

Jianwei Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,423
citations

126907

33
h-index

223800

46
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all docs

46
docs citations

46
times ranked

2593
citing authors

#	ARTICLE	IF	CITATIONS
1	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , 2018, 247, 537-544.	9.6	297
2	Free nitrous acid serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. <i>Water Research</i> , 2015, 78, 111-120.	11.3	189
3	Photo-reduction of bromate in drinking water by metallic Ag and reduced graphene oxide (RGO) jointly modified BiVO ₄ under visible light irradiation. <i>Water Research</i> , 2016, 101, 555-563.	11.3	170
4	Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017, 124, 269-279.	11.3	157
5	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018, 130, 281-290.	11.3	156
6	An efficient and green pretreatment to stimulate short-chain fatty acids production from waste activated sludge anaerobic fermentation using free nitrous acid. <i>Chemosphere</i> , 2016, 144, 160-167.	8.2	137
7	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , 2018, 145, 113-124.	11.3	137
8	Aged refuse enhances anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2017, 123, 724-733.	11.3	136
9	How Does Poly(hydroxyalkanoate) Affect Methane Production from the Anaerobic Digestion of Waste-Activated Sludge?. <i>Environmental Science & Technology</i> , 2015, 49, 12253-12262.	10.0	125
10	Potential impact of salinity on methane production from food waste anaerobic digestion. <i>Waste Management</i> , 2017, 67, 308-314.	7.4	123
11	Is denitrifying anaerobic methane oxidation-centered technologies a solution for the sustainable operation of wastewater treatment Plants?. <i>Bioresource Technology</i> , 2017, 234, 456-465.	9.6	117
12	Effect of emerging pollutant fluoxetine on the excess sludge anaerobic digestion. <i>Science of the Total Environment</i> , 2021, 752, 141932.	8.0	94
13	Revealing the Underlying Mechanisms of How Sodium Chloride Affects Short-Chain Fatty Acid Production from the Cofermentation of Waste Activated Sludge and Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4675-4684.	6.7	92
14	Effect of diclofenac on the production of volatile fatty acids from anaerobic fermentation of waste activated sludge. <i>Bioresource Technology</i> , 2018, 254, 7-15.	9.6	80
15	Feasibility of enhancing short-chain fatty acids production from sludge anaerobic fermentation at free nitrous acid pretreatment: Role and significance of Tea saponin. <i>Bioresource Technology</i> , 2018, 254, 194-202.	9.6	79
16	Aged refuse enhances anaerobic fermentation of food waste to produce short-chain fatty acids. <i>Bioresource Technology</i> , 2019, 289, 121547.	9.6	78
17	Improved methane production from waste activated sludge by combining free ammonia with heat pretreatment: Performance, mechanisms and applications. <i>Bioresource Technology</i> , 2018, 268, 230-236.	9.6	77
18	Diclofenac inhibited the biological phosphorus removal: Performance and mechanism. <i>Chemosphere</i> , 2020, 243, 125380.	8.2	76

