

Xiaohu Dai

List of Publications by Year in descending order

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259
papers

12,742
citations

30070

54
h-index

33894

99
g-index

259
all docs

259
docs citations

259
times ranked

8045
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastics in wastewater treatment plants: Detection, occurrence and removal. <i>Water Research</i> , 2019, 152, 21-37.	11.3	1,069
2	Microplastics in sewage sludge from the wastewater treatment plants in China. <i>Water Research</i> , 2018, 142, 75-85.	11.3	675
3	High-solid anaerobic digestion of sewage sludge under mesophilic conditions: Feasibility study. <i>Bioresource Technology</i> , 2012, 104, 150-156.	9.6	354
4	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
5	High-solids anaerobic co-digestion of sewage sludge and food waste in comparison with mono digestions: Stability and performance. <i>Waste Management</i> , 2013, 33, 308-316.	7.4	322
6	Effect of Increasing Total Solids Contents on Anaerobic Digestion of Food Waste under Mesophilic Conditions: Performance and Microbial Characteristics Analysis. <i>PLoS ONE</i> , 2014, 9, e102548.	2.5	283
7	Effects of thermal hydrolysis on organic matter solubilization and anaerobic digestion of high solid sludge. <i>Chemical Engineering Journal</i> , 2015, 264, 174-180.	12.7	274
8	Enhancement in adsorption potential of microplastics in sewage sludge for metal pollutants after the wastewater treatment process. <i>Water Research</i> , 2019, 157, 228-237.	11.3	239
9	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
10	Magnetite Triggering Enhanced Direct Interspecies Electron Transfer: A Scavenger for the Blockage of Electron Transfer in Anaerobic Digestion of High-Solids Sewage Sludge. <i>Environmental Science & Technology</i> , 2018, 52, 7160-7169.	10.0	198
11	Effect of different carbon sources on denitrification performance, microbial community structure and denitrification genes. <i>Science of the Total Environment</i> , 2018, 634, 195-204.	8.0	197
12	Changes of heavy metal speciation during high-solid anaerobic digestion of sewage sludge. <i>Bioresource Technology</i> , 2013, 131, 152-158.	9.6	183
13	Occurrence State and Molecular Structure Analysis of Extracellular Proteins with Implications on the Dewaterability of Waste-Activated Sludge. <i>Environmental Science & Technology</i> , 2017, 51, 9235-9243.	10.0	174
14	New insight into chemical changes of dissolved organic matter during anaerobic digestion of dewatered sewage sludge using EEM-PARAFAC and two-dimensional FTIR correlation spectroscopy. <i>Bioresource Technology</i> , 2014, 159, 412-420.	9.6	168
15	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
16	Perspective on enhancing the anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020, 389, 121847.	12.4	160
17	Simultaneous enhancement of methane production and methane content in biogas from waste activated sludge and perennial ryegrass anaerobic co-digestion: The effects of pH and C/N ratio. <i>Bioresource Technology</i> , 2016, 216, 323-330.	9.6	145
18	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

