

Xiaohu Dai

List of Publications by Year in descending order

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259
papers

12,742
citations

30070

54
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33894

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259
all docs

259
docs citations

259
times ranked

8045
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into multisource sludge distributed in the Yangtze River basin, China: Characteristics, correlation, treatment and disposal. <i>Journal of Environmental Sciences</i> , 2023, 126, 321-332.	6.1	4
2	Microbial production of lactic acid from food waste: Latest advances, limits, and perspectives. <i>Bioresource Technology</i> , 2022, 345, 126052.	9.6	38
3	Responses of methane production, microbial community and antibiotic resistance genes to the mixing ratio of gentamicin mycelial residues and wheat straw in anaerobic co-digestion process. <i>Science of the Total Environment</i> , 2022, 806, 150488.	8.0	11
4	Developing "precise-acting" strategies for improving anaerobic methanogenesis of organic waste: Insights from the electron transfer system of syntrophic partners. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	6.0	5
5	Enhancing short-term ethanol-type fermentation of waste activated sludge by adding saccharomycetes and the implications for bioenergy and resource recovery. <i>Journal of Environmental Sciences</i> , 2022, 113, 179-189.	6.1	9
6	Hyperthermophilic pretreatment composting to produce high quality sludge compost with superior humification degree and nitrogen retention. <i>Chemical Engineering Journal</i> , 2022, 429, 132247.	12.7	36
7	Novel micro-granular sludge process for highly efficient treatment of low-strength and low C/N ratio municipal wastewater. <i>Chemosphere</i> , 2022, 287, 132322.	8.2	11
8	Insight into the evolution of antibiotic resistance genes and microbial community during spiramycin fermentation residue composting process after thermally activated peroxydisulfate pretreatment. <i>Journal of Hazardous Materials</i> , 2022, 424, 127287.	12.4	6
9	Corn cob ash boosts fermentative hydrogen production from waste activated sludge. <i>Science of the Total Environment</i> , 2022, 807, 151064.	8.0	12
10	Erythromycin stimulates rather than inhibits methane production in anaerobic digestion of antibiotic fermentation dregs. <i>Science of the Total Environment</i> , 2022, 807, 151007.	8.0	16
11	Implications for mitigation of antibiotic resistance: Differential response of intracellular and extracellular antibiotic resistance genes to sludge fermentation coupled with thermal hydrolysis. <i>Water Research</i> , 2022, 209, 117876.	11.3	16
12	Unveiling the distinctive role of titanium dioxide nanoparticles in aerobic sludge digestion. <i>Science of the Total Environment</i> , 2022, 813, 151872.	8.0	3
13	Thermal Hydrolysis Pretreatment-Anaerobic Digestion Promotes Plant-Growth Biostimulants Production from Sewage Sludge by Upregulating Aromatic Amino Acids Transformation and Quinones Supply. <i>Environmental Science & Technology</i> , 2022, 56, 1938-1950.	10.0	22
14	Interactions between virus surrogates and sewage sludge vary by viral analyte: Recovery, persistence, and sorption. <i>Water Research</i> , 2022, 210, 117995.	11.3	23
15	Calcium peroxide significantly enhances volatile solids destruction in aerobic sludge digestion through improving sludge biodegradability. <i>Bioresource Technology</i> , 2022, 346, 126655.	9.6	18
16	Highly efficient solid-liquid separation of anaerobically digested liquor of food waste: Conditioning approach screening and mechanistic analysis. <i>Science of the Total Environment</i> , 2022, 811, 152416.	8.0	4
17	The three-stage effect of hydrothermal treatment on sludge physical-chemical properties: Evolution of polymeric substances and their interaction with physicochemical properties. <i>Water Research</i> , 2022, 211, 118043.	11.3	41
18	Zero valent iron greatly improves sludge destruction and nitrogen removal in aerobic sludge digestion. <i>Chemical Engineering Journal</i> , 2022, 433, 134459.	12.7	6

