Bing Guo

List of Publications by Year
in descending order

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56	1,178	304368	433756
papers	citations	22 h-index	31 g-index

58	58	58	627
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stimulating Anaerobic Degradation of Butyrate via Syntrophomonas wolfei and Geobacter sulfurreducens: Characteristics and Mechanism. Microbial Ecology, 2023, 85, 535-543.	1.4	3
2	The influent COD/N ratio controlled the linear alkylbenzene sulfonate biodegradation and extracellular polymeric substances accumulation in an oxygen-based membrane biofilm reactor. Journal of Hazardous Materials, 2022, 422, 126862.	6.5	18
3	Roles of granular activated carbon (GAC) and operational factors on active microbiome development in anaerobic reactors. Bioresource Technology, 2022, 343, 126104.	4.8	10
4	Germination and growth of horticultural crops irrigated with reclaimed water after biological treatment and ozonation. Journal of Cleaner Production, 2022, 336, 130173.	4.6	9
5	Impact of pH and removed filtrate on E. coli regrowth and microbial community during storage of electro-dewatered biosolids. Science of the Total Environment, 2022, 814, 152544.	3.9	1
6	Microbial co-occurrence network topological properties link with reactor parameters and reveal importance of low-abundance genera. Npj Biofilms and Microbiomes, 2022, 8, 3.	2.9	52
7	Isolation of functional bacterial strains from chromium-contaminated site and bioremediation potentials. Journal of Environmental Management, 2022, 307, 114557.	3.8	13
8	Two-stage hybrid microalgal electroactive wetland-coupled anaerobic digestion for swine wastewater treatment in South China: Full-scale verification. Science of the Total Environment, 2022, 820, 153312.	3.9	8
9	Enhancing the resistance to H2S toxicity during anaerobic digestion of low-strength wastewater through granular activated carbon (GAC) addition. Journal of Hazardous Materials, 2022, 430, 128473.	6.5	18
10	Response of antibiotic resistance genes and microbial niches to dissolved oxygen in an oxygen-based membrane biofilm reactor during greywater treatment. Science of the Total Environment, 2022, 833, 155062.	3.9	17
11	Metagenomic insights into direct interspecies electron transfer and quorum sensing in blackwater anaerobic digestion reactors supplemented with granular activated carbon. Bioresource Technology, 2022, 352, 127113.	4.8	26
12	Impacts of conductive materials on microbial community during syntrophic propionate oxidization for biomethane recovery. Water Environment Research, 2021, 93, 84-93.	1.3	28
13	Self-fluidized GAC-amended UASB reactor for enhanced methane production. Chemical Engineering Journal, 2021, 420, 127652.	6.6	24
14	Microbial community dynamics in granular activated carbon enhanced up-flow anaerobic sludge blanket (UASB) treating municipal sewage under sulfate reducing and psychrophilic conditions. Chemical Engineering Journal, 2021, 405, 126957.	6.6	30
15	Simultaneous Phosphorus Recovery in Energy Generation Reactor (SPRING): High Rate Thermophilic Blackwater Treatment. Resources, Conservation and Recycling, 2021, 164, 105163.	5.3	24
16	Role of syntrophic acetate oxidation and hydrogenotrophic methanogenesis in co-digestion of blackwater with food waste. Journal of Cleaner Production, 2021, 283, 125393.	4.6	14
17	Plant-wide systems microbiology for the wastewater industry. Environmental Science: Water Research and Technology, 2021, 7, 1687-1706.	1.2	7
18	Evaluation of influent microbial immigration to activated sludge is affected by different-sized community segregation. Npj Clean Water, 2021, 4, .	3.1	4

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19	Key role of soluble microbial products in waste activated sludge reduction by synergetic combination of cocoamidopropyl betaine and alkalinity in the short-time aerobic digestion system. Journal of Hazardous Materials, 2021, 408, 124930.	6.5	4
20	Lumen air pressure (LAP) affecting greywater treatment in an oxygen-based membrane biofilm reactor (O2-MBfR). Chemosphere, 2021, 270, 129541.	4.2	14
21	Effects of micro-aeration on microbial niches and antimicrobial resistances in blackwater anaerobic digesters. Water Research, 2021, 196, 117035.	5.3	39
22	Thermophilic co-digestion of blackwater and organic kitchen waste: Impacts of granular activated carbon and different mixing ratios. Waste Management, 2021, 131, 453-461.	3.7	7
23	Study on the process of simultaneous desalting and boron removal from seawater. Journal of Physics: Conference Series, 2021, 2009, 012044.	0.3	1
24	Freezing pretreatment assists potassium ferrate to promote hydrogen production from anaerobic fermentation of waste activated sludge. Science of the Total Environment, 2021, 781, 146685.	3.9	22
25	Adsorption characteristics of carbon nanotubes on low concentration erythromycin in water. Journal of Physics: Conference Series, 2021, 2009, 012005.	0.3	1
26	Shaping biofilm microbiomes by changing GAC location during wastewater anaerobic digestion. Science of the Total Environment, 2021, 780, 146488.	3.9	18
27	A new non-steady-state mass balance model for quantifying microbiome responses to disturbances in wastewater bioreactors. Journal of Environmental Management, 2021, 296, 113370.	3.8	4
28	Cometabolism accelerated simultaneous ammoxidation and organics mineralization in an oxygen-based membrane biofilm reactor treating greywater under low dissolved oxygen conditions. Science of the Total Environment, 2021, 789, 147898.	3.9	13
29	Enhanced methane production from waste activated sludge by potassium ferrate combined with ultrasound pretreatment. Bioresource Technology, 2021, 341, 125841.	4.8	23
30	Anaerobically digested blackwater treatment by simultaneous denitrification and anammox processes: Feeding loading affects reactor performance and microbial community succession. Chemosphere, 2020, 241, 125101.	4.2	35
31	Biomethane recovery from source-diverted household blackwater: Impacts from feed sulfate. Chemical Engineering Research and Design, 2020, 136, 28-38.	2.7	27
32	Greywater treatment using an oxygen-based membrane biofilm reactor: Formation of dynamic multifunctional biofilm for organics and nitrogen removal. Chemical Engineering Journal, 2020, 386, 123989.	6.6	48
33	RNA-based spatial community analysis revealed intra-reactor variation and expanded collection of direct interspecies electron transfer microorganisms in anaerobic digestion. Bioresource Technology, 2020, 298, 122534.	4.8	39
34	Revealing the mechanisms for potassium ferrate affecting methane production from anaerobic digestion of waste activated sludge. Bioresource Technology, 2020, 317, 124022.	4.8	27
35	Blackwater biomethane recovery using a thermophilic upflow anaerobic sludge blanket reactor: Impacts of effluent recirculation on reactor performance. Journal of Environmental Management, 2020, 274, 111157.	3.8	16
36	Three-dimension oxygen gradient induced low energy input for grey water treatment in an oxygen-based membrane biofilm reactor. Environmental Research, 2020, 191, 110124.	3.7	17

