Yan Zhou

List of Publications by Year
in descending order

175 papers	8,411 citations	47 h-index	82 g-index
		47006	58581
177 all docs	177 docs citations	177 times ranked	7400 citing authors

#	Article	IF	Citations
1	The role of nitrite and free nitrous acid (FNA) in wastewater treatment plants. Water Research, 2011, 45, 4672-4682.	11.3	352
2	The role of quorum sensing signalling in EPS production and the assembly of a sludge community into aerobic granules. ISME Journal, 2014, 8, 1186-1197.	9.8	330
3	Anaerobic co-digestion of organic fraction of municipal solid waste (OFMSW): Progress and challenges. Renewable and Sustainable Energy Reviews, 2018, 93, 380-399.	16.4	270
4	Enhanced volatile fatty acids (VFAs) production in a thermophilic fermenter with stepwise pH increase â€“ Investigation on dissolved organic matter transformation and microbial community shift. Water Research, 2017, 112, 261-268.	11.3	237
5	Trace metal speciation and bioavailability in anaerobic digestion: A review. Biotechnology Advances, 2016, 34, 122-136.	11.7	226
6	Free Nitrous Acid Inhibition on Nitrous Oxide Reduction by a Denitrifying-Enhanced Biological Phosphorus Removal Sludge. Environmental Science & Technology, 2008, 42, 8260-8265.	10.0	222
7	Facile fabrication of RGO-WO3 composites for effective visible light photocatalytic degradation of sulfamethoxazole. Applied Catalysis B: Environmental, 2017, 207, 93-102.	20.2	213
8	The effect of pH on solubilization of organic matter and microbial community structures in sludge fermentation. Bioresource Technology, 2015, 190, 289-298.	9.6	169
9	Variations in physical, chemical and biological properties in relation to sludge dewaterability under Fe (II) â€“ Oxone conditioning. Water Research, 2017, 109, 13-23.	11.3	165
10	The challenges of mainstream deammonification process for municipal used water treatment. Applied Microbiology and Biotechnology, 2015, 99, 2485-2490.	3.6	158
11	Characterization of key organic compounds affecting sludge dewaterability during ultrasonication and acidification treatments. Water Research, 2016, 105, 470-478.	11.3	155
12	Impact of pH on the stability, dissolution and aggregation kinetics of silver nanoparticles. Chemosphere, 2019, 216, 297-305.	8.2	153
13	Community quorum sensing signalling and quenching: microbial granular biofilm assembly. Npj Biofilms and Microbiomes, 2015, 1, 15006.	6.4	143
14	Novel mpg-C3N4/TiO2 nanocomposite photocatalytic membrane reactor for sulfamethoxazole photodegradation. Chemical Engineering Journal, 2018, 337, 183-192.	12.7	136
15	The role of conductive materials in the start-up period of thermophilic anaerobic system. Bioresource Technology, 2017, 239, 336-344.	9.6	128
16	Free nitrous acid inhibition on anoxic phosphorus uptake and denitrification by poly-phosphate accumulating organisms. Biotechnology and Bioengineering, 2007, 98, 903-912.	3.3	126
17	Enhanced anaerobic phenol degradation by conductive materials via EPS and microbial community alteration. Chemical Engineering Journal, 2018, 352, 1-9.	12.7	110
18	Ag loaded WO3 nanoplates for efficient photocatalytic degradation of sulfanilamide and their bactericidal effect under visible light irradiation. Journal of Hazardous Materials, 2016, 318, 407-416.	12.4	109

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19	Could polyphosphate-accumulating organisms (PAOs) be glycogen-accumulating organisms (GAOs)?. Water Research, 2008, 42, 2361-2368.	11.3	107
20	Comparison of single-stage and two-phase anaerobic sludge digestion systems â€“ Performance and microbial community dynamics. Chemosphere, 2015, 140, 54-62.	8.2	106
21	Raw biomass electroreforming coupled to green hydrogen generation. Nature Communications, 2021, 12, 2008.	12.8	104
