

# Ren-Cun Jin

## List of Publications by Year in descending order

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73  
papers

3,399  
citations

136740

32  
h-index

149479

56  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1806  
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	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
4	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
5	Enhancement of anammox performance by Cu(II), Ni(II) and Fe(III) supplementation. <i>Chemosphere</i> , 2014, 117, 610-616.	4.2	83
6	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
7	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
8	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
9	Anaerobic ammonium-oxidizing bacteria gain antibiotic resistance during long-term acclimatization. <i>Bioresource Technology</i> , 2015, 192, 756-764.	4.8	68
10	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
11	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
12	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
13	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
14	The occurrence, maintenance, and proliferation of antibiotic resistance genes (ARGs) in the environment: influencing factors, mechanisms, and elimination strategies. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8261-8274.	1.7	61
15	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
16	Inhibition of wastewater pollutants on the anammox process: A review. <i>Science of the Total Environment</i> , 2022, 803, 150009.	3.9	60
17	Combined impacts of nanoparticles on anammox granules and the roles of EDTA and S <sup>2-</sup> in attenuation. <i>Journal of Hazardous Materials</i> , 2017, 334, 49-58.	6.5	59
18	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

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19	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
20	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
21	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
22	Anaerobic ammonium oxidation (anammox) under realistic seasonal temperature variations: Characteristics of biogranules and process performance. <i>Bioresource Technology</i> , 2015, 192, 765-773.	4.8	46
23	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
24	A spectra metrology insight into the binding characteristics of Cu <sup>2+</sup> onto anammox extracellular polymeric substances. <i>Chemical Engineering Journal</i> , 2020, 393, 124800.	6.6	45
25	Roles of EDTA washing and Ca <sup>2+</sup> regulation on the restoration of anammox granules inhibited by copper(II). <i>Journal of Hazardous Materials</i> , 2016, 301, 92-99.	6.5	41
26	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
27	Anammox Granules Acclimatized to Mainstream Conditions Can Achieve a Volumetric Nitrogen Removal Rate Comparable to Sidestream Systems. <i>Environmental Science &amp; Technology</i> , 2020, 54, 12959-12966.	4.6	39
28	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
29	Anammox granules show strong resistance to engineered silver nanoparticles during long-term exposure. <i>Bioresource Technology</i> , 2018, 259, 10-17.	4.8	38
30	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
31	The robustness of ANAMMOX process under the transient oxytetracycline (OTC) shock. <i>Bioresource Technology</i> , 2014, 153, 39-46.	4.8	36
32	Performance and robustness of an ANAMMOX anaerobic baffled reactor subjected to transient shock loads. <i>Bioresource Technology</i> , 2012, 114, 126-136.	4.8	35
33	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
34	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
35	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
36	Molecular Insight into the Binding Property and Mechanism of Sulfamethoxazole to Extracellular Proteins of Anammox Sludge. <i>Environmental Science &amp; Technology</i> , 2021, 55, 16627-16635.	4.6	34

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37	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
38	Decoding the interspecies interaction in anammox process with inorganic feeding through metagenomic and metatranscriptomic analysis. <i>Journal of Cleaner Production</i> , 2021, 288, 125691.	4.6	33
39	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
40	The short- and long-term effects of Mn <sup>2+</sup> on biogranule-based anaerobic ammonium oxidation (anammox). <i>Bioresource Technology</i> , 2017, 241, 750-759.	4.8	30
41	Susceptibility, resistance and resilience of anammox biomass to nanoscale copper stress. <i>Bioresource Technology</i> , 2017, 241, 35-43.	4.8	29
42	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
43	Long-term effects of Fe <sub>3</sub> O <sub>4</sub> 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
44	Resistance of anammox granular sludge to copper nanoparticles and oxytetracycline and restoration of performance. <i>Bioresource Technology</i> , 2020, 307, 123264.	4.8	27
45	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
46	Evaluating the effects of metal oxide nanoparticles (TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> and CeO <sub>2</sub> ) on anammox process: Performance, microflora and sludge properties. <i>Bioresource Technology</i> , 2018, 266, 11-18.	4.8	25
47	Roles of MnO <sub>2</sub> on performance, sludge characteristics and microbial community in anammox system. <i>Science of the Total Environment</i> , 2018, 633, 848-856.	3.9	24
48	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
49	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
50	The performance and microbial community in response to MnO <sub>2</sub> nanoparticles in anammox granular sludge. <i>Chemosphere</i> , 2019, 233, 625-632.	4.2	23
51	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
52	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
53	Insight into the evolution of microbial community and antibiotic resistance genes in anammox process induced by copper after recovery from oxytetracycline stress. <i>Bioresource Technology</i> , 2021, 330, 124945.	4.8	22
54	Effect of divalent nickel on the anammox process in a UASB reactor. <i>Chemosphere</i> , 2019, 226, 934-944.	4.2	20

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55	Determination of the response characteristics of anaerobic ammonium oxidation bioreactor disturbed by temperature change with the spectral fingerprint. <i>Science of the Total Environment</i> , 2020, 719, 137513.	3.9	20
56	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
57	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
58	Universal Method to Fabricate Transition Metal Single-Atom-Anchored Carbon with Excellent Oxygen Reduction Reaction Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 13534-13540.	4.0	14
59	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
60	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
61	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
62	Comprehensive evaluation of the long-term effect of Cu <sup>2+</sup> on denitrifying granular sludge and feasibility of in situ recovery by phosphate. <i>Journal of Hazardous Materials</i> , 2022, 422, 126901.	6.5	11
63	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
64	Intracellular and extracellular protective mechanisms of the anammox consortia against exogenous sulfadimidine. <i>Journal of Hazardous Materials</i> , 2022, 434, 128817.	6.5	10
65	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
66	Coagulation enhanced high-rate contact-stabilization process for pretreatment of municipal wastewater: Simultaneous organic capture and phosphorus removal. <i>Separation and Purification Technology</i> , 2022, 298, 121669.	3.9	9
67	Anammox sludge preservation: Preservative agents, temperature and substrate. <i>Journal of Environmental Management</i> , 2022, 311, 114860.	3.8	8
68	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
69	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
70	The inhibitory effect of fluoride on anaerobic ammonium oxidation (anammox). <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 640-646.	1.6	4
71	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> , 0, , .	2.2	3
72	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

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73	The response of anaerobic ammonium oxidation process to bisphenol-A: Linking reactor performance to microbial community and functional gene. Science of the Total Environment, 2022, , 156030.	3.9	0