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19	High Proton Conductivity of MOF-808 Promotes Methane Production in Anaerobic Digestion. ACS Sustainable Chemistry and Engineering, 2022, 10, 1419-1429.	6.7	14
20	Alkaline thermal hydrolysis of sewage sludge to produce high-quality liquid fertilizer rich in nitrogen-containing plant-growth-promoting nutrients and biostimulants. Water Research, 2022, 211, 118036.	11.3	29
21	Cation exchange resin pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. Water Research, 2022, 212, 118130.	11.3	32
22	Scavenging ROS to Alleviate Acute Liver Injury by ZnO@NiO@COOH. Advanced Science, 2022, 9, e2103982.	11.2	18
23	Effect of Magnet-Fe ₃ O ₄ composite structure on methane production during anaerobic sludge digestion: Establishment of direct interspecies electron transfer. Renewable Energy, 2022, 188, 52-60.	8.9	18
24	Emerging Trends and Prospects for Municipal Wastewater Management in China. ACS ES&T Engineering, 2022, 2, 323-336.	7.6	63
25	Influential mechanism of water occurrence states of waste-activated sludge: Potential linkage between water-holding capacity and molecular compositions of EPS. Water Research, 2022, 213, 118169.	11.3	34
26	Targeted clean extraction of phosphorus from waste activated sludge: From a new perspective of phosphorus occurrence states to an innovative approach through acidic cation exchange resin. Water Research, 2022, 215, 118190.	11.3	20
27	Research on Ammonia Removal from Reject Water Produced from Anaerobic Digestion of Thermally Hydrolyzed Sludge Through Partial Nitrification-“Anammox. Water, Air, and Soil Pollution, 2022, 233, 1.	2.4	2
28	Performance and Mechanism of Fe ₃ O ₄ Improving Biotransformation of Waste Activated Sludge into Liquid High-Value Products. Environmental Science & Technology, 2022, 56, 3658-3668.	10.0	51
29	Polyethylene terephthalate microplastic fibers increase the release of extracellular antibiotic resistance genes during sewage sludge anaerobic digestion. Water Research, 2022, 217, 118426.	11.3	29
30	High concentration powder carrier bio-fluidized bed process: A new perspective for domestic wastewater treatment. Bioresource Technology, 2022, 351, 127015.	9.6	8
31	Medium-chain fatty acids production from carbohydrates-rich wastewater through two-stage yeast biofilm processes without external electron donor addition: Biofilm development and pH impact. Science of the Total Environment, 2022, 828, 154428.	8.0	10
32	Simultaneous enhancing phosphorus recovery and volatile fatty acids production during anaerobic fermentation of sewage sludge with peroxydisulfate pre-oxidation. Bioresource Technology, 2022, 357, 127164.	9.6	17
33	Coupling anammox and feammox via polymeric ferric sulfate: An efficient and aeration-saving way for nitrogen removal. Journal of Cleaner Production, 2022, 355, 131788.	9.3	17
34	Decrease the effective temperature of hydrothermal treatment for sewage sludge deep dewatering: Mechanistic of tannic acid aided. Water Research, 2022, 217, 118450.	11.3	37
35	Different sizes of polystyrene microplastics induced distinct microbial responses of anaerobic granular sludge. Water Research, 2022, 220, 118607.	11.3	27
36	Novel anaerobic digestion of waste activated sludge via isoelectric-point pretreatment: Ultra-short solids retention time and high methane yield. Water Research, 2022, 220, 118657.	11.3	11

