

Jin Rencun

List of Publications by Year in descending order

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papers

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citations

87723

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114
all docs

114
docs citations

114
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	The inhibition of the Anammox process: A review. <i>Chemical Engineering Journal</i> , 2012, 197, 67-79.	6.6	692
2	The effect of sulfide inhibition on the ANAMMOX process. <i>Water Research</i> , 2013, 47, 1459-1469.	5.3	208
3	Impacts of transient salinity shock loads on Anammox process performance. <i>Bioresource Technology</i> , 2012, 112, 124-130.	4.8	150
4	Successful start-up of the anammox process: Influence of the seeding strategy on performance and granule properties. <i>Bioresource Technology</i> , 2016, 211, 594-602.	4.8	112
5	Short-term impacts of Cu, CuO, ZnO and Ag nanoparticles (NPs) on anammox sludge: CuNPs make a difference. <i>Bioresource Technology</i> , 2017, 235, 281-291.	4.8	106
6	Evaluation of the inhibitory effects of heavy metals on anammox activity: A batch test study. <i>Bioresource Technology</i> , 2016, 200, 208-216.	4.8	87
7	Performance of an Anammox UASB reactor at high load and low ambient temperature. <i>Chemical Engineering Journal</i> , 2013, 232, 17-25.	6.6	84
8	Enhancement of anammox performance by Cu(II), Ni(II) and Fe(III) supplementation. <i>Chemosphere</i> , 2014, 117, 610-616.	4.2	83
9	Towards simultaneously removing nitrogen and sulfur by a novel process: Anammox and autotrophic desulfurization–denitrification (AADD). <i>Chemical Engineering Journal</i> , 2016, 297, 207-216.	6.6	82
10	Changes in the nitrogen removal performance and the properties of granular sludge in an Anammox system under oxytetracycline (OTC) stress. <i>Bioresource Technology</i> , 2013, 129, 65-71.	4.8	78
11	The effect of Cu(II) stress on the activity, performance and recovery on the Anaerobic Ammonium-Oxidizing (Anammox) process. <i>Chemical Engineering Journal</i> , 2013, 226, 39-45.	6.6	75
12	Enrichment of anammox bacteria from three sludge sources for the startup of monosodium glutamate industrial wastewater treatment system. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 193-199.	6.5	73
13	Long-term effects of oxytetracycline (OTC) on the granule-based anammox: Process performance and occurrence of antibiotic resistance genes. <i>Biochemical Engineering Journal</i> , 2017, 127, 110-118.	1.8	73
14	The joint inhibitory effects of phenol, copper (II), oxytetracycline (OTC) and sulfide on Anammox activity. <i>Bioresource Technology</i> , 2012, 126, 187-192.	4.8	71
15	Anaerobic ammonium-oxidizing bacteria gain antibiotic resistance during long-term acclimatization. <i>Bioresource Technology</i> , 2015, 192, 756-764.	4.8	68
16	Behavior and fate of copper ions in an anammox granular sludge reactor and strategies for remediation. <i>Journal of Hazardous Materials</i> , 2015, 300, 838-846.	6.5	66
17	Deciphering the evolution characteristics of extracellular microbial products from autotrophic and mixotrophic anammox consortia in response to nitrogen loading variations. <i>Environment International</i> , 2019, 124, 501-510.	4.8	65
18	Transient disturbance of engineered ZnO nanoparticles enhances the resistance and resilience of anammox process in wastewater treatment. <i>Science of the Total Environment</i> , 2018, 622-623, 402-409.	3.9	64

