Jin Rencun

List of Publications by Year
in descending order

111 papers	4,925 citations	87723 38 h-index	114278 63 g-index
114 all docs	114 docs citations	114 times ranked	2142 citing authors

#	Article	IF	Citations
1	Inhibition of wastewater pollutants on the anammox process: A review. Science of the Total Environment, 2022, 803, 150009.	3.9	60
2	Comprehensive evaluation of the long-term effect of Cu2+ on denitrifying granular sludge and feasibility of in situ recovery by phosphate. Journal of Hazardous Materials, 2022, 422, 126901.	6.5	11
3	How anammox process resists the multi-antibiotic stress: Resistance gene accumulation and microbial community evolution. Science of the Total Environment, 2022, 807, 150784.	3.9	23
4	A review on characterizing the metabolite property of anammox sludge by spectroscopy. Science of the Total Environment, 2022, 817, 153065.	3.9	7
5	A review of heavy metals inhibitory effects in the process of anaerobic ammonium oxidation. Journal of Hazardous Materials, 2022, 429, 128362.	6.5	24
6	Anammox sludge preservation: Preservative agents, temperature and substrate. Journal of Environmental Management, 2022, 311, 114860.	3.8	8
7	Molecular spectroscopy and docking simulation revealed the binding mechanism of phenol onto anammox sludge extracellular polymeric substances. Science of the Total Environment, 2022, 830, 154733.	3.9	3
8	Removal of extracellular deoxyribonucleic acid increases the permeability and mass transfer of anammox granular sludge with different sizes. Chemosphere, 2022, 302, 134898.	4.2	12
9	Role and application of quorum sensing in anaerobic ammonium oxidation (anammox) process: A review. Critical Reviews in Environmental Science and Technology, 2021, 51, 626-648.	6.6	45
10	Build the expressway for the salt-tolerant anammox process: Acclimation strategy tells the story. Journal of Cleaner Production, 2021, 278, 123921.	4.6	32
11	Linear anionic surfactant (SDBS) destabilized anammox process through sludge disaggregation and metabolic inhibition. Journal of Hazardous Materials, 2021, 403, 123641.	6.5	11
12	Evolution of microbial community and antibiotic resistance genes in anammox process stressed by oxytetracycline and copper. Bioresource Technology, 2021, 319, 124106.	4.8	22
13	Response of anammox granules to the simultaneous exposure to macrolide and aminoglycoside antibiotics: Linking performance to mechanism. Journal of Environmental Management, 2021, 286, 112267.	3.8	18
14	Multiple electron acceptor-mediated sulfur autotrophic denitrification: Nitrogen source competition, long-term performance and microbial community evolution. Bioresource Technology, 2021, 329, 124918.	4.8	34
15	Comparison of the dynamic responses of different anammox granules to copper nanoparticle stress: Antibiotic exposure history made a difference. Bioresource Technology, 2021, 333, 125186.	4.8	13
16	Microbial and genetic responses of anammox process to the successive exposure of different antibiotics. Chemical Engineering Journal, 2021, 420, 127576.	6.6	9
17	How anammox responds to the emerging contaminants: Status and mechanisms. Journal of Environmental Management, 2021, 293, 112906.	3.8	22
18	Resistance genes and extracellular proteins relieve antibiotic stress on the anammox process. Water Research, 2021, 202, 117453.	5.3	56