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37	A novel green composite conductive material enhancing anaerobic digestion of waste activated sludge via improving electron transfer and metabolic activity. <i>Water Research</i> , 2022, 220, 118687.	11.3	51
38	Contributions of MOF-808 to methane production from anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2022, 220, 118653.	11.3	22
39	A novel application of dissolved ozone flotation on sewage sludge thickening: Performance and mechanism investigation. <i>Science of the Total Environment</i> , 2022, 842, 156874.	8.0	5
40	Influential mechanism of water occurrence states of waste-activated sludge: Over-focused significance of cell lysis to bound water reduction. <i>Water Research</i> , 2022, 221, 118737.	11.3	10
41	Direct lactic acid production from household food waste by lactic acid bacteria. <i>Science of the Total Environment</i> , 2022, 840, 156479.	8.0	12
42	Changes in physicochemical and leachate characteristics of microplastics during hydrothermal treatment of sewage sludge. <i>Water Research</i> , 2022, 222, 118876.	11.3	33
43	Deciphering the internal driving mechanism of microbial community for carbon conversion and nitrogen fixation during food waste composting with multifunctional microbial inoculation. <i>Bioresource Technology</i> , 2022, 360, 127623.	9.6	19
44	Mechanism insights into liquid polarity regulation for enhanced dewatering of waste-activated sludge: Specifically focusing on the solid-liquid affinity reduction depending on phase-transfer and conformational features of amphiphilic protein. <i>Water Research</i> , 2022, 221, 118793.	11.3	7
45	Novel perspective for urban water resource management: 5R generation. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	19
46	Pretreatment using UV combined with CaO ₂ for the anaerobic digestion of waste activated sludge: Mechanistic modeling for attenuation of trace organic contaminants. <i>Journal of Hazardous Materials</i> , 2021, 402, 123484.	12.4	20
47	Role of redox-active biochar with distinctive electrochemical properties to promote methane production in anaerobic digestion of waste activated sludge. <i>Journal of Cleaner Production</i> , 2021, 278, 123212.	9.3	83
48	New insights into the evaluation of anaerobic properties of sludge: Biodegradability and stabilization. <i>Journal of Environmental Sciences</i> , 2021, 100, 158-166.	6.1	6
49	A specious relevance between theory and practice: Insights into temperature parameter and multi-phase strategy of anaerobic digestion of straw. <i>Science of the Total Environment</i> , 2021, 753, 142212.	8.0	1
50	High-solid anaerobic digestion of sewage sludge: achievements and perspectives. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	43
51	The transition temperature (42°C) from mesophilic to thermophilic micro-organisms enhances biomethane potential of corn stover. <i>Science of the Total Environment</i> , 2021, 759, 143549.	8.0	4
52	Mechanism insights into polyhydroxyalkanoate-regulated denitrification from the perspective of pericytoplasmic nitrate reductase expression. <i>Science of the Total Environment</i> , 2021, 754, 142083.	8.0	9
53	Revealing the Mechanism of Biochar Enhancing the Production of Medium Chain Fatty Acids from Waste Activated Sludge Alkaline Fermentation Liquor. <i>ACS ES&T Water</i> , 2021, 1, 1014-1024.	4.6	28
54	Novel CaO ₂ beads used in the anaerobic fermentation of iron-rich sludge for simultaneous short-chain fatty acids and phosphorus recovery under ambient conditions. <i>Bioresource Technology</i> , 2021, 322, 124553.	9.6	27

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55	Conditioning of raw sludge and thermally hydrolyzed sludge by ferric salt and cationic polyacrylamide: rheological analysis. <i>Water Science and Technology</i> , 2021, 83, 1566-1577.	2.5	2
56	Comparison of anaerobic phosphorus release from activated sludge with three carbon sources. <i>Water Science and Technology</i> , 2021, 83, 1327-1334.	2.5	3
57	Revisiting Microplastics in Landfill Leachate: Unnoticed Tiny Microplastics and Their Fate in Treatment Works. <i>Water Research</i> , 2021, 190, 116784.	11.3	106
58	Design of facile technology for the efficient removal of hydroxypropyl guar gum from fracturing fluid. <i>PLoS ONE</i> , 2021, 16, e0247948.	2.5	7
59	Ferroferric oxide promotes metabolism in Anaerolineae other than microbial syntrophy in anaerobic methanogenesis of antibiotic fermentation residue. <i>Science of the Total Environment</i> , 2021, 758, 143601.	8.0	31
60	Environmentally-friendly dewatering of sewage sludge: A novel strategy based on amphiphilic phase-transfer induced by recoverable organic solvent. <i>Chemical Engineering Journal</i> , 2021, 409, 128212.	12.7	9
61	Rhamnolipid pretreatment enhances methane production from two-phase anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 194, 116909.	11.3	47
62	Defining interfacial abiotic driving forces for enhancing anaerobic biological treatment of organic solid waste. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105553.	10.8	9
63	Effect of gentamicin mycelial residues disintegration by microwave-alkaline pretreatment on methane production and gentamicin degradation during anaerobic digestion. <i>Chemical Engineering Journal</i> , 2021, 414, 128790.	12.7	22
64	Enhancing methanogenic fermentation of waste activated sludge via isoelectric-point pretreatment: Insights from interfacial thermodynamics, electron transfer and microbial community. <i>Water Research</i> , 2021, 197, 117072.	11.3	59
65	Investigating antibiotics, antibiotic resistance genes in soil, groundwater and vegetables in relation to agricultural field - Applied with lincomycin mycelial residues compost. <i>Science of the Total Environment</i> , 2021, 777, 146066.	8.0	13
66	A new approach to recycling cephalosporin fermentation residue into plant biostimulants. <i>Journal of Hazardous Materials</i> , 2021, 413, 125393.	12.4	9
67	Effects of sludge age on anaerobic acidification of waste activated sludge: Volatile fatty acids production and phosphorus release. <i>Journal of Environmental Sciences</i> , 2021, 105, 11-21.	6.1	8
68	Principles and advancements in improving anaerobic digestion of organic waste via direct interspecies electron transfer. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111367.	16.4	61
69	Influential mechanism of water occurrence states of waste-activated sludge: specifically focusing on the roles of EPS micro-spatial distribution and cation-dominated interfacial properties. <i>Water Research</i> , 2021, 202, 117461.	11.3	29
70	Optimizing granular anammox retention via hydrocycloning during two-stage deammonification of high-solid sludge anaerobic digester supernatant. <i>Science of the Total Environment</i> , 2021, 791, 148048.	8.0	6
71	Sustainable disposal of excess sludge: Post-thermal hydrolysis for anaerobically digested sludge. <i>Journal of Cleaner Production</i> , 2021, 321, 128893.	9.3	23
72	Coconut shell ash enhances short-chain fatty acids production from anaerobic algae fermentation. <i>Bioresource Technology</i> , 2021, 338, 125494.	9.6	23

