

Xuran Liu

List of Publications by Year in descending order

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70
papers

3,596
citations

109264

35
h-index

133188

59
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71
all docs

71
docs citations

71
times ranked

1569
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing the mechanisms of rhamnolipid enhanced hydrogen production from dark fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2022, 806, 150347.	3.9	9
2	Insights into potassium permanganate reducing H ₂ S generation from anaerobic fermentation of sludge. <i>Chemical Engineering Journal</i> , 2022, 430, 133150.	6.6	20
3	The degradation of allyl isothiocyanate and its impact on methane production from anaerobic co-digestion of kitchen waste and waste activated sludge. <i>Bioresource Technology</i> , 2022, 347, 126366.	4.8	6
4	Insights into how poly aluminum chloride and poly ferric sulfate affect methane production from anaerobic digestion of waste activated sludge. <i>Science of the Total Environment</i> , 2022, 811, 151413.	3.9	20
5	Insights into cetyl trimethyl ammonium bromide improving dewaterability of anaerobically fermented sludge. <i>Chemical Engineering Journal</i> , 2022, 435, 134968.	6.6	12
6	Effect of lignin on short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2022, 212, 118082.	5.3	48
7	Evaluating the effect of diclofenac on hydrogen production by anaerobic fermentation of waste activated sludge. <i>Journal of Environmental Management</i> , 2022, 308, 114641.	3.8	11
8	Sulfite-based pretreatment promotes volatile fatty acids production from microalgae: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2022, 354, 127179.	4.8	8
9	Ferric chloride aiding nitrite pretreatment for the enhancement of the quantity and quality of short-chain fatty acids production in waste activated sludge. <i>Water Research</i> , 2022, 219, 118569.	5.3	12
10	Microplastics aging in wastewater treatment plants: Focusing on physicochemical characteristics changes and corresponding environmental risks. <i>Water Research</i> , 2022, 221, 118780.	5.3	29
11	Rhamnolipid increases H ₂ S generation from waste activated sludge anaerobic fermentation: An overlooked concern. <i>Water Research</i> , 2022, 221, 118742.	5.3	29
12	Peracetic acid promotes biohydrogen production from anaerobic dark fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2022, 844, 156991.	3.9	16
13	Understanding the interaction between triclocarban and denitrifiers. <i>Journal of Hazardous Materials</i> , 2021, 401, 123343.	6.5	16
14	Mechanisms of potassium permanganate pretreatment improving anaerobic fermentation performance of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021, 406, 126797.	6.6	64
15	Towards hydrogen production from waste activated sludge: Principles, challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110283.	8.2	86
16	Mechanistic insights into the effect of poly ferric sulfate on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 189, 116645.	5.3	95
17	Spatial distribution, sources and risk assessment of perfluoroalkyl substances in surface soils of a representative densely urbanized and industrialized city of China. <i>Catena</i> , 2021, 198, 105059.	2.2	16
18	Understanding the fate and impact of capsaicin in anaerobic co-digestion of food waste and waste activated sludge. <i>Water Research</i> , 2021, 188, 116539.	5.3	99

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19	Understanding the mechanism of how anaerobic fermentation deteriorates sludge dewaterability. <i>Chemical Engineering Journal</i> , 2021, 404, 127026.	6.6	51
20	The fate and impact of coagulants/flocculants in sludge treatment systems. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1387-1401.	1.2	6
21	Revealing how the entering nano-titanium dioxide in wastewater worsened sludge dewaterability. <i>Chemical Engineering Journal</i> , 2021, 411, 128465.	6.6	32
22	Digestion liquid based alkaline pretreatment of waste activated sludge promotes methane production from anaerobic digestion. <i>Water Research</i> , 2021, 199, 117198.	5.3	63
23	Understanding and regulating the impact of tetracycline to the anaerobic fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2021, 313, 127929.	4.6	23
24	Triclosan degradation in sludge anaerobic fermentation and its impact on hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 421, 129948.	6.6	24
25	In-depth research on percarbonate expediting zero-valent iron corrosion for conditioning anaerobically digested sludge. <i>Journal of Hazardous Materials</i> , 2021, 419, 126389.	6.5	23
26	Alkaline pre-fermentation for anaerobic digestion of polyacrylamide flocculated sludge: Simultaneously enhancing methane production and polyacrylamide degradation. <i>Chemical Engineering Journal</i> , 2021, 425, 131407.	6.6	21
27	Effect of sodium dodecylbenzene sulfonate on hydrogen production from dark fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2021, 799, 149383.	3.9	30
28	Free ammonia pretreatment assists potassium ferrate to enhance the production of short-chain fatty acids from waste activated sludge: Performance, mechanisms and applications. <i>Journal of Cleaner Production</i> , 2021, 328, 129620.	4.6	16
29	How Does Chitosan Affect Methane Production in Anaerobic Digestion?. <i>Environmental Science & Technology</i> , 2021, 55, 15843-15852.	4.6	76
30	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020, 169, 115249.	5.3	75
31	New insight into modification of extracellular polymeric substances extracted from waste activated sludge by homogeneous Fe(II)/persulfate process. <i>Chemosphere</i> , 2020, 247, 125804.	4.2	24
32	Enhanced dark fermentative hydrogen production from waste activated sludge by combining potassium ferrate with alkaline pretreatment. <i>Science of the Total Environment</i> , 2020, 707, 136105.	3.9	39
33	Sulfite serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. <i>Chemical Engineering Journal</i> , 2020, 385, 123991.	6.6	131
34	The inhibitory effect of thiosulfinate on volatile fatty acid and hydrogen production from anaerobic co-fermentation of food waste and waste activated sludge. <i>Bioresource Technology</i> , 2020, 297, 122428.	4.8	15
35	Freezing in the presence of nitrite pretreatment enhances hydrogen production from dark fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2020, 248, 119305.	4.6	45
36	Enhancement of short-chain fatty acids production from microalgae by potassium ferrate addition: Feasibility, mechanisms and implications. <i>Bioresource Technology</i> , 2020, 318, 124266.	4.8	44

