

Huiping Zeng

List of Publications by Year in descending order

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57
papers

1,526
citations

279701

23
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all docs

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docs citations

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times ranked

1376
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the bioenergetics of anaerobic microbial metabolism close to the thermodynamic limits and its implications for digestion applications. <i>Bioresource Technology</i> , 2018, 247, 1095-1106.	4.8	133
2	Effective start-up biofiltration method for Fe, Mn, and ammonia removal and bacterial community analysis. <i>Bioresource Technology</i> , 2015, 176, 149-155.	4.8	88
3	Microbial characteristics and nitrogen removal of simultaneous partial nitrification, anammox and denitrification (SNAD) process treating low C/N ratio sewage. <i>Bioresource Technology</i> , 2014, 169, 103-109.	4.8	81
4	Arsenic(V) removal by granular adsorbents made from water treatment residuals materials and chitosan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124036.	2.3	71
5	Magnetic biochar synthesized with waterworks sludge and sewage sludge and its potential for methylene blue removal. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105951.	3.3	45
6	Biodiversity and quantification of functional bacteria in completely autotrophic nitrogen-removal over nitrite (CANON) process. <i>Bioresource Technology</i> , 2012, 118, 399-406.	4.8	41
7	Efficient removal of As(V) from aqueous media by magnetic nanoparticles prepared with Iron-containing water treatment residuals. <i>Scientific Reports</i> , 2020, 10, 9335.	1.6	39
8	Stability and nitrite-oxidizing bacteria community structure in different high-rate CANON reactors. <i>Bioresource Technology</i> , 2015, 175, 189-194.	4.8	37
9	Startup and stable operation of advanced continuous flow reactor and the changes of microbial communities in aerobic granular sludge. <i>Chemosphere</i> , 2020, 243, 125434.	4.2	36
10	Characteristics and formation mechanism of hollow Anammox granular sludge in low-strength ammonia sewage treatment. <i>Chemical Engineering Journal</i> , 2021, 421, 127766.	6.6	36
11	As(V) adsorption by a novel core-shell magnetic nanoparticles prepared with Iron-containing water treatment residuals. <i>Science of the Total Environment</i> , 2021, 753, 142002.	3.9	35
12	Rapid start-up and microbial characteristics of partial nitrification granular sludge treating domestic sewage at room temperature. <i>Bioresource Technology</i> , 2015, 196, 741-745.	4.8	34
13	Nitrate removal by organotrophic anaerobic ammonium oxidizing bacteria with C2/C3 fatty acid in upflow anaerobic sludge blanket reactors. <i>Bioresource Technology</i> , 2015, 193, 408-414.	4.8	34
14	Startup and long term operation of enhanced biological phosphorus removal in continuous-flow reactor with granules. <i>Bioresource Technology</i> , 2016, 212, 92-99.	4.8	32
15	Performance and microbial community of completely autotrophic nitrogen removal over nitrite (CANON) process in two membrane bioreactors (MBR) fed with different substrate levels. <i>Bioresource Technology</i> , 2014, 152, 185-191.	4.8	31
16	Aerobic granular sludge operation and nutrients removal mechanism in a novel configuration reactor combined sequencing batch reactor and continuous-flow reactor. <i>Bioresource Technology</i> , 2019, 292, 122024.	4.8	31
17	Autotrophic nitrogen conversion process and microbial population distribution in biofilter that simultaneously removes Fe, Mn and ammonia from groundwater. <i>International Biodeterioration and Biodegradation</i> , 2018, 135, 53-61.	1.9	30
18	Long term operation of continuous-flow system with enhanced biological phosphorus removal granules at different COD loading. <i>Bioresource Technology</i> , 2016, 216, 761-767.	4.8	27

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19	Operational parameters required for the start-up process of a biofilter to remove Fe, Mn, and NH ₃ -N from low-temperature groundwater. <i>Desalination and Water Treatment</i> , 2016, 57, 3588-3596.	1.0	27
20	Impact of Mn and ammonia on nitrogen conversion in biofilter coupling nitrification and ANAMMOX that simultaneously removes Fe, Mn and ammonia. <i>Science of the Total Environment</i> , 2019, 648, 955-961.	3.9	27
21	The nitrogen removal of autotrophic and heterotrophic bacteria in aerobic granular reactors with different feast/famine ratio. <i>Bioresource Technology</i> , 2019, 272, 370-378.	4.8	27
22	Autotrophic nitrogen removal process in a potable water treatment biofilter that simultaneously removes Mn and NH ₄ ⁺ -N. <i>Bioresource Technology</i> , 2014, 172, 226-231.	4.8	25
23	As(V) Removal from Water Using a Novel Magnetic Particle Adsorbent Prepared with Iron-Containing Water Treatment Residuals. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14734-14742.	3.2	25
24	Resuscitation of starved anaerobic ammonium oxidation sludge system: Impacts of repeated short-term starvation. <i>Bioresource Technology</i> , 2018, 263, 458-466.	4.8	25
25	Iron-loaded magnetic alginate-chitosan double-gel interpenetrated porous beads for phosphate removal from water: Preparation, adsorption behavior and pH stability. <i>Reactive and Functional Polymers</i> , 2022, 177, 105328.	2.0	25
26	Performance of a completely autotrophic nitrogen removal over nitrite process for treating wastewater with different substrates at ambient temperature. <i>Journal of Environmental Sciences</i> , 2013, 25, 688-697.	3.2	24
27	Enhanced biological phosphorus removal using granules in continuous-flow reactor. <i>Chemical Engineering Journal</i> , 2016, 298, 107-116.	6.6	24
28	Optimization and regeneration of chitosan-alginate hybrid adsorbent embedding iron-manganese sludge for arsenic removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125500.	2.3	24
29	Preparation of manganese sludge strengthened chitosan-alginate hybrid adsorbent and its potential for As(III) removal. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 1222-1231.	3.6	24
30	Preparation and Characterization of Sludge-Based Magnetic Biochar by Pyrolysis for Methylene Blue Removal. <i>Nanomaterials</i> , 2021, 11, 2473.	1.9	24
31	Distribution and genetic diversity of functional microorganisms in different CANON reactors. <i>Bioresource Technology</i> , 2012, 123, 574-580.	4.8	23
32	Effect of sludge retention time on continuous-flow system with enhanced biological phosphorus removal granules at different COD loading. <i>Bioresource Technology</i> , 2016, 219, 14-20.	4.8	22
33	Start-Up of a Biofilter in a Full-Scale Groundwater Treatment Plant for Iron and Manganese Removal. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 698.	1.2	20
34	Start-up and performance of partial nitrification process using short-term starvation. <i>Bioresource Technology</i> , 2019, 276, 190-198.	4.8	20
35	Insight into enrichment of anaerobic ammonium oxidation bacteria in anammox granulation under decreasing temperature and no strict anaerobic condition: Comparison between continuous and sequencing batch feeding strategies. <i>Science of the Total Environment</i> , 2021, 787, 147601.	3.9	20
36	Fe ₃ O ₄ @C particles synthesized with iron-containing water treatment residuals and its potential for methylene blue removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3970-3980.	1.6	17