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73	A novel thermal pretreatment method called air frying improves the enzymatic saccharification effect of straw. <i>Science of the Total Environment</i> , 2021, 790, 148191.	8.0	4
74	Enhanced depletion of antibiotics and accelerated stabilization of dissolved organic matter by hydrothermal pretreatment during composting of oxytetracycline fermentation residue. <i>Bioresource Technology</i> , 2021, 339, 125618.	9.6	8
75	The evaluation of CHG emissions from Shanghai municipal wastewater treatment plants based on IPCC and operational data integrated methods (ODIM). <i>Science of the Total Environment</i> , 2021, 797, 148967.	8.0	27
76	A review on application of single and composite conductive additives for anaerobic digestion: Advances, challenges and prospects. <i>Resources, Conservation and Recycling</i> , 2021, 174, 105844.	10.8	42
77	Aging microplastics in wastewater pipeline networks and treatment processes: Physicochemical characteristics and Cd adsorption. <i>Science of the Total Environment</i> , 2021, 797, 148940.	8.0	26
78	Enhanced sludge dewaterability via ozonation catalyzed by sludge derived biochar loaded with MnFe ₂ O ₄ : Performance and mechanism investigation. <i>Journal of Cleaner Production</i> , 2021, 323, 129182.	9.3	28
79	Removal of personal care products in greywater using membrane bioreactor and constructed wetland methods. <i>Science of the Total Environment</i> , 2021, 797, 148773.	8.0	13
80	Secondary acidogenic fermentation of waste activated sludge via voltage supplementation: Insights from sludge structure and enzymes activity. <i>Science of the Total Environment</i> , 2021, 797, 149161.	8.0	17
81	Enhancement of sludge dewaterability via the thermal hydrolysis anaerobic digestion mechanism based on moisture and organic matter interactions. <i>Science of the Total Environment</i> , 2021, 798, 149229.	8.0	11
82	Variations of heavy metals, nutrients, POPs and particle size distribution during "sludge anaerobic digestion-solar drying-land utilization process" Case study in China. <i>Science of the Total Environment</i> , 2021, 801, 149609.	8.0	24
83	Sludge treatment and resource recovery towards carbon neutrality in China: current status and future perspective. <i>Blue-Green Systems</i> , 2021, 3, 119-127.	2.0	16
84	Integrating multi-state and multi-phase treatment for anaerobic sludge digestion to enhance recovery of bio-energy. <i>Science of the Total Environment</i> , 2020, 698, 134196.	8.0	22
85	Simultaneous in situ nutrient recovery and sustainable wastewater purification based on metal anion- and cation-targeted selective adsorbents. <i>Journal of Hazardous Materials</i> , 2020, 382, 121039.	12.4	17
86	Rapid and strong biocidal effect of ferrate on sulfidogenic and methanogenic sewer biofilms. <i>Water Research</i> , 2020, 169, 115208.	11.3	38
87	Sludge-to-energy approaches based on pathways that couple pyrolysis with anaerobic digestion (thermal hydrolysis pre/post-treatment): Energy efficiency assessment and pyrolysis kinetics analysis. <i>Energy</i> , 2020, 190, 116240.	8.8	15
88	Unveiling the mechanisms of medium-chain fatty acid production from waste activated sludge alkaline fermentation liquor through physiological, thermodynamic and metagenomic investigations. <i>Water Research</i> , 2020, 169, 115218.	11.3	124
89	Coadsorption behavior and mechanism of ciprofloxacin and Cu(II) on graphene hydrogel wetted surface. <i>Chemical Engineering Journal</i> , 2020, 380, 122387.	12.7	81
90	Deciphering color for comprehensive utilization of sludge. <i>Resources, Conservation and Recycling</i> , 2020, 153, 104579.	10.8	1