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19	Extracellular polymeric substances excreted by anammox sludge act as a barrier for As(III) invasion: Binding property and interaction mechanism. Chemosphere, 2021, 278, 130414.	4.2	18
20	Deciphering the response of anammox process to heavy metal and antibiotic stress: Arsenic enhances the permeability of extracellular polymeric substance and aggravates the inhibition of sulfamethoxazole. Chemical Engineering Journal, 2021, 426, 130815.	6.6	34
21	Molecular Insight into the Binding Property and Mechanism of Sulfamethoxazole to Extracellular Proteins of Anammox Sludge. Environmental Science & Technology, 2021, 55, 16627-16635.	4.6	34
22	Whether glycine betaine improves the thermotolerance of mesophilic anammox consortia. Environmental Technology (United Kingdom), 2020, 41, 3309-3317.	1.2	0
23	Polyphenol-metal network derived nanocomposite to catalyze peroxymonosulfate decomposition for dye degradation. Chemosphere, 2020, 244, 125577.	4.2	13
24	Factors influencing Candidatus Microthrix parvicella growth and specific filamentous bulking control: A review. Chemosphere, 2020, 244, 125371.	4.2	39
25	Advances and challenges of sulfur-driven autotrophic denitrification (SDAD) for nitrogen removal. Chinese Chemical Letters, 2020, 31, 2567-2574.	4.8	48
26	Anammox Granules Acclimatized to Mainstream Conditions Can Achieve a Volumetric Nitrogen Removal Rate Comparable to Sidestream Systems. Environmental Science & Technology, 2020, 54, 12959-12966.	4.6	39
27	Long-term effects of Fe3O4 NPs on the granule-based anaerobic ammonium oxidation process: Performance, sludge characteristics and microbial community. Journal of Hazardous Materials, 2020, 398, 122965.	6.5	27
28	A novel strategy for anammox consortia preservation: Transformation into anoxic sulfide oxidation consortia. Science of the Total Environment, 2020, 723, 138094.	3.9	8
29	Insight into the microbial and genetic responses of anammox granules to spiramycin: Comparison between two different dosing strategies. Journal of Cleaner Production, 2020, 258, 120993.	4.6	14
30	Deciphering the microbial community and functional genes response of anammox sludge to sulfide stress. Bioresource Technology, 2020, 302, 122885.	4.8	48
31	What's the variation in anammox reactor performance after single and joint temperature based shocks?. Science of the Total Environment, 2020, 713, 136609.	3.9	10
32	Sulfidation attenuates the adverse impacts of metallic nanoparticles on anammox from the perspective of chronic exposure. Environmental Science: Nano, 2020, 7, 1681-1691.	2.2	5
33	Advances and challenges of mainstream nitrogen removal from municipal wastewater with anammoxâ€based processes. Water Environment Research, 2020, 92, 1899-1909.	1.3	33
34	Resistance of anammox granular sludge to copper nanoparticles and oxytetracycline and restoration of performance. Bioresource Technology, 2020, 307, 123264.	4.8	27
35	A spectra metrology insight into the binding characteristics of Cu2+ onto anammox extracellular polymeric substances. Chemical Engineering Journal, 2020, 393, 124800.	6.6	45
36	Adaption and restoration of anammox biomass to Cd(II) stress: Performance, extracellular polymeric substance and microbial community. Bioresource Technology, 2019, 290, 121766.	4.8	24

