellulase production by <i>Trichoderma reesei</i> . <i>Process Biochemistry</i> , 2017, 61, 130-136.	1.8	33
68	Appraisal of lignocellulosic biomass degrading potential of three earthworm species using vermireactor mediated with spent mushroom substrate: Compost quality, crystallinity, and microbial community structural analysis. <i>Science of the Total Environment</i> , 2020, 716, 135215.	3.9	31
69	Responses of Soil Microbial Community Structure and Activity to Incorporation of Straws and Straw Biochars and Their Effects on Soil Respiration and Soil Organic Carbon Turnover. <i>Pedosphere</i> , 2019, 29, 492-503.	2.1	30
70	Catalytic pyrolytic platform for scrap tires using CO <sub>2</sub> and steel slag. <i>Applied Energy</i> , 2020, 259, 114164.	5.1	30
71	Efficacy of electrode position in microbial fuel cell for simultaneous Cr(VI) reduction and bioelectricity production. <i>Science of the Total Environment</i> , 2020, 748, 141425.	3.9	30
72	CO <sub>2</sub> to fuel via pyrolysis of banana peel. <i>Chemical Engineering Journal</i> , 2020, 392, 123774.	6.6	29

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73	Nocardia foaming control in activated sludge process treating domestic wastewater. <i>Bioresource Technology</i> , 2008, 99, 3381-3388.	4.8	28
74	Phenolic acids derived from rice straw generate peroxides which reduce the viability of <i>Staphylococcus aureus</i> cells in biofilm. <i>Industrial Crops and Products</i> , 2019, 140, 111561.	2.5	28
75	A new biorefinery platform for producing (C2-5) bioalcohols through the biological/chemical hybridization process. <i>Bioresource Technology</i> , 2020, 311, 123568.	4.8	28
76	Adsorptive removal of Sb(III) from wastewater by environmentally-friendly biogenic manganese oxide (BMO) materials: Efficiency and mechanisms. <i>Chemical Engineering Research and Design</i> , 2019, 124, 223-230.	2.7	27
77	A novel technology for bulking control in biological wastewater treatment plant for pulp and paper making industry. <i>Biochemical Engineering Journal</i> , 2006, 32, 127-134.	1.8	26
78	Energy density enhancement via pyrolysis of paper mill sludge using CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 17, 305-311.	3.3	26
79	Production of polyhydroxyalkanoates (PHA) using sludge from different wastewater treatment processes and the potential for medical and pharmaceutical applications. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1779-1791.	1.2	26
80	Preparation of nitrogen-doped Cu-biochar and its application into catalytic reduction of p-nitrophenol. <i>Environmental Geochemistry and Health</i> , 2019, 41, 1729-1737.	1.8	25
81	Turning date palm waste into carbon nanodots and nano zerovalent iron composites for excellent removal of methylthioninium chloride from water. <i>Scientific Reports</i> , 2020, 10, 16125.	1.6	25
82	Treatment of odorous volatile fatty acids using a biotrickling filter. <i>Bioresource Technology</i> , 2008, 99, 589-595.	4.8	24
83	A comprehensive review of anaerobic digestion of organic solid wastes in relation to microbial community and enhancement process. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 507-516.	1.7	24
84	Perfluorooctanoic acid triggers oxidative stress in anaerobic digestion of sewage sludge. <i>Journal of Hazardous Materials</i> , 2022, 424, 127418.	6.5	24
85	<i>Scenedesmus quadricauda</i> for Nutrient Removal and Lipid Production in Wastewater. <i>Water Environment Research</i> , 2015, 87, 2037-2044.	1.3	23
86	In-situ pyrogenic production of biodiesel from swine fat. <i>Bioresource Technology</i> , 2016, 220, 442-447.	4.8	23
87	A wastewater bacterium <i>Bacillus</i> sp. KUJM2 acts as an agent for remediation of potentially toxic elements and promoter of plant ( <i>Lens culinaris</i> ) growth. <i>Chemosphere</i> , 2019, 232, 439-452.	4.2	23
88	Investigation into role of CO <sub>2</sub> in two-stage pyrolysis of spent coffee grounds. <i>Bioresource Technology</i> , 2019, 272, 48-53.	4.8	23
89	Progress and Challenges on Battery Waste Management :A Critical Review. <i>ChemistrySelect</i> , 2020, 5, 6182-6193.	0.7	23
90	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> , 2017, 22, 110-116.	3.3	22

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91	Influence of rice straw-derived dissolved organic matter on lactic acid fermentation by <i>Rhizopus oryzae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 703-709.	1.1	22
92	Compositional modification of pyrogenic products using CaCO <sub>3</sub> and CO <sub>2</sub> from the thermolysis of polyvinyl chloride (PVC). <i>Green Chemistry</i> , 2018, 20, 1583-1593.	4.6	22
