

List of Publications by Citations

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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.

250 papers	6,786 citations	39 h-index	73 g-index
259 ext. papers	9,576 ext. citations	9.6 avg, IF	6.94 L-index

#	Paper	IF	Citations
250	Microplastics in wastewater treatment plants: Detection, occurrence and removal. <i>Water Research</i> , 2019 , 152, 21-37	12.5	531
249	Microplastics in sewage sludge from the wastewater treatment plants in China. <i>Water Research</i> , 2018 , 142, 75-85	12.5	383
248	High-solid anaerobic digestion of sewage sludge under mesophilic conditions: feasibility study. <i>Bioresource Technology</i> , 2012 , 104, 150-6	11	294
247	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, 308-16	8.6	259
246	Effects of thermal hydrolysis on organic matter solubilization and anaerobic digestion of high solid sludge. <i>Chemical Engineering Journal</i> , 2015 , 264, 174-180	14.7	198
245	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	3.7	198
244	Critical review on dewatering of sewage sludge: Influential mechanism, conditioning technologies and implications to sludge re-utilizations. <i>Water Research</i> , 2020 , 180, 115912	12.5	144
243	Changes of heavy metal speciation during high-solid anaerobic digestion of sewage sludge. <i>Bioresource Technology</i> , 2013 , 131, 152-8	11	144
242	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, 412-20	11	127
241	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	10.3	121
240	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	12.5	120
239	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, 323-30	11	118
238	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	10.2	113
237	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	10.3	107
236	Revealing the Mechanisms of Polyethylene Microplastics Affecting Anaerobic Digestion of Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2019 , 53, 9604-9613	10.3	93
235	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, 242-9	10.2	92
234	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	4.9	83

233	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	14.7	79
232	Perspective on enhancing the anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121847	12.8	72
231	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	12.8	72
230	Biostimulation by direct voltage to enhance anaerobic digestion of waste activated sludge. <i>RSC Advances</i> , 2016 , 6, 1581-1588	3.7	68
229	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	11	66
228	Enhanced dewaterability of sludge during anaerobic digestion with thermal hydrolysis pretreatment: New insights through structure evolution. <i>Water Research</i> , 2018 , 131, 177-185	12.5	65
227	Mesoporous amorphous FePO4 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	14.7	55
226	Rheology evolution of sludge through high-solid anaerobic digestion. <i>Bioresource Technology</i> , 2014 , 174, 6-10	11	55
225	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	11	54
224	The influence of organic-binding metals on the biogas conversion of sewage sludge. <i>Water Research</i> , 2017 , 126, 329-341	12.5	48
223	Improving the treatment of waste activated sludge using calcium peroxide. <i>Water Research</i> , 2020 , 187, 116440	12.5	48
222	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	12.5	46
221	Effects of thermal hydrolysis on the metabolism of amino acids in sewage sludge in anaerobic digestion. <i>Waste Management</i> , 2019 , 88, 309-318	8.6	45
220	Effects of chemical pretreatments on microplastic extraction in sewage sludge and their physicochemical characteristics. <i>Water Research</i> , 2020 , 171, 115379	12.5	45
219	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	11	41
218	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	10.2	41
217	Rotating Magnetic Field-Assisted Adsorption Mechanism of Pollutants on Mechanically Strong Sodium Alginate/Graphene/l-Cysteine Beads in Batch and Fixed-Bed Column Systems. <i>Environmental Science & Technology</i> , 2018 , 52, 13925-13934	10.3	41
216	Effect of the micron-sized silica particles (MSSP) on biogas conversion of sewage sludge. <i>Water Research</i> , 2017 , 115, 220-228	12.5	40