22	Biochemistry-Enabled 3D Foams for Ultrafast Battery Cathodes. ACS Nano, 2015, 9, 4628-4635.	14.6	102
23	Enhanced sludge solubilization and dewaterability by synergistic effects of nitrite and freezing. Water Research, 2018, 130, 208-214.	11.3	98
24	Comparison of different treatment methods for protein solubilisation from waste activated sludge. Water Research, 2017, 122, 492-502.	11.3	95
25	Transformation of dissolved organic matters produced from alkaline-ultrasonic sludge pretreatment in anaerobic digestion: From macro to micro. Water Research, 2018, 142, 138-146.	11.3	91
26	Quorum quenching in anaerobic membrane bioreactor for fouling control. Water Research, 2019, 156, 159-167.	11.3	91
27	Construction of WO₃â€“g-C₃N₄ composites as efficient photocatalysts for pharmaceutical degradation under visible light. Catalysis Science and Technology, 2017, 7, 2591-2600.	4.1	86
28	Coupling anammox with heterotrophic denitrification for enhanced nitrogen removal: A review. Critical Reviews in Environmental Science and Technology, 2021, 51, 2260-2293.	12.8	86
29	Elemental sulfur as electron donor and/or acceptor: Mechanisms, applications and perspectives for biological water and wastewater treatment. Water Research, 2021, 202, 117373.	11.3	80
30	Involvement of the TCA cycle in the anaerobic metabolism of polyphosphate accumulating organisms (PAOs). Water Research, 2009, 43, 1330-1340.	11.3	78
31	Characterization of the refractory dissolved organic matters (rDOM) in sludge alkaline fermentation liquid driven denitrification: Effect of HRT on their fate and transformation. Water Research, 2019, 159, 135-144.	11.3	78
32	Enhanced biological phosphorus removal with different carbon sources. Applied Microbiology and Biotechnology, 2016, 100, 4735-4745.	3.6	77
33	Free nitrous acid (FNA) inhibition on denitrifying poly-phosphate accumulating organisms (DPAOs). Applied Microbiology and Biotechnology, 2010, 88, 359-369.	3.6	76
34	Enhanced photodegradation of sulfamethoxazole by a novel WO3-CNT composite under visible light irradiation. Journal of Alloys and Compounds, 2018, 754, 153-162.	5.5	75
35	Transformation of phosphorus in sewage sludge biochar mediated by a phosphate-solubilizing microorganism. Chemical Engineering Journal, 2019, 359, 1573-1580.	12.7	73
36	Effects of thermal-Fe (II) activated oxone treatment on sludge dewaterability. Chemical Engineering Journal, 2017, 322, 463-471.	12.7	70

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37	Resuscitation, isolation and immobilization of bacterial species for efficient textile wastewater treatment: A critical review and update. Science of the Total Environment, 2020, 730, 139034.	8.0	70
38	Insights into anaerobic transformation of key dissolved organic matters produced by thermal hydrolysis sludge pretreatment. Bioresource Technology, 2018, 266, 60-67.	9.6	69
39	Acetic acid inhibition on methanogens in a two-phase anaerobic process. Biochemical Engineering Journal, 2013, 75, 1-7.	3.6	64
40	Alkali-solubilized organic matter from sludge and its degradability in the anaerobic process. Bioresource Technology, 2016, 200, 579-586.	9.6	64
41	The effect of organic loading rates and nitrogenous compounds on the aerobic granules developed using low strength wastewater. Biochemical Engineering Journal, 2012, 67, 52-59.	3.6	61
42	Direct interspecies electron transfer (DIET) can be suppressed under ammonia-stressed condition â€“ Reevaluate the role of conductive materials. Water Research, 2020, 183, 116094.	11.3	61
43	Development of a 2-sludge, 3-stage system for nitrogen and phosphorous removal from nutrient-rich wastewater using granular sludge and biofilms. Water Research, 2008, 42, 3207-3217.	11.3	58