93	CO <sub>2</sub> -cofeeding catalytic pyrolysis of macadamia nutshell. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 37, 97-105.	3.3	22
94	Fabrication and evaluation of silica embedded and zerovalent iron composited biochars for arsenate removal from water. <i>Environmental Pollution</i> , 2020, 266, 115256.	3.7	22
95	Pelletized adsorbent of alum sludge and bentonite for removal of arsenic. <i>Environmental Pollution</i> , 2021, 277, 116747.	3.7	22
96	A microscopic and spectroscopic study of rapid antimonite sequestration by a poorly crystalline phyllo-manganate: differences from passivated arsenite oxidation. <i>RSC Advances</i> , 2017, 7, 38377-38386.	1.7	21
97	Fate of bisphenol A, perfluorooctanoic acid and perfluorooctanesulfonate in two different types of sewage treatment works in Hong Kong. <i>Chemosphere</i> , 2018, 190, 358-367.	4.2	21
98	CO <sub>2</sub> -assisted catalytic pyrolysis of digestate with steel slag. <i>Energy</i> , 2020, 191, 116529.	4.5	21
99	Biogas production from food waste via anaerobic digestion with wood chips. <i>Energy and Environment</i> , 2018, 29, 1365-1372.	2.7	20
100	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. <i>Journal of Hazardous Materials</i> , 2021, 416, 125968.	6.5	20
101	Functional use of CO <sub>2</sub> to mitigate the formation of bisphenol A in catalytic pyrolysis of polycarbonate. <i>Journal of Hazardous Materials</i> , 2022, 423, 126992.	6.5	20
102	Progress in thermochemical conversion of aquatic weeds in shellfish aquaculture for biofuel generation: Technical and economic perspectives. <i>Bioresource Technology</i> , 2022, 344, 126202.	4.8	20
103	Evaluating the susceptibility of pyrolysis of monosaccharide, disaccharide, and polysaccharide to CO <sub>2</sub> . <i>Energy Conversion and Management</i> , 2017, 138, 338-345.	4.4	19
104	Synergistic effects of CO <sub>2</sub> on ex situ catalytic pyrolysis of lignocellulosic biomass over a Ni/SiO <sub>2</sub> catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 39, 101182.	3.3	19
105	Interactions Between Autotrophic and Heterotrophic Strains Improve CO <sub>2</sub> Fixing Efficiency of Non-photosynthetic Microbial Communities. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 1459-1471.	1.4	18
106	Surfactant-modified Zn/Al-layered double hydroxides for efficient extraction of alkyl phenols from aqueous samples. <i>Environmental Research</i> , 2019, 177, 108605.	3.7	18
107	Leveraging carbon dioxide to control the H <sub>2</sub> /CO ratio in catalytic pyrolysis of fishing net waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110559.	8.2	18
108	Virtuous utilization of biochar and carbon dioxide in the thermochemical process of dairy cattle manure. <i>Chemical Engineering Journal</i> , 2021, 416, 129110.	6.6	18

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109	Effective stabilization of antimony in Waste-to-Energy fly ash with recycled laboratory iron-rich residuals. <i>Journal of Cleaner Production</i> , 2019, 230, 685-693.	4.6	17
110	Effect of Phenolic Acids Derived from Rice Straw on <i>Botrytis cinerea</i> and Infection on Tomato. <i>Waste and Biomass Valorization</i> , 2020, 11, 6555-6563.	1.8	17
111	Upgrading bio-heavy oil via esterification of fatty acids and glycerol. <i>Journal of Cleaner Production</i> , 2019, 217, 633-638.	4.6	16
112	Fabricating biogenic Fe(III) flocs from municipal sewage sludge using NAFO processes: Characterization and arsenic removal ability. <i>Journal of Environmental Management</i> , 2019, 231, 268-274.	3.8	16
113	Fabrication of carbon-slag composite via a pyrolytic platform and its environmental application for arsenic removal as a case study. <i>Chemical Engineering Journal</i> , 2019, 361, 1630-1639.	6.6	16
114	Nanoneedle-Assembled Copper/Cobalt sulfides on nickel foam as an enhanced 3D hierarchical catalyst to activate monopersulfate for Rhodamine b degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 168-181.	5.0	16
115	Response of <i>cbb</i> gene transcription levels of four typical sulfur-oxidizing bacteria to the CO <sub>2</sub> concentration and its effect on their carbon fixation efficiency during sulfur oxidation. <i>Enzyme and Microbial Technology</i> , 2016, 92, 31-40.	1.6	15
116	Release of Polyphenols Is the Major Factor Influencing the Bioconversion of Rice Straw to Lactic Acid. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 685-698.	1.4	15
117	Tapping the Bioactivity Potential of Residual Stream from Its Pretreatments May Be a Green Strategy for Low-Cost Bioconversion of Rice Straw. <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 507-524.	1.4	15