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19	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
20	Flow of sewage sludge-borne phthalate esters (PAEs) from human release to human intake: Implication for risk assessment of sludge applied to soil. <i>Science of the Total Environment</i> , 2014, 476-477, 242-249.	8.0	117
21	New insights into the enhanced performance of high solid anaerobic digestion with dewatered sludge by thermal hydrolysis: Organic matter degradation and methanogenic pathways. <i>Journal of Hazardous Materials</i> , 2018, 342, 1-9.	12.4	115
22	Effects of Metal Nanoparticles on Methane Production from Waste-Activated Sludge and Microorganism Community Shift in Anaerobic Granular Sludge. <i>Scientific Reports</i> , 2016, 6, 25857.	3.3	109
23	An overview of removing heavy metals from sewage sludge: Achievements and perspectives. <i>Environmental Pollution</i> , 2020, 266, 115375.	7.5	107
24	Revisiting Microplastics in Landfill Leachate: Unnoticed Tiny Microplastics and Their Fate in Treatment Works. <i>Water Research</i> , 2021, 190, 116784.	11.3	106
25	Enhanced dewaterability of sludge during anaerobic digestion with thermal hydrolysis pretreatment: New insights through structure evolution. <i>Water Research</i> , 2018, 131, 177-185.	11.3	101
26	Combining Battery-type and Pseudocapacitive Charge Storage in Ag/Ti ₃ C ₂ T _x MXene Electrode for Capturing Chloride Ions with High Capacitance and Fast Ion Transport. <i>Advanced Science</i> , 2020, 7, 2000621.	11.2	101
27	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
28	Biostimulation by direct voltage to enhance anaerobic digestion of waste activated sludge. <i>RSC Advances</i> , 2016, 6, 1581-1588.	3.6	98
29	Impact of a high ammonia-ammonium-pH system on methane-producing archaea and sulfate-reducing bacteria in mesophilic anaerobic digestion. <i>Bioresource Technology</i> , 2017, 245, 598-605.	9.6	92
30	Effects of chemical pretreatments on microplastic extraction in sewage sludge and their physicochemical characteristics. <i>Water Research</i> , 2020, 171, 115379.	11.3	91
31	Improving the treatment of waste activated sludge using calcium peroxide. <i>Water Research</i> , 2020, 187, 116440.	11.3	90
32	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
33	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
34	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
35	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
36	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

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37	The influence of organic-binding metals on the biogas conversion of sewage sludge. <i>Water Research</i> , 2017, 126, 329-341.	11.3	81
38	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
39	Î-Carrageenan/Sodium alginate double-network hydrogel with enhanced mechanical properties, anti-swelling, and adsorption capacity. <i>Chemosphere</i> , 2019, 237, 124417.	8.2	80
40	Mesoporous amorphous FePO ₄ nanosphere@Graphene as a faradic electrode in capacitive deionization for high-capacity and fast removal of NaCl from water. <i>Chemical Engineering Journal</i> , 2019, 370, 938-943.	12.7	80
41	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
42	Rheology evolution of sludge through high-solid anaerobic digestion. <i>Bioresource Technology</i> , 2014, 174, 6-10.	9.6	71
43	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
44	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
45	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
46	Biodegradation of polyacrylamide by anaerobic digestion under mesophilic condition and its performance in actual dewatered sludge system. <i>Bioresource Technology</i> , 2014, 153, 55-61.	9.6	63
47	Emerging Trends and Prospects for Municipal Wastewater Management in China. <i>ACS ES&T Engineering</i> , 2022, 2, 323-336.	7.6	63
48	Effect of the micron-sized silica particles (MSSP) on biogas conversion of sewage sludge. <i>Water Research</i> , 2017, 115, 220-228.	11.3	62
49	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
50	Microbial responses and metabolic pathways reveal the recovery mechanism of an anaerobic digestion system subjected to progressive inhibition by ammonia. <i>Chemical Engineering Journal</i> , 2018, 350, 312-323.	12.7	61
51	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
52	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
53	Metabolic adaptation of microbial communities to ammonium stress in a high solid anaerobic digester with dewatered sludge. <i>Scientific Reports</i> , 2016, 6, 28193.	3.3	58
54	Evaluation of thermal hydrolysis efficiency of mechanically dewatered sewage sludge via rheological measurement. <i>Water Research</i> , 2017, 116, 34-43.	11.3	57