44	Iron-based advanced oxidation processes for enhancing sludge dewaterability: State of the art, challenges, and sludge reuse. Water Research, 2022, 218, 118499.	11.3	56
45	Enhancement of polychlorinated biphenyl biodegradation by resuscitation promoting factor (Rpf) and Rpf-responsive bacterial community. Chemosphere, 2021, 263, 128283.	8.2	55
46	Ultrathin g-C₃N₄ nanosheets with hexagonal CuS nanoplates as a novel composite photocatalyst under solar light irradiation for H₂ production. Catalysis Science and Technology, 2017, 7, 2050-2056.	4.1	51
47	Multi-cycle operation of enhanced biological phosphorus removal (EBPR) with different carbon sources under high temperature. Water Research, 2017, 114, 308-315.	11.3	50
48	Biological conversion of sulfamethoxazole in an autotrophic denitrification system. Water Research, 2020, 185, 116156.	11.3	50
49	Biochemistry-derived porous carbon-encapsulated metal oxide nanocrystals for enhanced sodium storage. Nano Energy, 2016, 21, 71-79.	16.0	49
50	Free nitrous acid (FNA) induced transformation of sulfamethoxazole in the enriched nitrifying culture. Water Research, 2019, 149, 432-439.	11.3	49
51	Interaction of perfluorooctanoic acid with extracellular polymeric substances - Role of protein. Journal of Hazardous Materials, 2021, 401, 123381.	12.4	49
52	Protein recovery from sludge: A review. Journal of Cleaner Production, 2020, 249, 119373.	9.3	47
53	Nitrous oxide emission by denitrifying phosphorus removal culture using polyhydroxyalkanoates as carbon source. Journal of Environmental Sciences, 2012, 24, 1616-1623.	6.1	46
54	Effects of ZnO nanoparticle exposure on wastewater treatment and soluble microbial products (SMPs) in an anoxic-aerobic membrane bioreactor. Chemosphere, 2017, 171, 446-459.	8.2	45

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55	Profiling of amino acids and their interactions with proteinaceous compounds for sewage sludge dewatering by Fenton oxidation treatment. Water Research, 2020, 175, 115645.	11.3	45
56	Viable but Nonculturable State of Yeast Candida sp. Strain LN1 Induced by High Phenol Concentrations. Applied and Environmental Microbiology, 2021, 87, e0111021.	3.1	45
57	Effects of sludge thermal hydrolysis pretreatment on anaerobic digestion and downstream processes: mechanism, challenges and solutions. Bioresource Technology, 2022, 344, 126248.	9.6	45
58	A novel strategy for enhancing anaerobic biodegradation of an anthraquinone dye reactive blue 19 with resuscitation-promoting factors. Chemosphere, 2021, 263, 127922.	8.2	44
59	Evaluating filterability of different types of sludge by statistical analysis: The role of key organic compounds in extracellular polymeric substances. Chemosphere, 2017, 170, 233-241.	8.2	43
60	Mechanistic insights into a novel nitrilotriacetic acid-Fe0 and CaO2 process for efficient anaerobic digestion sludge dewatering at near-neutral pH. Water Research, 2020, 184, 116149.	11.3	43
61	The source of reducing power in the anaerobic metabolism of polyphosphate accumulating organisms (PAOs) â€“ a mini-review. Water Science and Technology, 2010, 61, 1653-1662.	2.5	42
62	New direction in biological nitrogen removal from industrial nitrate wastewater via anammox. Applied Microbiology and Biotechnology, 2019, 103, 7459-7466.	3.6	42
63	Effect of Synthesis Method on the Nanostructure and Solar-Driven Photocatalytic Properties of TiO₂-CuS Composites. ACS Sustainable Chemistry and Engineering, 2017, 5, 1347-1357.	6.7	41
64	The interactive effects of ammonia and carbon nanotube on anaerobic digestion. Chemical Engineering Journal, 2019, 372, 332-340.	12.7	41
65	Trace determination of eleven natural estrogens and insights from their occurrence in a municipal wastewater treatment plant and river water. Water Research, 2020, 182, 115976.	11.3	40