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19	Insight into the short- and long-term effects of inorganic phosphate on anammox granule property. <i>Bioresource Technology</i> , 2016, 208, 161-169.	4.8	61
20	Microbial community evolution and fate of antibiotic resistance genes in anammox process under oxytetracycline and sulfamethoxazole stresses. <i>Bioresource Technology</i> , 2019, 293, 122096.	4.8	61
21	Inhibition of wastewater pollutants on the anammox process: A review. <i>Science of the Total Environment</i> , 2022, 803, 150009.	3.9	60
22	Anammox in a UASB reactor treating saline wastewater. <i>Chemical Engineering Research and Design</i> , 2011, 89, 342-348.	2.7	59
23	Combined impacts of nanoparticles on anammox granules and the roles of EDTA and S ²⁻ in attenuation. <i>Journal of Hazardous Materials</i> , 2017, 334, 49-58.	6.5	59
24	The influences of temperature, salt and calcium concentration on the performance of anaerobic ammonium oxidation (anammox) process. <i>Chemical Engineering Journal</i> , 2015, 265, 58-66.	6.6	56
25	Resistance genes and extracellular proteins relieve antibiotic stress on the anammox process. <i>Water Research</i> , 2021, 202, 117453.	5.3	56
26	The revolution of performance, sludge characteristics and microbial community of anammox biogranules under long-term NiO NPs exposure. <i>Science of the Total Environment</i> , 2019, 649, 440-447.	3.9	49
27	Osmotic stress on nitrification in an airlift bioreactor. <i>Journal of Hazardous Materials</i> , 2007, 146, 148-154.	6.5	48
28	Advances and challenges of sulfur-driven autotrophic denitrification (SDAD) for nitrogen removal. <i>Chinese Chemical Letters</i> , 2020, 31, 2567-2574.	4.8	48
29	Deciphering the microbial community and functional genes response of anammox sludge to sulfide stress. <i>Bioresource Technology</i> , 2020, 302, 122885.	4.8	48
30	Unraveling the impact of nanoscale zero-valent iron on the nitrogen removal performance and microbial community of anammox sludge. <i>Bioresource Technology</i> , 2017, 243, 883-892.	4.8	47
31	Insights into the effects of bio-augmentation on the granule-based anammox process under continuous oxytetracycline stress: Performance and microflora structure. <i>Chemical Engineering Journal</i> , 2018, 348, 503-513.	6.6	47
32	Quantitative comparison of stability of ANAMMOX process in different reactor configurations. <i>Bioresource Technology</i> , 2008, 99, 1603-1609.	4.8	45
33	Long-term effects of heavy metals and antibiotics on granule-based anammox process: granule property and performance evolution. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 2417-2427.	1.7	45
34	Role and application of quorum sensing in anaerobic ammonium oxidation (anammox) process: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 626-648.	6.6	45
35	A spectra metrology insight into the binding characteristics of Cu ²⁺ onto anammox extracellular polymeric substances. <i>Chemical Engineering Journal</i> , 2020, 393, 124800.	6.6	45
36	Co-inhibition of salinity and Ni(II) in the anammox-UASB reactor. <i>Science of the Total Environment</i> , 2019, 669, 70-82.	3.9	44

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37	Influence of effluent recirculation on the performance of Anammox process. <i>Chemical Engineering Journal</i> , 2012, 200-202, 176-185.	6.6	43
38	Roles of EDTA washing and Ca ²⁺ regulation on the restoration of anammox granules inhibited by copper(II). <i>Journal of Hazardous Materials</i> , 2016, 301, 92-99.	6.5	41
39	Expression of the nirS, hzsA, and hdh genes and antibiotic resistance genes in response to recovery of anammox process inhibited by oxytetracycline. <i>Science of the Total Environment</i> , 2019, 681, 56-65.	3.9	41
40	A novel strategy for accelerating the recovery of an anammox reactor inhibited by copper(II): EDTA washing combined with biostimulation via low-intensity ultrasound. <i>Chemical Engineering Journal</i> , 2015, 279, 912-920.	6.6	39
41	Factors influencing <i>Candidatus Microthrix parvicella</i> growth and specific filamentous bulking control: A review. <i>Chemosphere</i> , 2020, 244, 125371.	4.2	39
42	Anammox Granules Acclimatized to Mainstream Conditions Can Achieve a Volumetric Nitrogen Removal Rate Comparable to Sidestream Systems. <i>Environmental Science & Technology</i> , 2020, 54, 12959-12966.	4.6	39
43	Variation in the performance and sludge characteristics of anaerobic ammonium oxidation inhibited by copper. <i>Separation and Purification Technology</i> , 2015, 142, 108-115.	3.9	38
44	Anammox granules show strong resistance to engineered silver nanoparticles during long-term exposure. <i>Bioresource Technology</i> , 2018, 259, 10-17.	4.8	38
45	Mass transfer characteristics, rheological behavior and fractal dimension of anammox granules: The roles of upflow velocity and temperature. <i>Bioresource Technology</i> , 2017, 244, 117-124.	4.8	37
46	Inhibitory effects of heavy metals and antibiotics on nitrifying bacterial activities in mature partial nitrification. <i>Chemosphere</i> , 2018, 200, 437-445.	4.2	37
47	The robustness of ANAMMOX process under the transient oxytetracycline (OTC) shock. <i>Bioresource Technology</i> , 2014, 153, 39-46.	4.8	36
48	Analyzing the revolution of anaerobic ammonium oxidation (anammox) performance and sludge characteristics under zinc inhibition. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3221-3232.	1.7	35
49	Inhibition of the partial nitrification by roxithromycin and Cu(II). <i>Bioresource Technology</i> , 2016, 214, 253-258.	4.8	34
50	Effects of thiocyanate on granule-based anammox process and implications for regulation. <i>Journal of Hazardous Materials</i> , 2017, 321, 81-91.	6.5	34
51	Effect of chromium on granule-based anammox processes. <i>Bioresource Technology</i> , 2018, 260, 1-8.	4.8	34
52	Multiple electron acceptor-mediated sulfur autotrophic denitrification: Nitrogen source competition, long-term performance and microbial community evolution. <i>Bioresource Technology</i> , 2021, 329, 124918.	4.8	34
53	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. <i>Chemical Engineering Journal</i> , 2021, 426, 130815.	6.6	34
54	Molecular Insight into the Binding Property and Mechanism of Sulfamethoxazole to Extracellular Proteins of Anammox Sludge. <i>Environmental Science & Technology</i> , 2021, 55, 16627-16635.	4.6	34

