

Bing Guo

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,178
citations

304368

22
h-index

433756

31
g-index

58
all docs

58
docs citations

58
times ranked

627
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial community dynamics in anaerobic digesters treating conventional and vacuum toilet flushed blackwater. <i>Water Research</i> , 2019, 160, 249-258.	5.3	71
2	Co-digestion of blackwater with kitchen organic waste: Effects of mixing ratios and insights into microbial community. <i>Journal of Cleaner Production</i> , 2019, 236, 117703.	4.6	55
3	Microbial co-occurrence network topological properties link with reactor parameters and reveal importance of low-abundance genera. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, 3.	2.9	52
4	Greywater treatment using an oxygen-based membrane biofilm reactor: Formation of dynamic multifunctional biofilm for organics and nitrogen removal. <i>Chemical Engineering Journal</i> , 2020, 386, 123989.	6.6	48
5	Enhancing biomethane recovery from source-diverted blackwater through hydrogenotrophic methanogenesis dominant pathway. <i>Chemical Engineering Journal</i> , 2019, 378, 122258.	6.6	46
6	Wastewater microbial community structure and functional traits change over short timescales. <i>Science of the Total Environment</i> , 2019, 662, 779-785.	3.9	46
7	Granular activated carbon stimulated microbial physiological changes for enhanced anaerobic digestion of municipal sewage. <i>Chemical Engineering Journal</i> , 2020, 400, 125838.	6.6	44
8	Key syntrophic partnerships identified in a granular activated carbon amended UASB treating municipal sewage under low temperature conditions. <i>Bioresource Technology</i> , 2020, 312, 123556.	4.8	41
9	RNA-based spatial community analysis revealed intra-reactor variation and expanded collection of direct interspecies electron transfer microorganisms in anaerobic digestion. <i>Bioresource Technology</i> , 2020, 298, 122534.	4.8	39
10	Effects of micro-aeration on microbial niches and antimicrobial resistances in blackwater anaerobic digesters. <i>Water Research</i> , 2021, 196, 117035.	5.3	39
11	Different micro-aeration rates facilitate production of different end-products from source-diverted blackwater. <i>Water Research</i> , 2020, 177, 115783.	5.3	37
12	The value of floc and biofilm bacteria for anammox stability when treating ammonia-rich digester sludge thickening lagoon supernatant. <i>Chemosphere</i> , 2019, 233, 472-481.	4.2	36
13	Anaerobically digested blackwater treatment by simultaneous denitrification and anammox processes: Feeding loading affects reactor performance and microbial community succession. <i>Chemosphere</i> , 2020, 241, 125101.	4.2	35
14	Promoting waste activated sludge reduction by linear alkylbenzene sulfonates: Surfactant dose control extracellular polymeric substances solubilization and microbial community succession. <i>Journal of Hazardous Materials</i> , 2019, 374, 74-82.	6.5	30
15	Microbial community dynamics in granular activated carbon enhanced up-flow anaerobic sludge blanket (UASB) treating municipal sewage under sulfate reducing and psychrophilic conditions. <i>Chemical Engineering Journal</i> , 2021, 405, 126957.	6.6	30
16	Impacts of conductive materials on microbial community during syntrophic propionate oxidization for biomethane recovery. <i>Water Environment Research</i> , 2021, 93, 84-93.	1.3	28
17	Biomethane recovery from source-diverted household blackwater: Impacts from feed sulfate. <i>Chemical Engineering Research and Design</i> , 2020, 136, 28-38.	2.7	27
18	Revealing the mechanisms for potassium ferrate affecting methane production from anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2020, 317, 124022.	4.8	27

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19	Metagenomic insights into direct interspecies electron transfer and quorum sensing in blackwater anaerobic digestion reactors supplemented with granular activated carbon. <i>Bioresource Technology</i> , 2022, 352, 127113.	4.8	26
20	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). <i>Chemosphere</i> , 2020, 258, 127363.	4.2	25
21	Self-fluidized GAC-amended UASB reactor for enhanced methane production. <i>Chemical Engineering Journal</i> , 2021, 420, 127652.	6.6	24
22	Simultaneous Phosphorus Recovery in Energy Generation Reactor (SPRING): High Rate Thermophilic Blackwater Treatment. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105163.	5.3	24
23	Enhanced methane production from waste activated sludge by potassium ferrate combined with ultrasound pretreatment. <i>Bioresource Technology</i> , 2021, 341, 125841.	4.8	23
24	Freezing pretreatment assists potassium ferrate to promote hydrogen production from anaerobic fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2021, 781, 146685.	3.9	22
25	Mesophiles outperform thermophiles in the anaerobic digestion of blackwater with kitchen residuals: Insights into process limitations. <i>Waste Management</i> , 2020, 105, 279-288.	3.7	20
26	Shaping biofilm microbiomes by changing GAC location during wastewater anaerobic digestion. <i>Science of the Total Environment</i> , 2021, 780, 146488.	3.9	18
27	The influent COD/N ratio controlled the linear alkylbenzene sulfonate biodegradation and extracellular polymeric substances accumulation in an oxygen-based membrane biofilm reactor. <i>Journal of Hazardous Materials</i> , 2022, 422, 126862.	6.5	18
28	Enhancing the resistance to H ₂ S toxicity during anaerobic digestion of low-strength wastewater through granular activated carbon (GAC) addition. <i>Journal of Hazardous Materials</i> , 2022, 430, 128473.	6.5	18
29	Three-dimension oxygen gradient induced low energy input for grey water treatment in an oxygen-based membrane biofilm reactor. <i>Environmental Research</i> , 2020, 191, 110124.	3.7	17
30	Response of antibiotic resistance genes and microbial niches to dissolved oxygen in an oxygen-based membrane biofilm reactor during greywater treatment. <i>Science of the Total Environment</i> , 2022, 833, 155062.	3.9	17
31	Anammox reactor optimization for the treatment of ammonium rich digestate lagoon supernatant - Step feeding mitigates nitrite inhibition. <i>International Biodeterioration and Biodegradation</i> , 2019, 143, 104733.	1.9	16
32	Blackwater biomethane recovery using a thermophilic upflow anaerobic sludge blanket reactor: Impacts of effluent recirculation on reactor performance. <i>Journal of Environmental Management</i> , 2020, 274, 111157.	3.8	16
33	Role of syntrophic acetate oxidation and hydrogenotrophic methanogenesis in co-digestion of blackwater with food waste. <i>Journal of Cleaner Production</i> , 2021, 283, 125393.	4.6	14
34	Lumen air pressure (LAP) affecting greywater treatment in an oxygen-based membrane biofilm reactor (O2-MBfR). <i>Chemosphere</i> , 2021, 270, 129541.	4.2	14
35	Cometabolism accelerated simultaneous ammoxidation and organics mineralization in an oxygen-based membrane biofilm reactor treating greywater under low dissolved oxygen conditions. <i>Science of the Total Environment</i> , 2021, 789, 147898.	3.9	13
36	Isolation of functional bacterial strains from chromium-contaminated site and bioremediation potentials. <i>Journal of Environmental Management</i> , 2022, 307, 114557.	3.8	13