66	The role of hydrogenotrophic methanogens in an acidogenic reactor. Chemosphere, 2015, 140, 40-46.	8.2	39
67	Determination of the archaeal and bacterial communities in two-phase and single-stage anaerobic systems by 454 pyrosequencing. Journal of Environmental Sciences, 2015, 36, 121-129.	6.1	39
68	Response of poly-phosphate accumulating organisms to free nitrous acid inhibition under anoxic and aerobic conditions. Bioresource Technology, 2012, 116, 340-347.	9.6	38
69	Denitrifiers in Mainstream Anammox Processes: Competitors or Supporters?. Environmental Science & Technology, 2019, 53, 11063-11065.	10.0	38
70	In tandem effects of activated carbon and quorum quenching on fouling control and simultaneous removal of pharmaceutical compounds in membrane bioreactors. Chemical Engineering Journal, 2018, 341, 610-617.	12.7	36
71	Enhanced power generation in microbial fuel cell by an agonist of electroactive biofilm â€“ Sulfamethoxazole. Chemical Engineering Journal, 2020, 384, 123238.	12.7	36
72	Insights into quorum quenching mechanisms to control membrane biofouling under changing organic loading rates. Chemosphere, 2017, 182, 40-47.	8.2	36

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73	Enhanced volatile fatty acid production and microbial population analysis in anaerobic treatment of high strength wastewater. Journal of Water Process Engineering, 2020, 33, 101058.	5.6	35
74	Long solid retention time (SRT) has minor role in promoting methane production in a 65 Â°C single-stage anaerobic sludge digester. Bioresource Technology, 2018, 247, 724-729.	9.6	34
75	Degradation of Chloramphenicol with Novel Metal Foam Electrodes in Bioelectrochemical Systems. Electrochimica Acta, 2017, 240, 136-145.	5.2	32
76	NOB suppression in pilot-scale mainstream nitritation-denitritation system coupled with MBR for municipal wastewater treatment. Chemosphere, 2019, 216, 633-639.	8.2	32
77	Quorum quenching altered microbial diversity and activity of anaerobic membrane bioreactor (AnMBR) and enhanced methane generation. Bioresource Technology, 2020, 315, 123862.	9.6	32
78	Energy utilization in sewage treatment â€“ a review with comparisons. Journal of Water and Climate Change, 2013, 4, 1-10.	2.9	31
79	Metagenomic insights into the effect of thermal hydrolysis pre-treatment on microbial community of an anaerobic digestion system. Science of the Total Environment, 2021, 791, 148096.	8.0	31
80	Surveillance of Wastewater for Early Epidemic Prediction (SWEEP): Environmental and health security perspectives in the post COVID-19 Anthropocene. Environmental Research, 2021, 195, 110831.	7.5	30
81	Effect of sludge retention time on microbial succession and assembly in thermal hydrolysis pretreated sludge digesters: Deterministic versus stochastic processes. Water Research, 2022, 209, 117900.	11.3	30
82	New insights on the sludge fermentation liquid driven denitrification: Evaluation of the system performance and effluent organic matter (EfOM). Bioresource Technology, 2019, 289, 121621.	9.6	29
83	Bayesian LSTM With Stochastic Variational Inference for Estimating Model Uncertainty in Processâ€Based Hydrological Models. Water Resources Research, 2021, 57, e2021WR029772.	4.2	29
84	Unveiling the role of activated carbon on hydrolysis process in anaerobic digestion. Bioresource Technology, 2020, 296, 122366.	9.6	28
85	N2O accumulation from denitrification under different temperatures. Applied Microbiology and Biotechnology, 2015, 99, 9215-9226.	3.6	27
86	Deposition of silver nanoparticles onto two dimensional BiOCl nanodiscs for enhanced visible light photocatalytic and biocidal activities. RSC Advances, 2016, 6, 64911-64920.	3.6	27