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91	Free-standing Ti3C2Tx MXene film as binder-free electrode in capacitive deionization with an ultrahigh desalination capacity. <i>Chemical Engineering Journal</i> , 2020, 384, 123329.	12.7	160
92	Impact of roxithromycin on waste activated sludge anaerobic digestion: Methane production, carbon transformation and antibiotic resistance genes. <i>Science of the Total Environment</i> , 2020, 703, 134899.	8.0	65
93	Sludge age impacted the distribution, occurrence state and structure of organic compounds in activated sludge and affected the anaerobic degradability. <i>Chemical Engineering Journal</i> , 2020, 384, 123261.	12.7	26
94	Dosage effects of lincomycin mycelial residues on lincomycin resistance genes and soil microbial communities. <i>Environmental Pollution</i> , 2020, 256, 113392.	7.5	17
95	Metagenomic characterization of the enhanced performance of anaerobic fermentation of waste activated sludge with CaO ₂ addition at ambient temperature: Fatty acid biosynthesis metabolic pathway and CAZymes. <i>Water Research</i> , 2020, 170, 115309.	11.3	88
96	Nano-/Micro-confined Water in Graphene Hydrogel as Superadsorbents for Water Purification. <i>Nano-Micro Letters</i> , 2020, 12, 2.	27.0	39
97	Effects of chemical pretreatments on microplastic extraction in sewage sludge and their physicochemical characteristics. <i>Water Research</i> , 2020, 171, 115379.	11.3	91
98	New insight into the effect of thermal hydrolysis on high solid sludge anaerobic digestion: Conversion pathway of volatile sulphur compounds. <i>Chemosphere</i> , 2020, 244, 125466.	8.2	22
99	Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. <i>Chemosphere</i> , 2020, 243, 125421.	8.2	38
100	Perspective on enhancing the anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020, 389, 121847.	12.4	160
101	Alkaline-thermal pretreatment of spectinomycin mycelial residues: Insights on anaerobic biodegradability and the fate of antibiotic resistance genes. <i>Chemosphere</i> , 2020, 261, 127821.	8.2	21
102	New insight into volatile sulfur compounds conversion in anaerobic digestion of excess sludge: Influence of free ammonia nitrogen and thermal hydrolysis pretreatment. <i>Journal of Cleaner Production</i> , 2020, 277, 123366.	9.3	13
103	Composting of oxytetracycline fermentation residue in combination with hydrothermal pretreatment for reducing antibiotic resistance genes enrichment. <i>Bioresource Technology</i> , 2020, 318, 124271.	9.6	22
104	Improving the treatment of waste activated sludge using calcium peroxide. <i>Water Research</i> , 2020, 187, 116440.	11.3	90
105	An overview of removing heavy metals from sewage sludge: Achievements and perspectives. <i>Environmental Pollution</i> , 2020, 266, 115375.	7.5	107
106	Evaluation of Biogas Performance and Process Stability from Food, Kitchen, and Fruit/Vegetable Waste by Mono-, Co-, and Tridigestion. <i>Energy & Fuels</i> , 2020, 34, 12734-12742.	5.1	18
107	The potential exposure and transmission risk of SARS-CoV-2 through sludge treatment and disposal. <i>Resources, Conservation and Recycling</i> , 2020, 162, 105043.	10.8	30
108	Ferrate effectively removes antibiotic resistance genes from wastewater through combined effect of microbial DNA damage and coagulation. <i>Water Research</i> , 2020, 185, 116273.	11.3	44