118	Inhibitory effect of self-generated extracellular dissolved organic carbon on carbon dioxide fixation in sulfur-oxidizing bacteria during a chemoautotrophic cultivation process and its elimination. <i>Bioresource Technology</i> , 2018, 252, 44-51.	4.8	15
119	Valorization of animal manure: A case study of bioethanol production from horse manure. <i>Chemical Engineering Journal</i> , 2021, 403, 126345.	6.6	15
120	Removal of ammonium, phosphate, and sulfonamide antibiotics using alum sludge and low-grade charcoal pellets. <i>Chemosphere</i> , 2021, 281, 130960.	4.2	15
121	Synergistic effects of CO <sub>2</sub> on complete thermal degradation of plastic waste mixture through a catalytic pyrolysis platform: A case study of disposable diaper. <i>Journal of Hazardous Materials</i> , 2021, 419, 126537.	6.5	15
122	Domestic wastewater treatment using tidal-flow cinder bed with <i>Cyperus alternifolius</i> . <i>Aquatic Ecosystem Health and Management</i> , 2008, 11, 206-211.	0.3	14
123	Saccharides in straw hydrolysate decrease cell membrane damage by phenolics by inducing the formation of extracellular matrix in yeast. <i>Carbohydrate Polymers</i> , 2019, 219, 414-422.	5.1	14
124	Use of steel slag as a catalyst in CO <sub>2</sub> -cofeeding pyrolysis of pine sawdust. <i>Journal of Hazardous Materials</i> , 2020, 392, 122275.	6.5	14
125	The variability in carbon fixation characteristics of several typical chemoautotrophic bacteria at low and high concentrations of CO <sub>2</sub> and its mechanism. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 105-112.	1.9	13
126	Influence of reduced sulfur on carbon fixation efficiency of <i>Halotheiobacillus neapolitanus</i> and its mechanism. <i>Chemical Engineering Journal</i> , 2017, 326, 249-256.	6.6	13



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127	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.	4.6	13
128	Cultivation of <i>Chlorella vulgaris</i> in Column Photobioreactor for Biomass Production and Lipid Accumulation. <i>Water Environment Research</i> , 2016, 88, 40-46.	1.3	12
129	Optimization of acid pretreatment and enzymatic hydrolysis on the production of ethanol fuel from waste banana peels. <i>Energy and Environment</i> , 2018, 29, 1354-1364.	2.7	12
130	Adsorption capacities of poorly crystalline Fe minerals for antimonate and arsenate removal from water: adsorption properties and effects of environmental and chemical conditions. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2169-2179.	2.1	12
131	Sustainable sludge management by removing emerging contaminants from urban wastewater using carbon nanotubes. , 2019, , 553-571.		12
132	A new upgrading platform for livestock lignocellulosic waste into syngas using CO <sub>2</sub> -assisted thermo-chemical process. <i>Energy Conversion and Management</i> , 2021, 236, 114084.	4.4	12
133	Biorefining Waste Sludge From Water and Sewage Treatment Plants Into Eco-Construction Material. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	11
134	Extraction of Flavonoids from the Saccharification of Rice Straw Is an Integrated Process for Straw Utilization. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 249-261.	1.4	11
135	Control of the fate of toxic pollutants from catalytic pyrolysis of polyurethane by oxidation using CO <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2022, 442, 136358.	6.6	11
136	Pilot-scale investigation of sludge reduction in aerobic digestion system with endospore-forming bacteria. <i>Chemosphere</i> , 2017, 186, 202-208.	4.2	10
137	Effective removal of contaminants from biotreated leachate by a combined Fe(III)/O <sub>3</sub> process: Efficiency and mechanisms. <i>Journal of Cleaner Production</i> , 2020, 276, 123379.	4.6	10
138	Mitigation of harmful chemical formation from pyrolysis of tobacco waste using CO <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2021, 401, 123416.	6.5	10
139	Pharmaceuticals and personal care products (PPCPs) impact on enriched nitrifying cultures. <i>Environmental Science and Pollution Research</i> , 2021, 28, 60968-60980.	2.7	10
140	Valorization of a spent lithium-ion battery electrolyte through syngas formation using CO <sub>2</sub> -assisted catalytic thermolysis over a battery cathode material. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 50, 101591.	3.3	10
141	Hollow porous cobalt oxide nanobox as an enhanced for activating monopersulfate to degrade 2-hydroxybenzoic acid in water. <i>Chemosphere</i> , 2022, 294, 133441.	4.2	10
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