87	Challenges of THP-AD centrate treatment using partial nitritation-anammox (PN/A) â€“ inhibition, biomass washout, low alkalinity, recalcitrant and more. Water Research, 2021, 203, 117555.	11.3	27
88	Long term impact of surfactants & polymers on the colloidal stability, aggregation and dissolution of silver nanoparticles. Environmental Research, 2019, 179, 108781.	7.5	26
89	Fluorine and Carbon Codoped Macroporous Titania Microspheres: Highly Effective Photocatalyst for the Destruction of Airborne Styrene under Visible Light. Journal of Physical Chemistry C, 2008, 112, 19655-19661.	3.1	25
90	Performance and microbial community analysis in alkaline two-stage enhanced anaerobic sludge digestion system. Biochemical Engineering Journal, 2016, 105, 296-305.	3.6	25

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91	A novel A-B process for enhanced biological nutrient removal in municipal wastewater reclamation. Chemosphere, 2017, 189, 39-45.	8.2	25
92	The selective pressure of quorum quenching on microbial communities in membrane bioreactors. Chemosphere, 2020, 247, 125953.	8.2	25
93	Development and potential of new generation photocatalytic systems for air pollution abatement: an overview. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 387-402.	1.5	24
94	Highly Thermostable Anatase Titania-Pillared Clay for the Photocatalytic Degradation of Airborne Styrene. Environmental Science & Technology, 2009, 43, 538-543.	10.0	24
95	Mammalian Mon2/Ysl2 regulates endosome-to-Golgi trafficking but possesses no guanine nucleotide exchange activity toward Arl1 GTPase. Scientific Reports, 2013, 3, 3362.	3.3	24
96	Pilot-scale landfill with leachate recirculation for enhanced stabilization. Biochemical Engineering Journal, 2016, 105, 437-445.	3.6	24
97	Liquid and solids separation for target resource recovery from thermal hydrolyzed sludge. Water Research, 2020, 171, 115476.	11.3	24
98	Dynamics of propionic acid degradation in a two-phase anaerobic system. Chemosphere, 2015, 140, 47-53.	8.2	23
99	Simultaneous nitrification, denitrification and phosphorus removal (SNDPR) in a full-scale water reclamation plant located in warm climate. Water Science and Technology, 2016, 74, 448-456.	2.5	23
100	High efficient alternating anaerobic/aerobic process for polyester resin wastewater treatment: Performance and microbial community structure. Biochemical Engineering Journal, 2018, 138, 121-130.	3.6	23
101	Concentration dependent effect of humic acid on the transformations of silver nanoparticles. Journal of Molecular Liquids, 2019, 284, 291-299.	4.9	23
102	Effects of Fe(II) on anammox community activity and physiologic response. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	6.0	23
103	Pyrite assisted peroxymonosulfate sludge conditioning: Uncover triclosan transformation during treatment. Journal of Hazardous Materials, 2021, 413, 125368.	12.4	23
104	Acetic acid effects on methanogens in the second stage of a two-stage anaerobic system. Chemosphere, 2016, 144, 1498-1504.	8.2	22
105	Nitrite-driven abiotic transformation of sulfonamide micropollutants during freezing process. Chemical Engineering Journal, 2017, 327, 1128-1134.	12.7	22
106	Amino acids stimulate the endosome-to-Golgi trafficking through Ragulator and small GTPase Arl5. Nature Communications, 2018, 9, 4987.	12.8	22
107	Low-temperature-steam activation of phosphorus in biochar derived from enhanced biological phosphorus removal (EBPR) sludge. Water Research, 2019, 161, 202-210.	11.3	22
108	In-situ power generation and nutrients recovery from waste activated sludge â€“ Long-term performance and system optimization. Chemical Engineering Journal, 2019, 361, 1207-1214.	12.7	22

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109	Interactive influence of extracellular polymeric substances (EPS) and electrolytes on the colloidal stability of silver nanoparticles. Environmental Science: Nano, 2020, 7, 186-197.	4.3	22