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109	Organic compounds evolution and sludge properties variation along partial nitrification and subsequent anammox processes treating reject water. <i>Water Research</i> , 2020, 184, 116197.	11.3	88
110	Enhancing acidogenic fermentation of waste activated sludge via isoelectric-point pretreatment: Insights from physical structure and interfacial thermodynamics. <i>Water Research</i> , 2020, 185, 116237.	11.3	62
111	Anaerobic digestion of spectinomycin mycelial residues pretreated by thermal hydrolysis: removal of spectinomycin and enhancement of biogas production. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39297-39307.	5.3	12
112	Hydrothermal treatment of erythromycin fermentation residue: Harmless performance and bioresource properties. <i>Resources, Conservation and Recycling</i> , 2020, 161, 104952.	10.8	44
113	Microplastics Mitigation in Sewage Sludge through Pyrolysis: The Role of Pyrolysis Temperature. <i>Environmental Science and Technology Letters</i> , 2020, 7, 961-967.	8.7	67
114	Evaluation the impact of polystyrene micro and nanoplastics on the methane generation by anaerobic digestion. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111095.	6.0	53
115	Combining Battery-Type and Pseudocapacitive Charge Storage in Ag/Ti ₃ C ₂ Ti _x MXene Electrode for Capturing Chloride Ions with High Capacitance and Fast Ion Transport. <i>Advanced Science</i> , 2020, 7, 2000621.	11.2	101
116	Medium-Chain fatty acids and long-chain alcohols production from waste activated sludge via two-stage anaerobic fermentation. <i>Water Research</i> , 2020, 186, 116381.	11.3	82
117	Dosing effect of nano zero valent iron (NZVI) on the dark hydrogen fermentation performance via lake algae and food waste co-digestion. <i>Energy Reports</i> , 2020, 6, 3192-3199.	5.1	25
118	Transcriptomics Uncovers the Response of Anammox Bacteria to Dissolved Oxygen Inhibition and the Subsequent Recovery Mechanism. <i>Environmental Science & Technology</i> , 2020, 54, 14674-14685.	10.0	40
119	The release of organic matter, nitrogen, phosphorus and heavy metals from erythromycin fermentation residue under heat-activated persulfate oxidation conditioning. <i>Science of the Total Environment</i> , 2020, 724, 138349.	8.0	12
120	Impact of application of heat-activated persulfate oxidation treated erythromycin fermentation residue as a soil amendment: Soil chemical properties and antibiotic resistance. <i>Science of the Total Environment</i> , 2020, 736, 139668.	8.0	30
121	Critical review on dewatering of sewage sludge: Influential mechanism, conditioning technologies and implications to sludge re-utilizations. <i>Water Research</i> , 2020, 180, 115912.	11.3	343
122	Coupling self-sustaining air flotation screening with conventional CSTR enhances anaerobic biodegradability of corn stover. <i>Bioresource Technology</i> , 2020, 310, 123417.	9.6	6
123	Integrated anaerobic digestion and CO ₂ sequestration for energy recovery from waste activated sludge by calcium addition: Timing matters. <i>Energy</i> , 2020, 199, 117421.	8.8	12
124	Preparation of activated sewage sludge char for low temperature De-NO and its CO emission inhibition. <i>Chemosphere</i> , 2020, 251, 126330.	8.2	8
125	Full-scale semi-centralized wastewater treatment facilities for resource recovery: operation, problems and resolutions. <i>Water Science and Technology</i> , 2020, 82, 303-314.	2.5	5
126	Biomethane production by typical straw anaerobic digestion: Deep insights of material compositions and surface properties. <i>Bioresource Technology</i> , 2020, 313, 123643.	9.6	28