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37	Clarithromycin affect methane production from anaerobic digestion of waste activated sludge. <i>Journal of Cleaner Production</i> , 2020, 255, 120321.	4.6	39
38	Calcium peroxide eliminates grease inhibition and promotes short-chain fatty acids production during anaerobic fermentation of food waste. <i>Bioresource Technology</i> , 2020, 316, 123947.	4.8	15
39	The fate and impact of TCC in nitrifying cultures. <i>Water Research</i> , 2020, 178, 115851.	5.3	28
40	Performance and Mechanism of Potassium Ferrate(VI) Enhancing Dark Fermentative Hydrogen Accumulation from Waste Activated Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8681-8691.	3.2	25
41	Peroxide/Zero-valent iron (Fe0) pretreatment for promoting dewaterability of anaerobically digested sludge: A mechanistic study. <i>Journal of Hazardous Materials</i> , 2020, 400, 123112.	6.5	49
42	Iron electrodes activating persulfate enhances acetic acid production from waste activated sludge. <i>Chemical Engineering Journal</i> , 2020, 390, 124580.	6.6	18
43	Norfloxacin-induced effect on enhanced biological phosphorus removal from wastewater after long-term exposure. <i>Journal of Hazardous Materials</i> , 2020, 392, 122336.	6.5	21
44	Activation of nitrite by freezing process for anaerobic digestion enhancement of waste activated sludge: Performance and mechanisms. <i>Chemical Engineering Journal</i> , 2020, 387, 124147.	6.6	70
45	The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2019, 164, 114934.	5.3	184
46	Land reclamation threatens sandpipers. <i>Science</i> , 2019, 365, 454-454.	6.0	0
47	Microwave pretreatment of polyacrylamide flocculated waste activated sludge: Effect on anaerobic digestion and polyacrylamide degradation. <i>Bioresource Technology</i> , 2019, 290, 121776.	4.8	31
48	How does zero valent iron activating peroxydisulfate improve the dewatering of anaerobically digested sludge?. <i>Water Research</i> , 2019, 163, 114912.	5.3	124
49	The novel pretreatment of Co ²⁺ activating peroxymonosulfate under acidic condition for dewatering waste activated sludge. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 259-267.	2.7	29
50	China's highways threaten wild camels. <i>Science</i> , 2019, 364, 1242-1242.	6.0	3
51	Effect of poly aluminum chloride on dark fermentative hydrogen accumulation from waste activated sludge. <i>Water Research</i> , 2019, 153, 217-228.	5.3	93
52	Enhanced methane production from waste activated sludge by combining calcium peroxide with ultrasonic: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 279, 108-116.	4.8	52
53	Enhanced hydrogen accumulation from waste activated sludge by combining ultrasonic and free nitrous acid pretreatment: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 285, 121363.	4.8	28
54	Heat pretreatment assists free ammonia to enhance hydrogen production from waste activated sludge. <i>Bioresource Technology</i> , 2019, 283, 316-325.	4.8	65

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55	Free nitrous acid-based nitrifying sludge treatment in a two-sludge system obtains high polyhydroxyalkanoates accumulation and satisfied biological nutrients removal. <i>Bioresource Technology</i> , 2019, 284, 16-24.	4.8	20
56	Enhanced short-chain fatty acids production from waste activated sludge by sophorolipid: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 284, 456-465.	4.8	91
57	Thermal-alkaline pretreatment of polyacrylamide flocculated waste activated sludge: Process optimization and effects on anaerobic digestion and polyacrylamide degradation. <i>Bioresource Technology</i> , 2019, 281, 158-167.	4.8	68
58	Unveiling the mechanisms of how cationic polyacrylamide affects short-chain fatty acids accumulation during long-term anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2019, 155, 142-151.	5.3	159
59	Free ammonia aids ultrasound pretreatment to enhance short-chain fatty acids production from waste activated sludge. <i>Bioresource Technology</i> , 2019, 275, 163-171.	4.8	88
60	Enhanced Short-Chain Fatty Acids from Waste Activated Sludge by Heat ² CaO ₂ Advanced Thermal Hydrolysis Pretreatment: Parameter Optimization, Mechanisms, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3544-3555.	3.2	71
61	Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. <i>Water Research</i> , 2019, 148, 239-249.	5.3	188
62	Enhanced short-chain fatty acids production from waste activated sludge by combining calcium peroxide with free ammonia pretreatment. <i>Bioresource Technology</i> , 2018, 262, 114-123.	4.8	85
63	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018, 130, 281-290.	5.3	156
64	Revealing the Underlying Mechanisms of How Initial pH Affects Waste Activated Sludge Solubilization and Dewaterability in Freezing and Thawing Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15822-15831.	3.2	35
65	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. <i>Chemosphere</i> , 2018, 213, 276-284.	4.2	70
66	Free Ammonia-Based Pretreatment Promotes Short-Chain Fatty Acid Production from Waste Activated Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9120-9129.	3.2	79
67	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.	4.8	79
68	How does free ammonia-based sludge pretreatment improve methane production from anaerobic digestion of waste activated sludge. <i>Chemosphere</i> , 2018, 206, 491-501.	4.2	50
69	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.	4.8	77
70	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.	4.8	70