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19	Clarifying the Role of Free Ammonia in the Production of Short-Chain Fatty Acids from Waste Activated Sludge Anaerobic Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14104-14113.	6.7	73
20	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. <i>Chemosphere</i> , 2018, 213, 276-284.	8.2	70
21	Feasibility of enhancing short-chain fatty acids production from waste activated sludge after free ammonia pretreatment: Role and significance of rhamnolipid. <i>Bioresource Technology</i> , 2018, 267, 141-148.	9.6	70
22	Novel stepwise pH control strategy to improve short chain fatty acid production from sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2018, 249, 431-438.	9.6	67
23	Effect of initial pH on short chain fatty acid production during the anaerobic fermentation of membrane bioreactor sludge enhanced by alkyl polyglucoside. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 283-289.	3.9	60
24	Effect of fluoxetine on enhanced biological phosphorus removal using a sequencing batch reactor. <i>Bioresource Technology</i> , 2021, 320, 124396.	9.6	57
25	Enhanced volatile fatty acids production from waste activated sludge anaerobic fermentation by adding tofu residue. <i>Bioresource Technology</i> , 2019, 274, 430-438.	9.6	55
26	Enhanced hydrogen production from food waste dark fermentation by potassium ferrate pretreatment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 18145-18156.	5.3	53
27	Evaluating the potential impact of hydrochar on the production of short-chain fatty acid from sludge anaerobic digestion. <i>Bioresource Technology</i> , 2017, 246, 234-241.	9.6	52
28	Enhanced production of short-chain fatty acid from food waste stimulated by alkyl polyglycosides and its mechanism. <i>Waste Management</i> , 2015, 46, 133-139.	7.4	51
29	Sulfamethazine (SMZ) affects fermentative short-chain fatty acids production from waste activated sludge. <i>Science of the Total Environment</i> , 2018, 639, 1471-1479.	8.0	51
30	Effective adsorption/electrocatalytic degradation of perchlorate using Pd/Pt supported on N-doped activated carbon fiber cathode. <i>Journal of Hazardous Materials</i> , 2017, 323, 602-610.	12.4	50
31	Effect of acetate to glycerol ratio on enhanced biological phosphorus removal. <i>Chemosphere</i> , 2018, 196, 78-86.	8.2	47
32	Mechanisms of emerging pollutant Dechlorane Plus on the production of short-chain fatty acids from sludge anaerobic fermentation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34902-34912.	5.3	45
33	The behavior of melamine in biological wastewater treatment system. <i>Journal of Hazardous Materials</i> , 2017, 322, 445-453.	12.4	41
34	Combined Effect of Free Nitrous Acid Pretreatment and Sodium Dodecylbenzene Sulfonate on Short-Chain Fatty Acid Production from Waste Activated Sludge. <i>Scientific Reports</i> , 2016, 6, 21622.	3.3	31
35	An efficient process for wastewater treatment to mitigate free nitrous acid generation and its inhibition on biological phosphorus removal. <i>Scientific Reports</i> , 2015, 5, 8602.	3.3	28
36	Complete bromate and nitrate reduction using hydrogen as the sole electron donor in a rotating biofilm-electrode reactor. <i>Journal of Hazardous Materials</i> , 2016, 307, 82-90.	12.4	25

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37	Effect of initial pH on the sludge fermentation performance enhanced by aged refuse at low temperature of 10 Å°C. <i>Environmental Science and Pollution Research</i> , 2020, 27, 31468-31476.	5.3	24
38	Evaluating the effect of fluoxetine on mesophilic anaerobic dark biohydrogen fermentation of excess sludge. <i>Bioresource Technology</i> , 2021, 336, 125320.	9.6	24
39	The fate of cyanuric acid in biological wastewater treatment system and its impact on biological nutrient removal. <i>Journal of Environmental Management</i> , 2018, 206, 901-909.	7.8	24
40	Understanding the mechanism of polybrominated diphenyl ethers reducing the anaerobic co-digestion efficiency of excess sludge and kitchen waste. <i>Environmental Science and Pollution Research</i> , 2022, 29, 41357-41367.	5.3	23
41	Effects of different ratios of glucose to acetate on phosphorus removal and microbial community of enhanced biological phosphorus removal (EBPR) system. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4494-4505.	5.3	18
42	Synergistic effect of free nitrite acid integrated with biosurfactant alkyl polyglucose on sludge anaerobic fermentation. <i>Waste Management</i> , 2018, 78, 310-317.	7.4	17
43	Migration, Transformation and Removal of Macrolide Antibiotics in The Environment: A Review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 26045-26062.	5.3	16
44	New insight into the mechanism of remediation of chromium containing soil by synergetic disposal of ferrous sulfate and digestate. <i>Science of the Total Environment</i> , 2022, 837, 155539.	8.0	13
45	Improved biological phosphorus removal induced by an oxic/extended-idle process using glycerol and acetate at equal fractions. <i>RSC Advances</i> , 2016, 6, 86165-86173.	3.6	12
46	The feasibility of enhanced biological phosphorus removal in the novel oxic/extended idle process using fermentation liquid from sludge fermentation. <i>RSC Advances</i> , 2018, 8, 3321-3327.	3.6	6