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127	Humification in extracellular polymeric substances (EPS) dominates methane release and EPS reconstruction during the sludge stabilization of high-solid anaerobic digestion. <i>Water Research</i> , 2020, 175, 115686.	11.3	99
128	Partial nitrification with aerobic duration control of carbon-captured blackwater: Process operation and model-based evaluation. <i>Chemical Engineering Journal</i> , 2020, 401, 126060.	12.7	14
129	Interfacial interaction between micro/nanoplastics and typical PPCPs and nanoplastics removal via electrosorption from an aqueous solution. <i>Water Research</i> , 2020, 184, 116100.	11.3	137
130	Operation of pilot-scale nitrification-anammox reactors for the treatment of reject-water produced from the anaerobic digestion of thermal hydrolysis-treated sludge. <i>Bioresource Technology</i> , 2020, 314, 123717.	9.6	16
131	Effect of nitrite addition on the two-phase anaerobic digestion of waste activated sludge: Optimization of the acidogenic phase and influence mechanisms. <i>Environmental Pollution</i> , 2020, 261, 114085.	7.5	17
132	Alkaline-thermally treated penicillin V mycelial residue amendment improved the soil properties without triggering antibiotic resistance. <i>Waste Management</i> , 2020, 105, 248-255.	7.4	17
133	Micron-sized silica particles in wastewater influenced the distribution of organic matters in sludge and their anaerobic degradation. <i>Journal of Hazardous Materials</i> , 2020, 393, 122340.	12.4	8
134	New insights into the effect of sludge proteins on the hydrophilic/hydrophobic properties that improve sludge dewaterability during anaerobic digestion. <i>Water Research</i> , 2020, 173, 115503.	11.3	68
135	Zinc Spinel Ferrite Nanoparticles as a Pseudocapacitive Electrode with Ultrahigh Desalination Capacity and Long-Term Stability. <i>Environmental Science and Technology Letters</i> , 2020, 7, 118-125.	8.7	40
136	The transformation of phosphorus fractions in high-solid sludge by anaerobic digestion combined with the high temperature thermal hydrolysis process. <i>Bioresource Technology</i> , 2020, 309, 123314.	9.6	15
137	The inhibitory impacts of nano-graphene oxide on methane production from waste activated sludge in anaerobic digestion. <i>Science of the Total Environment</i> , 2019, 646, 1376-1384.	8.0	72
138	Multiple selection of resistance genes in arable soil amended with cephalosporin fermentation residue. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107538.	8.8	26
139	Î²-Carrageenan/Sodium alginate double-network hydrogel with enhanced mechanical properties, anti-swelling, and adsorption capacity. <i>Chemosphere</i> , 2019, 237, 124417.	8.2	80
140	Revealing the Mechanisms of Polyethylene Microplastics Affecting Anaerobic Digestion of Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2019, 53, 9604-9613.	10.0	199
141	Effect of temperature on tertiary nitrogen removal from municipal wastewater in a PHBV/PLA-supported denitrification system. <i>Environmental Science and Pollution Research</i> , 2019, 26, 26893-26899.	5.3	19
142	Modelling of simultaneous nitrogen and thiocyanate removal through coupling thiocyanate-based denitrification with anaerobic ammonium oxidation. <i>Environmental Pollution</i> , 2019, 253, 974-980.	7.5	8
143	Effects of stepwise thermal hydrolysis and solid-liquid separation on three different sludge organic matter solubilization and biodegradability. <i>Bioresource Technology</i> , 2019, 290, 121753.	9.6	27
144	Particle size reduction of rice straw enhances methane production under anaerobic digestion. <i>Bioresource Technology</i> , 2019, 293, 122043.	9.6	48

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145	Pretreatment-promoted sludge fermentation liquor improves biological nitrogen removal: Molecular insight into the role of dissolved organic matter. <i>Bioresource Technology</i> , 2019, 293, 122082.	9.6	26
146	Variations of physical and chemical properties in relation to erythromycin mycelial dreg dewaterability under heat-activated persulfate oxidation conditioning. <i>Science of the Total Environment</i> , 2019, 687, 2-9.	8.0	7
147	Persulfate and zero valent iron combined conditioning as a sustainable technique for enhancing dewaterability of aerobically digested sludge. <i>Chemosphere</i> , 2019, 232, 45-53.	8.2	39
148	Effects of thermal hydrolysis on the metabolism of amino acids in sewage sludge in anaerobic digestion. <i>Waste Management</i> , 2019, 88, 309-318.	7.4	86
149	Post-thermal hydrolysis and centrate recirculation for enhancing anaerobic digestion of sewage sludge. <i>Waste Management</i> , 2019, 92, 39-48.	7.4	41
150	Characterizing the sludge moisture distribution during anaerobic digestion process through various approaches. <i>Science of the Total Environment</i> , 2019, 675, 184-191.	8.0	35
151	Mechanism analysis to improve sludge dewaterability during anaerobic digestion based on moisture distribution. <i>Chemosphere</i> , 2019, 227, 247-255.	8.2	24
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