215	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	10.2	40
214	Coadsorption behavior and mechanism of ciprofloxacin and Cu(II) on graphene hydrogel wetted surface. <i>Chemical Engineering Journal</i> , 2020 , 380, 122387	14.7	40
213	Evaluation of thermal hydrolysis efficiency of mechanically dewatered sewage sludge via rheological measurement. <i>Water Research</i> , 2017 , 116, 34-43	12.5	39
212	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	4.9	39
211	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	3.7	39
210	Interfacial interaction between micro/nanoplastics and typical PPCPs and nanoplastics removal via electrosorption from an aqueous solution. <i>Water Research</i> , 2020 , 184, 116100	12.5	38
209	Metabolic adaptation of microbial communities to ammonium stress in a high solid anaerobic digester with dewatered sludge. <i>Scientific Reports</i> , 2016 , 6, 28193	4.9	38
208	Metagenomic characterization of the enhanced performance of anaerobic fermentation of waste activated sludge with CaO addition at ambient temperature: Fatty acid biosynthesis metabolic pathway and CAZymes. <i>Water Research</i> , 2020 , 170, 115309	12.5	38
207	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	8.4	37
206	Alginate-Chitosan/Sodium alginate double-network hydrogel with enhanced mechanical properties, anti-swelling, and adsorption capacity. <i>Chemosphere</i> , 2019 , 237, 124417	8.4	37
205	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	14.7	37
204	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	11	36
203	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	14.7	35
202	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, 342-9	10.2	35
201	An overview of removing heavy metals from sewage sludge: Achievements and perspectives. <i>Environmental Pollution</i> , 2020 , 266, 115375	9.3	35
200	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	10.2	34
199	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	12.5	34
198	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	10.3	33

197	Organic compounds evolution and sludge properties variation along partial nitrification and subsequent anammox processes treating reject water. <i>Water Research</i> , 2020 , 184, 116197	12.5	32
196	Combining Battery-Type and Pseudocapacitive Charge Storage in Ag/TiCT MXene Electrode for Capturing Chloride Ions with High Capacitance and Fast Ion Transport. <i>Advanced Science</i> , 2020 , 7, 2000624	13.6	32
195	A review: factors affecting excess sludge anaerobic digestion for volatile fatty acids production. <i>Water Science and Technology</i> , 2015 , 72, 678-88	2.2	31
194	Evaluation on the Nanoscale Zero Valent Iron Based Microbial Denitrification for Nitrate Removal from Groundwater. <i>Scientific Reports</i> , 2015 , 5, 12331	4.9	31
193	Reforming sewage sludge pyrolysis volatile with Fe-embedded char: Minimization of liquid product yield. <i>Waste Management</i> , 2018 , 73, 464-475	8.6	31
192	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	14.7	30
191	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	8.4	29
190	Post-thermal hydrolysis and centrate recirculation for enhancing anaerobic digestion of sewage sludge. <i>Waste Management</i> , 2019 , 92, 39-48	8.6	29
189	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	12.5	29
188	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	11	28
187	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	12.5	28
186	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	11	28
185	Carbonization of heavy metal impregnated sewage sludge oriented towards potential co-disposal. <i>Journal of Hazardous Materials</i> , 2017 , 321, 132-145	12.8	28
184	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, 245-53	11	27
183	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	12.5	27
182	Effects of temperature variation on wastewater sludge electro-dewatering. <i>Journal of Cleaner Production</i> , 2019 , 214, 873-880	10.3	27
181	Revisiting Microplastics in Landfill Leachate: Unnoticed Tiny Microplastics and Their Fate in Treatment Works. <i>Water Research</i> , 2021 , 190, 116784	12.5	27
180	Particle size reduction of rice straw enhances methane production under anaerobic digestion. <i>Bioresource Technology</i> , 2019 , 293, 122043	11	25