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55	PHBV polymer supported denitrification system efficiently treated high nitrate concentration wastewater: Denitrification performance, microbial community structure evolution and key denitrifying bacteria. <i>Chemosphere</i> , 2018, 197, 96-104.	8.2	56
56	Effect of aromatic repolymerization of humic acid-like fraction on digestate phytotoxicity reduction during high-solid anaerobic digestion for stabilization treatment of sewage sludge. <i>Water Research</i> , 2018, 143, 436-444.	11.3	56
57	A new method for the simultaneous enhancement of methane yield and reduction of hydrogen sulfide production in the anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2017, 243, 914-921.	9.6	55
58	Rotating Magnetic Field-Assisted Adsorption Mechanism of Pollutants on Mechanically Strong Sodium Alginate/Graphene/Cysteine Beads in Batch and Fixed-Bed Column Systems. <i>Environmental Science & Technology</i> , 2018, 52, 13925-13934.	10.0	55
59	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
60	Pathways in bacterial and archaeal communities dictated by ammonium stress in a high solid anaerobic digester with dewatered sludge. <i>Bioresource Technology</i> , 2017, 241, 95-102.	9.6	52
61	Development of nano-CaO ₂ -coated clinoptilolite for enhanced phosphorus adsorption and simultaneous removal of COD and nitrogen from sewage. <i>Chemical Engineering Journal</i> , 2017, 328, 35-43.	12.7	51
62	Performance and Mechanism of Fe ₃ O ₄ Improving Biotransformation of Waste Activated Sludge into Liquid High-Value Products. <i>Environmental Science & Technology</i> , 2022, 56, 3658-3668.	10.0	51
63	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
64	Ultrasonic-pretreated waste activated sludge hydrolysis and volatile fatty acid accumulation under alkaline conditions: Effect of temperature. <i>Journal of Biotechnology</i> , 2012, 159, 27-31.	3.8	49
65	Partition and fate analysis of fluoroquinolones in sewage sludge during anaerobic digestion with thermal hydrolysis pretreatment. <i>Science of the Total Environment</i> , 2017, 581-582, 715-721.	8.0	49
66	Reforming sewage sludge pyrolysis volatile with Fe-embedded char: Minimization of liquid product yield. <i>Waste Management</i> , 2018, 73, 464-475.	7.4	48
67	Particle size reduction of rice straw enhances methane production under anaerobic digestion. <i>Bioresource Technology</i> , 2019, 293, 122043.	9.6	48
68	Rhamnolipid pretreatment enhances methane production from two-phase anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 194, 116909.	11.3	47
69	Waste-Activated Sludge Fermentation for Polyacrylamide Biodegradation Improved by Anaerobic Hydrolysis and Key Microorganisms Involved in Biological Polyacrylamide Removal. <i>Scientific Reports</i> , 2015, 5, 11675.	3.3	46
70	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
71	Hydrothermal treatment of erythromycin fermentation residue: Harmless performance and bioresource properties. <i>Resources, Conservation and Recycling</i> , 2020, 161, 104952.	10.8	44
72	Unraveling the water states of waste-activated sludge through transverse spin-spin relaxation time of low-field NMR. <i>Water Research</i> , 2019, 155, 266-274.	11.3	43

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73	Nitrogen transformation during pyrolysis of oilfield sludge with high polymer content. <i>Chemosphere</i> , 2019, 219, 383-389.	8.2	43
74	High-solid anaerobic digestion of sewage sludge: achievements and perspectives. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	43
75	Evaluation on the Nanoscale Zero Valent Iron Based Microbial Denitrification for Nitrate Removal from Groundwater. <i>Scientific Reports</i> , 2015, 5, 12331.	3.3	42
76	Mechanism insights into bio-floc bound water transformation based on synchrotron X-ray computed microtomography and viscoelastic acoustic response analysis. <i>Water Research</i> , 2018, 142, 480-489.	11.3	42
77	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
78	Effect of anaerobic digestion on sequential pyrolysis kinetics of organic solid wastes using thermogravimetric analysis and distributed activation energy model. <i>Bioresource Technology</i> , 2017, 227, 297-307.	9.6	41
79	Post-thermal hydrolysis and centrate recirculation for enhancing anaerobic digestion of sewage sludge. <i>Waste Management</i> , 2019, 92, 39-48.	7.4	41
80	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
81	Two-phase high solid anaerobic digestion with dewatered sludge: Improved volatile solid degradation and specific methane generation by temperature and pH regulation. <i>Bioresource Technology</i> , 2018, 259, 253-258.	9.6	40
82	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
83	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
84	Polybrominated diphenyl ethers (PBDEs) and dechlorane plus (DP) in a conventional wastewater treatment plant (WWTP) in Shanghai: Seasonal variations and potential sources. <i>Science of the Total Environment</i> , 2014, 487, 342-349.	8.0	39
85	Methanogenic population dynamics regulated by bacterial community responses to protein-rich organic wastes in a high solid anaerobic digester. <i>Chemical Engineering Journal</i> , 2017, 317, 444-453.	12.7	39
86	Development of montmorillonite-supported nano CaO ₂ for enhanced dewatering of waste-activated sludge by synergistic effects of filtration aid and peroxidation. <i>Chemical Engineering Journal</i> , 2017, 307, 418-426.	12.7	39
87	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
88	Nano-/Micro-confined Water in Graphene Hydrogel as Superadsorbents for Water Purification. <i>Nano-Micro Letters</i> , 2020, 12, 2.	27.0	39
89	Analysis on carbon dioxide emission reduction during the anaerobic synergetic digestion technology of sludge and kitchen waste: Taking kitchen waste synergetic digestion project in Zhenjiang as an example. <i>Waste Management</i> , 2017, 69, 360-364.	7.4	39
90	A review: factors affecting excess sludge anaerobic digestion for volatile fatty acids production. <i>Water Science and Technology</i> , 2015, 72, 678-688.	2.5	38