110	Thermal hydrolyzed food waste liquor as liquid organic fertilizer. Science of the Total Environment, 2021, 775, 145786.	8.0	22
111	pH-Dependent Transformation of Ag Nanoparticles in Anaerobic Processes. Environmental Science & Technology, 2013, 47, 12630-12631.	10.0	21
112	Mitigation of membrane fouling in a seawater-driven forward osmosis system for waste activated sludge thickening. Journal of Cleaner Production, 2019, 241, 118373.	9.3	21
113	Impact of undissociated volatile fatty acids on acidogenesis in a two-phase anaerobic system. Journal of Environmental Sciences, 2016, 42, 196-201.	6.1	20
114	In-situ sludge pretreatment in a single-stage anaerobic digester. Bioresource Technology, 2017, 238, 102-108.	9.6	20
115	Organics transformation and energy production potential in a high rate A-stage system: A demo-scale study. Bioresource Technology, 2020, 295, 122300.	9.6	20
116	The impact of temperature on the metabolism of volatile fatty acids by polyphosphate accumulating organisms (PAOs). Environmental Research, 2020, 188, 109729.	7.5	20
117	Role of respiratory terminal oxidases in the extracellular electron transfer ability of cyanobacteria. Biotechnology and Bioengineering, 2018, 115, 1361-1366.	3.3	19
118	Hydrogen production from a thermophilic alkaline waste activated sludge fermenter: Effects of solid retention time (SRT). Chemosphere, 2018, 206, 101-106.	8.2	18
119	Biotransformation of phosphorus in enhanced biological phosphorus removal sludge biochar. Water Research, 2020, 169, 115255.	11.3	18
120	Distinct mechanisms in the heteroaggregation of silver nanoparticles with mineral and microbial colloids. Water Research, 2020, 170, 115332.	11.3	18
121	Development of a denitrification system using primary sludge as solid carbon source â€“ Potential to couple with anammox process. Science of the Total Environment, 2020, 737, 140315.	8.0	17
122	Butyrate can support PAOs but not GAOs in tropical climates. Water Research, 2021, 193, 116884.	11.3	17
123	Responses of mesophilic anaerobic sludge microbiota to thermophilic conditions: Implications for start-up and operation of thermophilic THP-AD systems. Water Research, 2022, 216, 118332.	11.3	17
124	Free nitrous acid inhibition on carbon storage microorganisms: Accumulated inhibitory effects and recoverability. Chemical Engineering Journal, 2016, 287, 285-291.	12.7	16
125	Process optimization for simultaneous antibiotic removal and precious metal recovery in an energy neutral process. Science of the Total Environment, 2019, 695, 133914.	8.0	16
126	Primary sludge as solid carbon source for biological denitrification: System optimization at micro-level. Environmental Research, 2020, 191, 110160.	7.5	16

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127	Effective biological nitrogen process and nitrous oxide emission characteristics for the treatment of landfill leachate with low carbon-to-nitrogen ratio. Journal of Cleaner Production, 2020, 268, 122289.	9.3	16
128	NOB suppression strategies in a mainstream membrane aerated biofilm reactor under exceptionally low lumen pressure. Chemosphere, 2022, 290, 133386.	8.2	16
129	The role of methanogens in acetic acid production under different salinity conditions. Chemosphere, 2016, 161, 53-60.	8.2	15
130	Genetic improvement of Magnetospirillum gryphiswaldense for enhanced biological removal of phosphate. Biotechnology Letters, 2017, 39, 1509-1514.	2.2	15
131	Integrated powdered activated carbon and quorum quenching strategy for biofouling control in industrial wastewater membrane bioreactor. Journal of Cleaner Production, 2021, 279, 123551.	9.3	15