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37	Long-term effects of copper nanoparticles on granule-based denitrification systems: Performance, microbial communities, functional genes and sludge properties. Bioresource Technology, 2019, 289, 121707.	4.8	27
38	Microbial community evolution and fate of antibiotic resistance genes in anammox process under oxytetracycline and sulfamethoxazole stresses. Bioresource Technology, 2019, 293, 122096.	4.8	61
39	The performance and microbial community in response to MnO2 nanoparticles in anammox granular sludge. Chemosphere, 2019, 233, 625-632.	4.2	23
40	Merely inoculating anammox sludge to achieve the start-up of anammox and autotrophic desulfurization-denitrification process. Science of the Total Environment, 2019, 682, 374-381.	3.9	25
41	Expression of the nirS, hzsA, and hdh genes and antibiotic resistance genes in response to recovery of anammox process inhibited by oxytetracycline. Science of the Total Environment, 2019, 681, 56-65.	3.9	41
42	Effects of ZnO nanoparticles on high-rate denitrifying granular sludge and the role of phosphate in toxicity attenuation. Environmental Pollution, 2019, 251, 166-174.	3.7	20
43	Co-inhibition of salinity and Ni(II) in the anammox-UASB reactor. Science of the Total Environment, 2019, 669, 70-82.	3.9	44
44	Effect of divalent nickel on the anammox process in a UASB reactor. Chemosphere, 2019, 226, 934-944.	4.2	20
45	Deciphering the evolution characteristics of extracellular microbial products from autotrophic and mixotrophic anammox consortia in response to nitrogen loading variations. Environment International, 2019, 124, 501-510.	4.8	65
46	Evaluating the effects of Zn(II) on high-rate biogranule-based denitrification: Performance, microbial community and sludge characteristics. Bioresource Technology, 2019, 279, 393-397.	4.8	20
47	Recent advances regarding the impacts of engineered nanomaterials on the anaerobic ammonium oxidation process: performances and mechanisms. Environmental Science: Nano, 2019, 6, 3501-3512.	2.2	24
48	The revolution of performance, sludge characteristics and microbial community of anammox biogranules under long-term NiO NPs exposure. Science of the Total Environment, 2019, 649, 440-447.	3.9	49
49	Anammox granule as new inoculum for start-up of anaerobic sulfide oxidation (ASO) process and its reverse start-up. Chemosphere, 2019, 217, 279-288.	4.2	19
50	Achieving completely anaerobic ammonium removal over nitrite (CAARON) in one single UASB reactor: Synchronous and asynchronous feeding regimes of organic carbon make a difference. Science of the Total Environment, 2019, 653, 342-350.	3.9	31
51	Insight into the short- and long-term effects of quinoline on anammox granules: Inhibition and acclimatization. Science of the Total Environment, 2019, 651, 1294-1301.	3.9	17
52	Anammox granules show strong resistance to engineered silver nanoparticles during long-term exposure. Bioresource Technology, 2018, 259, 10-17.	4.8	38
53	Inhibitory effects of heavy metals and antibiotics on nitrifying bacterial activities in mature partial nitritation. Chemosphere, 2018, 200, 437-445.	4.2	37
54	Short-term effects of nanoscale Zero-Valent Iron (nZVI) and hydraulic shock during high-rate anammox wastewater treatment. Journal of Environmental Management, 2018, 215, 248-257.	3.8	19

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55	Roles of MnO2 on performance, sludge characteristics and microbial community in anammox system. Science of the Total Environment, 2018, 633, 848-856.	3.9	24
56	Effect of chromium on granule-based anammox processes. Bioresource Technology, 2018, 260, 1-8.	4.8	34
57	Enhanced effects of maghemite nanoparticles on the flocculent sludge wasted from a high-rate anammox reactor: Performance, microbial community and sludge characteristics. Bioresource Technology, 2018, 250, 265-272.	4.8	28
58	Transient disturbance of engineered ZnO nanoparticles enhances the resistance and resilience of anammox process in wastewater treatment. Science of the Total Environment, 2018, 622-623, 402-409.	3.9	64
59	Discrepant effects of metal and metal oxide nanoparticles on anammox sludge properties: A comparison between Cu and CuO nanoparticles. Bioresource Technology, 2018, 266, 507-515.	4.8	25
60	Evaluating the effects of metal oxide nanoparticles (TiO2, Al2O3, SiO2 and CeO2) on anammox process: Performance, microflora and sludge properties. Bioresource Technology, 2018, 266, 11-18.	4.8	25
61	Increased salinity improves the thermotolerance of mesophilic anammox consortia. Science of the Total Environment, 2018, 644, 710-716.	3.9	20
62	Insights into the effects of bio-augmentation on the granule-based anammox process under continuous oxytetracycline stress: Performance and microflora structure. Chemical Engineering Journal, 2018, 348, 503-513.	6.6	47
63	Inhibitory effects of sulfamethoxazole on denitrifying granule properties: Short- and long-term tests. Bioresource Technology, 2017, 233, 391-398.	4.8	29
64	Effects of inorganic phosphate on a high-rate anammox system: Performance and microbial community. Ecological Engineering, 2017, 101, 201-210.	1.6	30
65	Summary of the preservation techniques and the evolution of the anammox bacteria characteristics during preservation. Applied Microbiology and Biotechnology, 2017, 101, 4349-4362.	1.7	29
66	The short- and long-term effects of Mn2+ on biogranule-based anaerobic ammonium oxidation (anammox). Bioresource Technology, 2017, 241, 750-759.	4.8	30
67	Susceptibility, resistance and resilience of anammox biomass to nanoscale copper stress. Bioresource Technology, 2017, 241, 35-43.	4.8	29
68	Short-term impacts of Cu, CuO, ZnO and Ag nanoparticles (NPs) on anammox sludge: CuNPs make a difference. Bioresource Technology, 2017, 235, 281-291.	4.8	106
69	Combined impacts of nanoparticles on anammox granules and the roles of EDTA and S 2â˜ in attenuation. Journal of Hazardous Materials, 2017, 334, 49-58.	6.5	59
70	Unraveling the impact of nanoscale zero-valent iron on the nitrogen removal performance and microbial community of anammox sludge. Bioresource Technology, 2017, 243, 883-892.	4.8	47
71	Mass transfer characteristics, rheological behavior and fractal dimension of anammox granules: The roles of upflow velocity and temperature. Bioresource Technology, 2017, 244, 117-124.	4.8	37
72	Long-term effects of oxytetracycline (OTC) on the granule-based anammox: Process performance and occurrence of antibiotic resistance genes. Biochemical Engineering Journal, 2017, 127, 110-118.	1.8	73