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91	Carbonization of heavy metal impregnated sewage sludge oriented towards potential co-disposal. <i>Journal of Hazardous Materials</i> , 2017, 321, 132-145.	12.4	38
92	Rapid and strong biocidal effect of ferrate on sulfidogenic and methanogenic sewer biofilms. <i>Water Research</i> , 2020, 169, 115208.	11.3	38
93	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
94	Microbial production of lactic acid from food waste: Latest advances, limits, and perspectives. <i>Bioresource Technology</i> , 2022, 345, 126052.	9.6	38
95	Decrease the effective temperature of hydrothermal treatment for sewage sludge deep dewatering: Mechanistic of tannic acid aided. <i>Water Research</i> , 2022, 217, 118450.	11.3	37
96	High-solid Anaerobic Co-digestion of Sewage Sludge and Cattle Manure: The Effects of Volatile Solid Ratio and pH. <i>Scientific Reports</i> , 2016, 6, 35194.	3.3	36
97	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
98	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
99	Effects of temperature variation on wastewater sludge electro-dewatering. <i>Journal of Cleaner Production</i> , 2019, 214, 873-880.	9.3	34
100	Influential mechanism of water occurrence states of waste-activated sludge: Potential linkage between water-holding capacity and molecular compositions of EPS. <i>Water Research</i> , 2022, 213, 118169.	11.3	34
101	Changes in physicochemical and leachate characteristics of microplastics during hydrothermal treatment of sewage sludge. <i>Water Research</i> , 2022, 222, 118876.	11.3	33
102	Exploring the potential of iTRAQ proteomics for tracking the transformation of extracellular proteins from enzyme-disintegrated waste activated sludge. <i>Bioresource Technology</i> , 2017, 225, 75-83.	9.6	32
103	Enhancing Anaerobic Digestion of Waste Activated Sludge by Solidâ€“Liquid Separation via Isoelectric Point Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14774-14784.	6.7	32
104	Spatial Configuration of Extracellular Organic Substances Responsible for the Biogas Conversion of Sewage Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8308-8316.	6.7	32
105	Cation exchange resin pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2022, 212, 118130.	11.3	32
106	Methane-rich biogas production from waste-activated sludge with the addition of ferric chloride under a thermophilic anaerobic digestion system. <i>RSC Advances</i> , 2015, 5, 38538-38546.	3.6	31
107	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
108	Degradation of Extracellular Polymeric Substances (EPS) in Anaerobic Digestion of Dewatered Sludge. <i>Procedia Environmental Sciences</i> , 2013, 18, 515-521.	1.4	30