132	In-situ alkaline enhanced two-stage anaerobic digestion system for waste cooking oil and sewage sludge co-digestion. Waste Management, 2021, 120, 221-229.	7.4	15
133	Reduction of refractory Maillard reaction products by Fe3+ during thermal hydrolysis pretreatment and enhanced sludge biodegradability. Journal of Hazardous Materials, 2022, 430, 128400.	12.4	15
134	Effect of Ethylenediamine-N,Nâ€²-disuccinic acid (EDDS) on the speciation and bioavailability of Fe2+ in the presence of sulfide in anaerobic digestion. Bioresource Technology, 2017, 229, 169-179.	9.6	14
135	Microâ€“level evaluation of organic compounds transformation in anaerobic digestion under feast and famine conditions assisted by ironâ€“based materials â€“ Revealing the true mechanism of AD enhancement. Environment International, 2020, 135, 105362.	10.0	14
136	Enhanced carbon capture biosorption through process manipulation. Biochemical Engineering Journal, 2015, 93, 128-136.	3.6	13
137	Soluble microbial products (SMPs) in a sequencing batch reactor with novel cake filtration system. Chemosphere, 2017, 184, 1286-1297.	8.2	13
138	Wastewater treatment and recycle from a semiconductor industry: A demo-plant study. Water Practice and Technology, 2019, 14, 371-379.	2.0	13
139	Biosorption for carbon capture on acclimated sludgeâ¿¿Process kinetics and microbial community. Biochemical Engineering Journal, 2016, 114, 119-129.	3.6	12
140	Insights into thermal hydrolyzed sludge liquor - Identification of plant-growth-promoting compounds. Journal of Hazardous Materials, 2021, 403, 123650.	12.4	12
141	Triclosan transformation and impact on an elemental sulfur-driven sulfidogenic process. Chemical Engineering Journal, 2021, 421, 129634.	12.7	12
142	Genome-centric metagenomics analysis revealed the metabolic function of abundant microbial communities in thermal hydrolysis-assisted thermophilic anaerobic digesters under propionate stress. Bioresource Technology, 2022, 360, 127574.	9.6	12
143	Recycling Bacteria for the Synthesis of LiMPO₄ (M = Fe, Mn) Nanostructures for Highâ€Power Lithium Batteries. Small, 2014, 10, 3997-4002.	10.0	11
144	Dosing of Ethylenediamine-N,Nâ€²-disuccinic acid (EDDS) to improve the bioavailability of Fe2+ in the presence of sulfide in a submerged anaerobic membrane bioreactor. Chemical Engineering Journal, 2017, 330, 175-182.	12.7	11

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145	A Specious Correlation between Sludge Rheology and Dewaterability. Environmental Science & Technology, 2020, 54, 5928-5930.	10.0	11
146	Defluviicoccus vanus Glycogen-Accumulating Organisms (DvGAOs) Are Less Competitive Than Polyphosphate-Accumulating Organisms (PAOs) at High Temperature. ACS ES&T Water, 2021, 1, 319-327.	4.6	11
147	Comparative study of low-energy ultrasonic and alkaline treatment on biosludge from secondary industrial wastewater treatment. Environmental Technology (United Kingdom), 2015, 36, 2239-2248.	2.2	10
148	The presence of ferrihydrite enhances greenhouse gas-methane emission in the environment. Science of the Total Environment, 2019, 688, 462-469.	8.0	10
149	A potential phosphorus fertilizer to alleviate the coming â€œphosphorus crisisâ€•biochar derived from enhanced biological phosphorus removal sludge. Science of the Total Environment, 2022, 838, 156559.	8.0	10
150	Novel carboxylated graphene oxideâ€‹<scp>CuS</scp>â€Ag nanocomposite glass coating for organic degradation under solar light. Journal of Chemical Technology and Biotechnology, 2017, 92, 2626-2634.	3.2	9
151	On-line biofilm strength detection in cross-flow membrane filtration systems. Biofouling, 2018, 34, 123-131.	2.2	9
152	Effect of a high strength chemical industry wastewater on microbial community dynamics and mesophilic methane generation. Journal of Environmental Sciences, 2014, 26, 875-884.	6.1	8