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37	Viability of a Single-Stage Unsaturated-Saturated Granular Activated Carbon Biofilter for Greywater Treatment. Sustainability, 2020, 12, 8847.	1.6	5
38	Single reactor nitritation-denitritation for high strength digested biosolid thickening lagoon supernatant treatment. Biochemical Engineering Journal, 2020, 160, 107630.	1.8	10
39	Key syntrophic partnerships identified in a granular activated carbon amended UASB treating municipal sewage under low temperature conditions. Bioresource Technology, 2020, 312, 123556.	4.8	41
40	Granular activated carbon stimulated microbial physiological changes for enhanced anaerobic digestion of municipal sewage. Chemical Engineering Journal, 2020, 400, 125838.	6.6	44
41	Treatment of grey water (GW) with high linear alkylbenzene sulfonates (LAS) content and carbon/nitrogen (C/N) ratio in an oxygen-based membrane biofilm reactor (O2-MBfR). Chemosphere, 2020, 258, 127363.	4.2	25
42	Mesophiles outperform thermophiles in the anaerobic digestion of blackwater with kitchen residuals: Insights into process limitations. Waste Management, 2020, 105, 279-288.	3.7	20
43	Different micro-aeration rates facilitate production of different end-products from source-diverted blackwater. Water Research, 2020, 177, 115783.	5.3	37
44	Co-digestion of blackwater with kitchen organic waste: Effects of mixing ratios and insights into microbial community. Journal of Cleaner Production, 2019, 236, 117703.	4.6	55
45	Impacts of Continuous Inflow of Low Concentrations of Silver Nanoparticles on Biological Performance and Microbial Communities of Aerobic Heterotrophic Wastewater Biofilm. Environmental Science & Technology, 2019, 53, 9148-9159.	4.6	10
46	Anammox reactor optimization for the treatment of ammonium rich digestate lagoon supernatant - Step feeding mitigates nitrite inhibition. International Biodeterioration and Biodegradation, 2019, 143, 104733.	1.9	16
47	Enhancing biomethane recovery from source-diverted blackwater through hydrogenotrophic methanogenesis dominant pathway. Chemical Engineering Journal, 2019, 378, 122258.	6.6	46
48	Impact of the filamentous fungi overgrowth on the aerobic granular sludge process. Bioresource Technology Reports, 2019, 7, 100272.	1.5	10
49	Microbial community dynamics in anaerobic digesters treating conventional and vacuum toilet flushed blackwater. Water Research, 2019, 160, 249-258.	5.3	71
50	The value of floc and biofilm bacteria for anammox stability when treating ammonia-rich digester sludge thickening lagoon supernatant. Chemosphere, 2019, 233, 472-481.	4.2	36
51	Promoting waste activated sludge reduction by linear alkylbenzene sulfonates: Surfactant dose control extracellular polymeric substances solubilization and microbial community succession. Journal of Hazardous Materials, 2019, 374, 74-82.	6.5	30
52	Wastewater microbial community structure and functional traits change over short timescales. Science of the Total Environment, 2019, 662, 779-785.	3.9	46
53	Analytical Methods for Pesticides and Herbicides. Water Environment Research, 2018, 90, 1323-1347.	1.3	6
54	Composition of heterotrophic specialized sub-guilds defined by a positive RNA and polyhydroxyalkanoate correlation in activated sludge. Water Research, 2018, 144, 561-571.	5.3	6

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55	Physicoâ€Chemical Processes. Water Environment Research, 2018, 90, 1392-1438.	1.3	3
56	Metagenomic Insights into Direct Interspecies Electron Transfer and Quorum Sensing in Blackwater Anaerobic Digestion Reactors Supplemented with Granular Activated Carbon. SSRN Electronic Journal, 0, , .	0.4	0