

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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all docs

71
docs citations

71
times ranked

1569
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018, 130, 281-290.	5.3	156
5	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
6	How does zero valent iron activating peroxydisulfate improve the dewatering of anaerobically digested sludge?. <i>Water Research</i> , 2019, 163, 114912.	5.3	124
7	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
8	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
9	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
10	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
11	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
12	Towards hydrogen production from waste activated sludge: Principles, challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110283.	8.2	86
13	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
14	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
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.	4.8	79
16	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
17	How Does Chitosan Affect Methane Production in Anaerobic Digestion?. <i>Environmental Science & Technology</i> , 2021, 55, 15843-15852.	4.6	76
18	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020, 169, 115249.	5.3	75

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19	Enhanced Short-Chain Fatty Acids from Waste Activated Sludge by Heat ² CaO ₂ Advanced Thermal Hydrolysis Pretreatment: Parameter Optimization, Mechanisms, and Implications. ACS Sustainable Chemistry and Engineering, 2019, 7, 3544-3555.	3.2	71
20	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. Chemosphere, 2018, 213, 276-284.	4.2	70
21	Feasibility of enhancing short-chain fatty acids production from waste activated sludge after free ammonia pretreatment: Role and significance of rhamnolipid. Bioresource Technology, 2018, 267, 141-148.	4.8	70
22	Activation of nitrite by freezing process for anaerobic digestion enhancement of waste activated sludge: Performance and mechanisms. Chemical Engineering Journal, 2020, 387, 124147.	6.6	70
23	Thermal-alkaline pretreatment of polyacrylamide flocculated waste activated sludge: Process optimization and effects on anaerobic digestion and polyacrylamide degradation. Bioresource Technology, 2019, 281, 158-167.	4.8	68
24	Heat pretreatment assists free ammonia to enhance hydrogen production from waste activated sludge. Bioresource Technology, 2019, 283, 316-325.	4.8	65
25	Mechanisms of potassium permanganate pretreatment improving anaerobic fermentation performance of waste activated sludge. Chemical Engineering Journal, 2021, 406, 126797.	6.6	64
26	Digestion liquid based alkaline pretreatment of waste activated sludge promotes methane production from anaerobic digestion. Water Research, 2021, 199, 117198.	5.3	63
27	Enhanced methane production from waste activated sludge by combining calcium peroxide with ultrasonic: Performance, mechanism, and implication. Bioresource Technology, 2019, 279, 108-116.	4.8	52
28	Understanding the mechanism of how anaerobic fermentation deteriorates sludge dewaterability. Chemical Engineering Journal, 2021, 404, 127026.	6.6	51
29	How does free ammonia-based sludge pretreatment improve methane production from anaerobic digestion of waste activated sludge. Chemosphere, 2018, 206, 491-501.	4.2	50
30	Peroxide/Zero-valent iron (Fe ⁰) pretreatment for promoting dewaterability of anaerobically digested sludge: A mechanistic study. Journal of Hazardous Materials, 2020, 400, 123112.	6.5	49
31	Effect of lignin on short-chain fatty acids production from anaerobic fermentation of waste activated sludge. Water Research, 2022, 212, 118082.	5.3	48
32	Freezing in the presence of nitrite pretreatment enhances hydrogen production from dark fermentation of waste activated sludge. Journal of Cleaner Production, 2020, 248, 119305.	4.6	45
33	Enhancement of short-chain fatty acids production from microalgae by potassium ferrate addition: Feasibility, mechanisms and implications. Bioresource Technology, 2020, 318, 124266.	4.8	44
34	Enhanced dark fermentative hydrogen production from waste activated sludge by combining potassium ferrate with alkaline pretreatment. Science of the Total Environment, 2020, 707, 136105.	3.9	39
35	Clarithromycin affect methane production from anaerobic digestion of waste activated sludge. Journal of Cleaner Production, 2020, 255, 120321.	4.6	39
36	Revealing the Underlying Mechanisms of How Initial pH Affects Waste Activated Sludge Solubilization and Dewaterability in Freezing and Thawing Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 15822-15831.	3.2	35

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37	Revealing how the entering nano-titanium dioxide in wastewater worsened sludge dewaterability. <i>Chemical Engineering Journal</i> , 2021, 411, 128465.	6.6	32
38	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
39	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
40	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
41	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
42	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
43	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
44	The fate and impact of TCC in nitrifying cultures. <i>Water Research</i> , 2020, 178, 115851.	5.3	28
45	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
46	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
47	Triclosan degradation in sludge anaerobic fermentation and its impact on hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 421, 129948.	6.6	24
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Iron electrodes activating persulfate enhances acetic acid production from waste activated sludge. <i>Chemical Engineering Journal</i> , 2020, 390, 124580.	6.6	18
56	Understanding the interaction between triclocarban and denitrifiers. <i>Journal of Hazardous Materials</i> , 2021, 401, 123343.	6.5	16
57	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
58	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
59	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
60	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
61	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
62	Insights into cetyl trimethyl ammonium bromide improving dewaterability of anaerobically fermented sludge. <i>Chemical Engineering Journal</i> , 2022, 435, 134968.	6.6	12
63	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
64	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
65	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
66	Sulfite-based pretreatment promotes volatile fatty acids production from microalgae: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2022, 354, 127179.	4.8	8
67	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
68	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
69	China's highways threaten wild camels. <i>Science</i> , 2019, 364, 1242-1242.	6.0	3
70	Land reclamation threatens sandpipers. <i>Science</i> , 2019, 365, 454-454.	6.0	0