153	Microbial stress mediated intercellular nanotubes in an anaerobic microbial consortium digesting cellulose. Scientific Reports, 2017, 7, 18006.	3.3	8
154	Differential transformation and antibacterial effects of silver nanoparticles in aerobic and anaerobic environment. Nanotoxicology, 2019, 13, 339-353.	3.0	8
155	Comparison of nitrous oxide emission between a partial and full nitrification enriched ammonia-oxidising culture. Chemosphere, 2019, 220, 974-982.	8.2	8
156	Integrated thermal hydrolysis pretreated anaerobic digestion centrate and municipal wastewater treatment via partial nitritation/anammox process: A promising approach to alleviate inhibitory effects and enhance nitrogen removal. Bioresource Technology, 2022, 356, 127310.	9.6	8
157	Effect of operating conditions on speciation and bioavailability of trace metals in submerged anaerobic membrane bioreactors. Bioresource Technology, 2017, 243, 810-819.	9.6	7
158	Mainstream nitrogen removal in membrane aerated biofilm reactor at minimal lumen pressure. Science of the Total Environment, 2022, 818, 151758.	8.0	7
159	Visible-light photoresponsive heterojunctions of (Nbâ€“Tiâ€“Si) and (Bi/Bi-O) nanoparticles. Electrochemistry Communications, 2009, 11, 509-514.	4.7	6
160	Measure microbial activity driven oxygen transfer in membrane aerated biofilm reactor from supply side. Environmental Research, 2021, 195, 110845.	7.5	6
161	Imaging Beads-Retained Prey Assay for Rapid and Quantitative Protein-Protein Interaction. PLoS ONE, 2013, 8, e59727.	2.5	6
162	Biomass enhances the reduction of oxidized pellets with carbon monoxide. Bioresource Technology, 2021, 331, 124973.	9.6	5

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163	Effect of Sodium on Methanogens in a Two-Stage Anaerobic System. Applied Sciences (Switzerland), 2022, 12, 956.	2.5	5
164	Effect of hydrodynamic conditions on the formation and structure of aerobic granular sludge performing enhanced biological phosphorus removal. Water and Environment Journal, 2022, 36, 56-66.	2.2	4
165	Mitigation of inhibitory effect of THP-AD centrate on partial nitritation and anammox: Insights into ozone pretreatment. Journal of Hazardous Materials, 2022, 431, 128599.	12.4	4
166	Metagenomic assembled genomes unravel purple nonâ€‘sulfur bacteria (PNSB) involved in integrating C, N, P biotransformation. Science of the Total Environment, 2022, 830, 154591.	8.0	4
167	Regression based state space adaptive model of two-phase anaerobic reactor. Chemosphere, 2015, 140, 159-166.	8.2	3
168	Effects of trace metal deficiency and supplementation on a submerged anaerobic membrane bioreactor. Bioresource Technology, 2017, 241, 161-170.	9.6	3
169	The role of ammonium oxidising bacteria (AOB) in ionic liquid 1-dodecylpyridinium chloride removal. Applied Microbiology and Biotechnology, 2019, 103, 4595-4604.	3.6	3
170	The interaction between ionic liquids (ILs) and an enriched ammonia oxidising bacteria (AOB) culture. Chemosphere, 2019, 235, 842-848.	8.2	2
171	Molecular mechanisms governing aerobic granular sludge processes. Water Practice and Technology, 2015, 10, 277-281.	2.0	1
172	Observation of the interactions of silver nanoparticles (AgNPs) mediated by acid in the aquatic matrices using in-situ liquid cell transmission electron microscopy. Analytica Chimica Acta, 2020, 1104, 47-52.	5.4	1
173	Pathways and Mechanisms of Single-Cell Protein Production: Carbon and Nutrient Transformation. ACS ES&T Water, 2021, 1, 1313-1320.	4.6	1
174	Water and environment innovation in Singapore and China. Water and Environment Journal, 2021, 35, 863-864.	2.2	0
175	Single-cell protein production using anaerobic digestate. , 2022, , 343-358.		0