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73	Effects of thiocyanate on granule-based anammox process and implications for regulation. Journal of Hazardous Materials, 2017, 321, 81-91.	6.5	34
74	Towards simultaneously removing nitrogen and sulfur by a novel process: Anammox and autotrophic desulfurizationâ€“denitrification (AADD). Chemical Engineering Journal, 2016, 297, 207-216.	6.6	82
75	Successful start-up of the anammox process: Influence of the seeding strategy on performance and granule properties. Bioresource Technology, 2016, 211, 594-602.	4.8	112
76	Inhibition of the partial nitritation by roxithromycin and Cu(II). Bioresource Technology, 2016, 214, 253-258.	4.8	34
77	Insight into the short- and long-term effects of inorganic phosphate on anammox granule property. Bioresource Technology, 2016, 208, 161-169.	4.8	61
78	Long-term effects of heavy metals and antibiotics on granule-based anammox process: granule property and performance evolution. Applied Microbiology and Biotechnology, 2016, 100, 2417-2427.	1.7	45
79	Insight into the short- and long-term effects of Cu(II) on denitrifying biogranules. Journal of Hazardous Materials, 2016, 304, 448-456.	6.5	12
80	Evaluation of the inhibitory effects of heavy metals on anammox activity: A batch test study. Bioresource Technology, 2016, 200, 208-216.	4.8	87
81	Roles of EDTA washing and Ca 2+ regulation on the restoration of anammox granules inhibited by copper(II). Journal of Hazardous Materials, 2016, 301, 92-99.	6.5	41
82	A novel strategy for accelerating the recovery of an anammox reactor inhibited by copper(II): EDTA washing combined with biostimulation via low-intensity ultrasound. Chemical Engineering Journal, 2015, 279, 912-920.	6.6	39
83	The influences of temperature, salt and calcium concentration on the performance of anaerobic ammonium oxidation (anammox) process. Chemical Engineering Journal, 2015, 265, 58-66.	6.6	56
84	Variation in the performance and sludge characteristics of anaerobic ammonium oxidation inhibited by copper. Separation and Purification Technology, 2015, 142, 108-115.	3.9	38
85	Analyzing the revolution of anaerobic ammonium oxidation (anammox) performance and sludge characteristics under zinc inhibition. Applied Microbiology and Biotechnology, 2015, 99, 3221-3232.	1.7	35
86	Anaerobic ammonium-oxidizing bacteria gain antibiotic resistance during long-term acclimatization. Bioresource Technology, 2015, 192, 756-764.	4.8	68
87	Start-up of granule-based denitrifying reactors with multiple magnesium supplementation strategies. Journal of Environmental Management, 2015, 155, 204-211.	3.8	23
88	The Application of Low-Intensity Ultrasound Irradiation in Biological Wastewater Treatment: A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 2728-2761.	6.6	17
89	Behavior and fate of copper ions in an anammox granular sludge reactor and strategies for remediation. Journal of Hazardous Materials, 2015, 300, 838-846.	6.5	66
90	Enhancement of anammox performance by Cu(II), Ni(II) and Fe(III) supplementation. Chemosphere, 2014, 117, 610-616.	4.2	83