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55	Advances and challenges of mainstream nitrogen removal from municipal wastewater with anammox-based processes. <i>Water Environment Research</i> , 2020, 92, 1899-1909.	1.3	33
56	Build the expressway for the salt-tolerant anammox process: Acclimation strategy tells the story. <i>Journal of Cleaner Production</i> , 2021, 278, 123921.	4.6	32
57	Achieving completely anaerobic ammonium removal over nitrite (CAARON) in one single UASB reactor: Synchronous and asynchronous feeding regimes of organic carbon make a difference. <i>Science of the Total Environment</i> , 2019, 653, 342-350.	3.9	31
58	Effects of inorganic phosphate on a high-rate anammox system: Performance and microbial community. <i>Ecological Engineering</i> , 2017, 101, 201-210.	1.6	30
59	The short- and long-term effects of Mn ²⁺ on biogranule-based anaerobic ammonium oxidation (anammox). <i>Bioresource Technology</i> , 2017, 241, 750-759.	4.8	30
60	Inhibitory effects of sulfamethoxazole on denitrifying granule properties: Short- and long-term tests. <i>Bioresource Technology</i> , 2017, 233, 391-398.	4.8	29
61	Summary of the preservation techniques and the evolution of the anammox bacteria characteristics during preservation. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4349-4362.	1.7	29
62	Susceptibility, resistance and resilience of anammox biomass to nanoscale copper stress. <i>Bioresource Technology</i> , 2017, 241, 35-43.	4.8	29
63	Estimating the recovery of ANAMMOX performance from inhibition by copper (II) and oxytetracycline (OTC). <i>Separation and Purification Technology</i> , 2013, 113, 90-103.	3.9	28
64	Enhanced effects of maghemite nanoparticles on the flocculent sludge wasted from a high-rate anammox reactor: Performance, microbial community and sludge characteristics. <i>Bioresource Technology</i> , 2018, 250, 265-272.	4.8	28
65	Long-term effects of copper nanoparticles on granule-based denitrification systems: Performance, microbial communities, functional genes and sludge properties. <i>Bioresource Technology</i> , 2019, 289, 121707.	4.8	27
66	Long-term effects of Fe ₃ O ₄ NPs on the granule-based anaerobic ammonium oxidation process: Performance, sludge characteristics and microbial community. <i>Journal of Hazardous Materials</i> , 2020, 398, 122965.	6.5	27
67	Resistance of anammox granular sludge to copper nanoparticles and oxytetracycline and restoration of performance. <i>Bioresource Technology</i> , 2020, 307, 123264.	4.8	27
68	Enhancement of ANAMMOX activity by low-intensity ultrasound irradiation at ambient temperature. <i>Bioresource Technology</i> , 2013, 142, 693-696.	4.8	25
69	Discrepant effects of metal and metal oxide nanoparticles on anammox sludge properties: A comparison between Cu and CuO nanoparticles. <i>Bioresource Technology</i> , 2018, 266, 507-515.	4.8	25
70	Evaluating the effects of metal oxide nanoparticles (TiO ₂ , Al ₂ O ₃ , SiO ₂ and CeO ₂) on anammox process: Performance, microflora and sludge properties. <i>Bioresource Technology</i> , 2018, 266, 11-18.	4.8	25
71	Merely inoculating anammox sludge to achieve the start-up of anammox and autotrophic desulfurization-denitrification process. <i>Science of the Total Environment</i> , 2019, 682, 374-381.	3.9	25
72	Roles of MnO ₂ on performance, sludge characteristics and microbial community in anammox system. <i>Science of the Total Environment</i> , 2018, 633, 848-856.	3.9	24