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109	Thermal analysis and 454 pyrosequencing to evaluate the performance and mechanisms for deep stabilization and reduction of high-solid anaerobically digested sludge using biodrying process. <i>Bioresource Technology</i> , 2015, 175, 245-253.	9.6	30
110	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
111	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
112	Two-dimensional FTIR correlation spectroscopy reveals chemical changes in dissolved organic matter during the biodrying process of raw sludge and anaerobically digested sludge. <i>RSC Advances</i> , 2015, 5, 82087-82096.	3.6	29
113	Pyrolysis of the mixture of MSWI fly ash and sewage sludge for co-disposal: Effect of ferrous/ferric sulfate additives. <i>Waste Management</i> , 2018, 75, 340-351.	7.4	29
114	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
115	Thermogravimetry-FTIR-Fourier transform infrared spectrometry-mass spectrometry technique to evaluate the effect of anaerobic digestion on gaseous products of sewage sludge sequential pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 126, 288-297.	5.5	29
116	Alkaline thermal hydrolysis of sewage sludge to produce high-quality liquid fertilizer rich in nitrogen-containing plant-growth-promoting nutrients and biostimulants. <i>Water Research</i> , 2022, 211, 118036.	11.3	29
117	Polyethylene terephthalate microplastic fibers increase the release of extracellular antibiotic resistance genes during sewage sludge anaerobic digestion. <i>Water Research</i> , 2022, 217, 118426.	11.3	29
118	<i>In Situ</i> Reforming of the Volatile by Char during Sewage Sludge Pyrolysis. <i>Energy & Fuels</i> , 2016, 30, 10396-10403.	5.1	28
119	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
120	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
121	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
122	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
123	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
124	The evaluation of GHG 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
125	Different sizes of polystyrene microplastics induced distinct microbial responses of anaerobic granular sludge. <i>Water Research</i> , 2022, 220, 118607.	11.3	27
126	Earthworm eco-physiological characteristics and quantification of earthworm feeding in vermifiltration system for sewage sludge stabilization using stable isotopic natural abundance. <i>Journal of Hazardous Materials</i> , 2014, 276, 353-361.	12.4	26

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127	Development of sludge-derived mesoporous material with loaded nano CaO ₂ and doped Fe for re-utilization of dewatered waste-activated sludge as dewatering aids. <i>Chemical Engineering Journal</i> , 2018, 335, 161-168.	12.7	26
128	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
129	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
130	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
131	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
132	Treatment of printing and dyeing wastewater using MBBR followed by membrane separation process. <i>Desalination and Water Treatment</i> , 2014, 52, 4562-4567.	1.0	25
133	Occurrence of hexabromocyclododecane (HBCD) in sewage sludge from Shanghai: Implications for source and environmental burden. <i>Chemosphere</i> , 2015, 118, 207-212.	8.2	25
134	Comparing two start up strategies and the effect of temperature fluctuations on the performance of mainstream anammox reactors. <i>Chemosphere</i> , 2018, 209, 632-639.	8.2	25
135	Free-conditioning dewatering of sewage sludge through in situ propane hydrate formation. <i>Water Research</i> , 2018, 145, 464-472.	11.3	25
136	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
137	Assessment of Heterotrophic Growth Supported by Soluble Microbial Products in Anammox Biofilm using Multidimensional Modeling. <i>Scientific Reports</i> , 2016, 6, 27576.	3.3	24
138	Mechanism analysis to improve sludge dewaterability during anaerobic digestion based on moisture distribution. <i>Chemosphere</i> , 2019, 227, 247-255.	8.2	24
139	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
140	Recognition of the key chemical constituents of sewage sludge for biogas production. <i>RSC Advances</i> , 2017, 7, 2033-2037.	3.6	23
141	Sustainable disposal of excess sludge: Post-thermal hydrolysis for anaerobically digested sludge. <i>Journal of Cleaner Production</i> , 2021, 321, 128893.	9.3	23
142	Coconut shell ash enhances short-chain fatty acids production from anaerobic algae fermentation. <i>Bioresource Technology</i> , 2021, 338, 125494.	9.6	23
143	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
144	The synthetic effect on volatile fatty acid disinhibition and methane production enhancement by dosing FeCl ₃ in a sludge thermophilic anaerobic digestion system. <i>RSC Advances</i> , 2016, 6, 21090-21098.	3.6	22

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145	Effects of free nitrous acid and nitrite on two-phase anaerobic digestion of waste activated sludge: A preliminary study. <i>Science of the Total Environment</i> , 2019, 654, 1064-1071.	8.0	22
146	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
147	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
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