179	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	11	24
178	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	14.7	24
177	Nitrogen transformation during pyrolysis of oilfield sludge with high polymer content. <i>Chemosphere</i> , 2019 , 219, 383-389	8.4	24
176	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	4.9	23
175	In Situ Reforming of the Volatile by Char during Sewage Sludge Pyrolysis. <i>Energy & Fuels</i> , 2016 , 30, 10396-10403	4.1	23
174	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	12.5	23
173	Degradation of Extracellular Polymeric Substances (EPS) in Anaerobic Digestion of Dewatered Sludge. <i>Procedia Environmental Sciences</i> , 2013 , 18, 515-521		23
172	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	3.7	23
171	Microplastics Mitigation in Sewage Sludge through Pyrolysis: The Role of Pyrolysis Temperature. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 961-967	11	23
170	Rhamnolipid pretreatment enhances methane production from two-phase anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021 , 194, 116909	12.5	23
169	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	12.5	22
168	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, 353-61	12.8	22
167	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	8.6	22
166	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	8.3	22
165	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	3.7	21
164	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	11	21
163	Occurrence of hexabromocyclododecane (HBCD) in sewage sludge from Shanghai: implications for source and environmental burden. <i>Chemosphere</i> , 2015 , 118, 207-12	8.4	21
162	Ferrate effectively removes antibiotic resistance genes from wastewater through combined effect of microbial DNA damage and coagulation. <i>Water Research</i> , 2020 , 185, 116273	12.5	21

161	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	8.4	20
160	Nano-/Micro-confined Water in Graphene Hydrogel as Superadsorbents for Water Purification. <i>Nano-Micro Letters</i> , 2019 , 12, 2	19.5	20
159	Rapid and strong biocidal effect of ferrate on sulfidogenic and methanogenic sewer biofilms. <i>Water Research</i> , 2020 , 169, 115208	12.5	20
158	Treatment of printing and dyeing wastewater using MBBR followed by membrane separation process. <i>Desalination and Water Treatment</i> , 2014 , 52, 4562-4567		19
157	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	12.5	19
156	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	12.5	19
155	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	8.6	19
154	Recognition of the key chemical constituents of sewage sludge for biogas production. <i>RSC Advances</i> , 2017 , 7, 2033-2037	3.7	18
153	Biomethane production by typical straw anaerobic digestion: Deep insights of material compositions and surface properties. <i>Bioresource Technology</i> , 2020 , 313, 123643	11	18
152	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	3.7	18
151	The potential exposure and transmission risk of SARS-CoV-2 through sludge treatment and disposal. <i>Resources, Conservation and Recycling</i> , 2020 , 162, 105043	11.9	18
150	Evaluation the impact of polystyrene micro and nanoplastics on the methane generation by anaerobic digestion. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 205, 111095	7	18
149	High-solid anaerobic digestion of sewage sludge: achievements and perspectives. <i>Frontiers of Environmental Science and Engineering</i> , 2021 , 15, 1	5.8	18
148	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	11	17
147	Thermogravimetry-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	6	17
146	Assessment of Heterotrophic Growth Supported by Soluble Microbial Products in Anammox Biofilm using Multidimensional Modeling. <i>Scientific Reports</i> , 2016 , 6, 27576	4.9	17
145	Hydrothermal treatment of erythromycin fermentation residue: Harmless performance and bioresource properties. <i>Resources, Conservation and Recycling</i> , 2020 , 161, 104952	11.9	16
144	Enhancing Anaerobic Digestion of Waste Activated Sludge by Solid-Liquid Separation via Isoelectric Point Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14774-14784	8.3	16