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73	Adaption and restoration of anammox biomass to Cd(II) stress: Performance, extracellular polymeric substance and microbial community. <i>Bioresource Technology</i> , 2019, 290, 121766.	4.8	24
74	Recent advances regarding the impacts of engineered nanomaterials on the anaerobic ammonium oxidation process: performances and mechanisms. <i>Environmental Science: Nano</i> , 2019, 6, 3501-3512.	2.2	24
75	A review of heavy metals inhibitory effects in the process of anaerobic ammonium oxidation. <i>Journal of Hazardous Materials</i> , 2022, 429, 128362.	6.5	24
76	Performance and stability of the partial nitrification process for nitrogen removal from monosodium glutamate wastewater. <i>Separation and Purification Technology</i> , 2013, 103, 195-202.	3.9	23
77	Start-up of granule-based denitrifying reactors with multiple magnesium supplementation strategies. <i>Journal of Environmental Management</i> , 2015, 155, 204-211.	3.8	23
78	The performance and microbial community in response to MnO ₂ nanoparticles in anammox granular sludge. <i>Chemosphere</i> , 2019, 233, 625-632.	4.2	23
79	How anammox process resists the multi-antibiotic stress: Resistance gene accumulation and microbial community evolution. <i>Science of the Total Environment</i> , 2022, 807, 150784.	3.9	23
80	Evolution of microbial community and antibiotic resistance genes in anammox process stressed by oxytetracycline and copper. <i>Bioresource Technology</i> , 2021, 319, 124106.	4.8	22
81	How anammox responds to the emerging contaminants: Status and mechanisms. <i>Journal of Environmental Management</i> , 2021, 293, 112906.	3.8	22
82	Increased salinity improves the thermotolerance of mesophilic anammox consortia. <i>Science of the Total Environment</i> , 2018, 644, 710-716.	3.9	20
83	Effects of ZnO nanoparticles on high-rate denitrifying granular sludge and the role of phosphate in toxicity attenuation. <i>Environmental Pollution</i> , 2019, 251, 166-174.	3.7	20
84	Effect of divalent nickel on the anammox process in a UASB reactor. <i>Chemosphere</i> , 2019, 226, 934-944.	4.2	20
85	Evaluating the effects of Zn(II) on high-rate biogranule-based denitrification: Performance, microbial community and sludge characteristics. <i>Bioresource Technology</i> , 2019, 279, 393-397.	4.8	20
86	The ANAMMOX reactor under transient-state conditions: Process stability with fluctuations of the nitrogen concentration, inflow rate, pH and sodium chloride addition. <i>Bioresource Technology</i> , 2012, 119, 166-173.	4.8	19
87	Short-term effects of nanoscale Zero-Valent Iron (nZVI) and hydraulic shock during high-rate anammox wastewater treatment. <i>Journal of Environmental Management</i> , 2018, 215, 248-257.	3.8	19
88	Anammox granule as new inoculum for start-up of anaerobic sulfide oxidation (ASO) process and its reverse start-up. <i>Chemosphere</i> , 2019, 217, 279-288.	4.2	19
89	Response of anammox granules to the simultaneous exposure to macrolide and aminoglycoside antibiotics: Linking performance to mechanism. <i>Journal of Environmental Management</i> , 2021, 286, 112267.	3.8	18
90	Extracellular polymeric substances excreted by anammox sludge act as a barrier for As(III) invasion: Binding property and interaction mechanism. <i>Chemosphere</i> , 2021, 278, 130414.	4.2	18