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37	Effect of aeration modes on simultaneous nitrogen and phosphorus removal and microbial community in a continuous flow reactor with granules. <i>Bioresource Technology</i> , 2019, 294, 122154.	4.8	17
38	Adsorption of As(V) by magnetic alginate-chitosan porous beads based on iron sludge. <i>Journal of Cleaner Production</i> , 2022, 359, 132117.	4.6	17
39	Characterization and Arsenic Adsorption Behaviors of Water Treatment Residuals from Waterworks for Iron and Manganese Removal. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4912.	1.2	16
40	Operational mode affects the role of organic matter in granular anammox process. <i>Bioresource Technology</i> , 2021, 336, 125337.	4.8	16
41	Long-term operation and autotrophic nitrogen conversion process analysis in a biofilter that simultaneously removes Fe, Mn and ammonia from low-temperature groundwater. <i>Chemosphere</i> , 2019, 222, 407-414.	4.2	15
42	Preparation of adsorbent based on water treatment residuals and chitosan by homogeneous method with freeze-drying and its As(V) removal performance. <i>International Journal of Biological Macromolecules</i> , 2021, 184, 313-324.	3.6	15
43	Nitrogen removal and microbial characteristics in CANON biofilters fed with different ammonia levels. <i>Bioresource Technology</i> , 2014, 171, 168-174.	4.8	14
44	Performance and operational strategy of simultaneous nitrification, denitrification, and phosphorus removal system under the condition of low organic loading rate in wet weather. <i>Chemosphere</i> , 2021, 270, 129464.	4.2	14
45	Start-up, influence factors, and the microbial characteristics of partial nitrification in membrane bioreactor. <i>Desalination and Water Treatment</i> , 2015, 54, 581-589.	1.0	12
46	Simultaneous removal of iron, manganese and ammonia from groundwater: upgrading of waterworks in northeast China. , 0, 175, 196-204.		12
47	Effect of different operational modes on the performance of granular sludge in continuous-flow systems and the successions of microbial communities. <i>Bioresource Technology</i> , 2020, 299, 122573.	4.8	11
48	Column studies on the adsorption of As(V) by granular chitosan adsorbent prepared with backwashing iron-containing sludge. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127247.	2.3	11
49	Enhancing 2,6-dichlorophenol degradation and nitrate removal in the nano-zero-valent iron (nZVI) solid-phase denitrification system. <i>Chemosphere</i> , 2022, 287, 132249.	4.2	11
50	Performance and influence factors of completely autotrophic nitrogen removal over nitrite (CANON) process in a biofilter packed with volcanic rocks. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 946-952.	1.2	10
51	Optimized hydraulic retention time for phosphorus and COD removal from synthetic domestic sewage with granules in a continuous-flow reactor. <i>Bioresource Technology</i> , 2016, 216, 1083-1087.	4.8	10
52	Fast start-up of anammox process with mixed activated sludge and settling option. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 3088-3095.	1.2	10
53	Preparation of Fe ₃ O ₄ @C with water treatment residuals and its potential in the magnetic coagulation process. <i>Journal of Cleaner Production</i> , 2022, 362, 132327.	4.6	9
54	Removal of As(V) by a core-shell magnetic nanoparticles synthesized with iron-containing water treatment residuals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127074.	2.3	8

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55	Analysis of Microbial Population Dynamics in a Partial Nitrifying SBR at Ambient Temperature. <i>Current Microbiology</i> , 2013, 66, 614-620.	1.0	5
56	Formation and performance of partial nitrification granular sludge treating domestic sewage. <i>Desalination and Water Treatment</i> , 2016, 57, 3430-3439.	1.0	5
57	Risk Assessment of the Water Resources Carrying Capacity: A Case Study in North China. <i>Journal of the American Water Resources Association</i> , 2022, 58, 1240-1254.	1.0	4