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91	The robustness of ANAMMOX process under the transient oxytetracycline (OTC) shock. Bioresource Technology, 2014, 153, 39-46.	4.8	36
92	Mechanisms of ultrasound irradiation for enhancing the ANAMMOX process. Separation and Purification Technology, 2014, 130, 141-146.	3.9	9
93	Start-up and stable operation of partial nitritation prior to ANAMMOX in an internal-loop airlift reactor. Separation and Purification Technology, 2013, 120, 458-466.	3.9	16
94	Estimating the recovery of ANAMMOX performance from inhibition by copper (II) and oxytetracycline (OTC). Separation and Purification Technology, 2013, 113, 90-103.	3.9	28
95	The effect of sulfide inhibition on the ANAMMOX process. Water Research, 2013, 47, 1459-1469.	5.3	208
96	The effect of Cu(II) stress on the activity, performance and recovery on the Anaerobic Ammonium-Oxidizing (Anammox) process. Chemical Engineering Journal, 2013, 226, 39-45.	6.6	75
97	Enhancement of ANAMMOX activity by low-intensity ultrasound irradiation at ambient temperature. Bioresource Technology, 2013, 142, 693-696.	4.8	25
98	Performance of an Anammox UASB reactor at high load and low ambient temperature. Chemical Engineering Journal, 2013, 232, 17-25.	6.6	84
99	Changes in the nitrogen removal performance and the properties of granular sludge in an Anammox system under oxytetracycline (OTC) stress. Bioresource Technology, 2013, 129, 65-71.	4.8	78
100	Performance and stability of the partial nitrification process for nitrogen removal from monosodium glutamate wastewater. Separation and Purification Technology, 2013, 103, 195-202.	3.9	23
101	The ANAMMOX reactor under transient-state conditions: Process stability with fluctuations of the nitrogen concentration, inflow rate, pH and sodium chloride addition. Bioresource Technology, 2012, 119, 166-173.	4.8	19
102	The inhibition of the Anammox process: A review. Chemical Engineering Journal, 2012, 197, 67-79.	6.6	692
103	Influence of effluent recirculation on the performance of Anammox process. Chemical Engineering Journal, 2012, 200-202, 176-185.	6.6	43
104	The joint inhibitory effects of phenol, copper (II), oxytetracycline (OTC) and sulfide on Anammox activity. Bioresource Technology, 2012, 126, 187-192.	4.8	71
105	Impacts of transient salinity shock loads on Anammox process performance. Bioresource Technology, 2012, 112, 124-130.	4.8	150
106	Enrichment of anammox bacteria from three sludge sources for the startup of monosodium glutamate industrial wastewater treatment system. Journal of Hazardous Materials, 2012, 199-200, 193-199.	6.5	73
107	Anammox in a UASB reactor treating saline wastewater. Chemical Engineering Research and Design, 2011, 89, 342-348.	2.7	59
108	Hydrodynamic characteristics of airlift nitrifying reactor using carrier-induced granular sludge. Journal of Hazardous Materials, 2008, 157, 367-373.	6.5	15

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109	Quantitative comparison of stability of ANAMMOX process in different reactor configurations. Bioresource Technology, 2008, 99, 1603-1609.	4.8	45
110	Osmotic stress on nitrification in an airlift bioreactor. Journal of Hazardous Materials, 2007, 146, 148-154.	6.5	48
111	Adding exogenous protein relieves the toxicity of nanoparticles to anammox granular sludge by adsorption and the formation of eco-coronas. Environmental Science: Nano, 0, , .	2.2	3