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37	Impacts of Continuous Inflow of Low Concentrations of Silver Nanoparticles on Biological Performance and Microbial Communities of Aerobic Heterotrophic Wastewater Biofilm. <i>Environmental Science & Technology</i> , 2019, 53, 9148-9159.	4.6	10
38	Impact of the filamentous fungi overgrowth on the aerobic granular sludge process. <i>Bioresource Technology Reports</i> , 2019, 7, 100272.	1.5	10
39	Single reactor nitrification-denitrification for high strength digested biosolid thickening lagoon supernatant treatment. <i>Biochemical Engineering Journal</i> , 2020, 160, 107630.	1.8	10
40	Roles of granular activated carbon (GAC) and operational factors on active microbiome development in anaerobic reactors. <i>Bioresource Technology</i> , 2022, 343, 126104.	4.8	10
41	Germination and growth of horticultural crops irrigated with reclaimed water after biological treatment and ozonation. <i>Journal of Cleaner Production</i> , 2022, 336, 130173.	4.6	9
42	Two-stage hybrid microalgal electroactive wetland-coupled anaerobic digestion for swine wastewater treatment in South China: Full-scale verification. <i>Science of the Total Environment</i> , 2022, 820, 153312.	3.9	8
43	Plant-wide systems microbiology for the wastewater industry. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1687-1706.	1.2	7
44	Thermophilic co-digestion of blackwater and organic kitchen waste: Impacts of granular activated carbon and different mixing ratios. <i>Waste Management</i> , 2021, 131, 453-461.	3.7	7
45	Analytical Methods for Pesticides and Herbicides. <i>Water Environment Research</i> , 2018, 90, 1323-1347.	1.3	6
46	Composition of heterotrophic specialized sub-guilds defined by a positive RNA and polyhydroxyalkanoate correlation in activated sludge. <i>Water Research</i> , 2018, 144, 561-571.	5.3	6
47	Viability of a Single-Stage Unsaturated-Saturated Granular Activated Carbon Biofilter for Greywater Treatment. <i>Sustainability</i> , 2020, 12, 8847.	1.6	5
48	Evaluation of influent microbial immigration to activated sludge is affected by different-sized community segregation. <i>Npj Clean Water</i> , 2021, 4, .	3.1	4
49	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. <i>Journal of Hazardous Materials</i> , 2021, 408, 124930.	6.5	4
50	A new non-steady-state mass balance model for quantifying microbiome responses to disturbances in wastewater bioreactors. <i>Journal of Environmental Management</i> , 2021, 296, 113370.	3.8	4
51	Physico-Chemical Processes. <i>Water Environment Research</i> , 2018, 90, 1392-1438.	1.3	3
52	Stimulating Anaerobic Degradation of Butyrate via <i>Syntrophomonas wolfei</i> and <i>Geobacter sulfurreducens</i> : Characteristics and Mechanism. <i>Microbial Ecology</i> , 2023, 85, 535-543.	1.4	3
53	Study on the process of simultaneous desalting and boron removal from seawater. <i>Journal of Physics: Conference Series</i> , 2021, 2009, 012044.	0.3	1
54	Adsorption characteristics of carbon nanotubes on low concentration erythromycin in water. <i>Journal of Physics: Conference Series</i> , 2021, 2009, 012005.	0.3	1

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55	Impact of pH and removed filtrate on E. coli regrowth and microbial community during storage of electro-dewatered biosolids. <i>Science of the Total Environment</i> , 2022, 814, 152544.	3.9	1
56	Metagenomic Insights into Direct Interspecies Electron Transfer and Quorum Sensing in Blackwater Anaerobic Digestion Reactors Supplemented with Granular Activated Carbon. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0