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91	The Application of Low-Intensity Ultrasound Irradiation in Biological Wastewater Treatment: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 2728-2761.	6.6	17
92	Insight into the short- and long-term effects of quinoline on anammox granules: Inhibition and acclimatization. <i>Science of the Total Environment</i> , 2019, 651, 1294-1301.	3.9	17
93	Start-up and stable operation of partial nitrification prior to ANAMMOX in an internal-loop airlift reactor. <i>Separation and Purification Technology</i> , 2013, 120, 458-466.	3.9	16
94	Hydrodynamic characteristics of airlift nitrifying reactor using carrier-induced granular sludge. <i>Journal of Hazardous Materials</i> , 2008, 157, 367-373.	6.5	15
95	Insight into the microbial and genetic responses of anammox granules to spiramycin: Comparison between two different dosing strategies. <i>Journal of Cleaner Production</i> , 2020, 258, 120993.	4.6	14
96	Polyphenol-metal network derived nanocomposite to catalyze peroxydisulfate decomposition for dye degradation. <i>Chemosphere</i> , 2020, 244, 125577.	4.2	13
97	Comparison of the dynamic responses of different anammox granules to copper nanoparticle stress: Antibiotic exposure history made a difference. <i>Bioresource Technology</i> , 2021, 333, 125186.	4.8	13
98	Insight into the short- and long-term effects of Cu(II) on denitrifying biogranules. <i>Journal of Hazardous Materials</i> , 2016, 304, 448-456.	6.5	12
99	Removal of extracellular deoxyribonucleic acid increases the permeability and mass transfer of anammox granular sludge with different sizes. <i>Chemosphere</i> , 2022, 302, 134898.	4.2	12
100	Linear anionic surfactant (SDBS) destabilized anammox process through sludge disaggregation and metabolic inhibition. <i>Journal of Hazardous Materials</i> , 2021, 403, 123641.	6.5	11
101	Comprehensive evaluation of the long-term effect of Cu ²⁺ on denitrifying granular sludge and feasibility of in situ recovery by phosphate. <i>Journal of Hazardous Materials</i> , 2022, 422, 126901.	6.5	11
102	What's the variation in anammox reactor performance after single and joint temperature based shocks?. <i>Science of the Total Environment</i> , 2020, 713, 136609.	3.9	10
103	Mechanisms of ultrasound irradiation for enhancing the ANAMMOX process. <i>Separation and Purification Technology</i> , 2014, 130, 141-146.	3.9	9
104	Microbial and genetic responses of anammox process to the successive exposure of different antibiotics. <i>Chemical Engineering Journal</i> , 2021, 420, 127576.	6.6	9
105	A novel strategy for anammox consortia preservation: Transformation into anoxic sulfide oxidation consortia. <i>Science of the Total Environment</i> , 2020, 723, 138094.	3.9	8
106	Anammox sludge preservation: Preservative agents, temperature and substrate. <i>Journal of Environmental Management</i> , 2022, 311, 114860.	3.8	8
107	A review on characterizing the metabolite property of anammox sludge by spectroscopy. <i>Science of the Total Environment</i> , 2022, 817, 153065.	3.9	7
108	Sulfidation attenuates the adverse impacts of metallic nanoparticles on anammox from the perspective of chronic exposure. <i>Environmental Science: Nano</i> , 2020, 7, 1681-1691.	2.2	5

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109	Adding exogenous protein relieves the toxicity of nanoparticles to anammox granular sludge by adsorption and the formation of eco-coronas. <i>Environmental Science: Nano</i> , , .	2.2	3
110	Molecular spectroscopy and docking simulation revealed the binding mechanism of phenol onto anammox sludge extracellular polymeric substances. <i>Science of the Total Environment</i> , 2022, 830, 154733.	3.9	3
111	Whether glycine betaine improves the thermotolerance of mesophilic anammox consortia. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3309-3317.	1.2	0