143	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	16.2	16
142	Mechanism analysis to improve sludge dewaterability during anaerobic digestion based on moisture distribution. <i>Chemosphere</i> , 2019 , 227, 247-255	8.4	15
141	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	14.7	15
140	A new process to improve short-chain fatty acids and bio-methane generation from waste activated sludge. <i>Journal of Environmental Sciences</i> , 2016 , 43, 159-168	6.4	15
139	Multiple selection of resistance genes in arable soil amended with cephalosporin fermentation residue. <i>Soil Biology and Biochemistry</i> , 2019 , 136, 107538	7.5	15
138	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	11	15
137	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	10.2	15
136	Hygienic treatment and energy recovery of dead animals by high solid co-digestion with vinasse under mesophilic condition: feasibility study. <i>Journal of Hazardous Materials</i> , 2015 , 297, 320-8	12.8	14
135	Development of polymeric iron/zirconium-pillared clinoptilolite for simultaneous removal of multiple inorganic contaminants from wastewater. <i>Chemical Engineering Journal</i> , 2018 , 347, 819-827	14.7	14
134	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	5.1	14
133	Assessing chromate reduction by dissimilatory iron reducing bacteria using mathematical modeling. <i>Chemosphere</i> , 2015 , 139, 334-9	8.4	13
132	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	10.2	13
131	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	11	13
130	Electrochemical pretreatment of waste activated sludge: effect of process conditions on sludge disintegration degree and methane production. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 2935-44	2.6	13
129	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	14.7	13
128	Dosage effects of lincomycin mycelial residues on lincomycin resistance genes and soil microbial communities. <i>Environmental Pollution</i> , 2020 , 256, 113392	9.3	13
127	Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. <i>Chemosphere</i> , 2020 , 243, 125421	8.4	13
126	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	10.2	13

125	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	12.8	13
124	Characterizing the sludge moisture distribution during anaerobic digestion process through various approaches. <i>Science of the Total Environment</i> , 2019 , 675, 184-191	10.2	12
123	Effects of NaCl and phenol on anammox performance in mainstream reactors with low nitrogen concentration and low temperature. <i>Biochemical Engineering Journal</i> , 2019 , 147, 72-80	4.2	11
122	Model-based assessment of estrogen removal by nitrifying activated sludge. <i>Chemosphere</i> , 2018 , 197, 430-437	8.4	11
121	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	8.4	11
120	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	12.5	11
119	Free-conditioning dewatering of sewage sludge through in situ propane hydrate formation. <i>Water Research</i> , 2018 , 145, 464-472	12.5	10
118	Change of thermal drying characteristics for dewatered sewage sludge based on anaerobic digestion. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 307-312	4.1	10
117	Ecosystem activation system (EAS) technology for remediation of eutrophic freshwater. <i>Scientific Reports</i> , 2017 , 7, 4818	4.9	10
116	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	10.2	10
115	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	7.9	10
114	Effect of reusing the advanced-softened, silica-rich, oilfield-produced water (ASOW) on finned tubes in steam-injection boiler. <i>Desalination</i> , 2015 , 372, 17-25	10.3	9
113	Partial nitrification with aerobic duration control of carbon-captured blackwater: Process operation and model-based evaluation. <i>Chemical Engineering Journal</i> , 2020 , 401, 126060	14.7	9
112	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	9.3	9
111	Alkaline-thermally treated penicillin V mycelial residue amendment improved the soil properties without triggering antibiotic resistance. <i>Waste Management</i> , 2020 , 105, 248-255	8.6	9
110	A new biological process for short-chain fatty acid generation from waste activated sludge improved by Clostridiales enhancement. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 23972-23982	5.1	9
109	Performance and microbial ecology of a nitrification sequencing batch reactor treating high-strength ammonia wastewater. <i>Scientific Reports</i> , 2016 , 6, 35693	4.9	9
108	Pretreatment using UV combined with CaO 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	12.8	9

107	Excess sludge and herbaceous plant co-digestion for volatile fatty acids generation improved by protein and cellulose conversion enhancement. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 1492-504	5.1	8
106	Alkaline-thermal pretreatment of spectinomycin mycelial residues: Insights on anaerobic biodegradability and the fate of antibiotic resistance genes. <i>Chemosphere</i> , 2020 , 261, 127821	8.4	8
105	Anaerobic digestion of sludge differing in inorganic solids content: performance comparison and the effect of inorganic suspended solids content on degradation. <i>Water Science and Technology</i> , 2016 , 74, 2152-2161	2.2	8
104	Novel CaO 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	11	8
103	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	11.9	8
102	Exploring the bioaccessibility of polybrominated diphenyl ethers (PBDEs) in sewage sludge. <i>Environmental Pollution</i> , 2015 , 207, 1-5	9.3	7
101	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	10.3	7
100	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	7.9	7
99	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	12.8	7
98	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	10.3	7
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