

Akihiko Terada

List of Publications by Year in descending order

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154
papers

4,976
citations

76326

40
h-index

106344

65
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155
all docs

155
docs citations

155
times ranked

4587
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrous oxide-sink capability of denitrifying bacteria impacted by nitrite and pH. <i>Chemical Engineering Journal</i> , 2022, 428, 132402.	12.7	23
2	Organic carbon determines nitrous oxide consumption activity of clade I and II nosZ bacteria: Genomic and biokinetic insights. <i>Water Research</i> , 2022, 209, 117910.	11.3	19
3	Significance of soil moisture on temperature dependence of Hg emission. <i>Journal of Environmental Management</i> , 2022, 305, 114308.	7.8	9
4	Low nitrous oxide concentration and spatial microbial community transition across an urban river affected by treated sewage. <i>Water Research</i> , 2022, 216, 118276.	11.3	12
5	N ₂ O Reduction by <i>Gemmatimonas aurantiaca</i> and Potential Involvement of <i>Gemmatimonadetes</i> Bacteria in N ₂ O Reduction in Agricultural Soils. <i>Microbes and Environments</i> , 2022, 37, n/a.	1.6	10
6	Recent Progress in Cutting-edge Monitoring Tools for Microbiomes in Engineered Systems. <i>Journal of Japan Society on Water Environment</i> , 2022, 45, 91-105.	0.4	0
7	Efficient oxygen supply and rapid biofilm formation by a new composite polystyrene elastomer membrane for use in a membrane-aerated biofilm reactor. <i>Biochemical Engineering Journal</i> , 2022, 183, 108442.	3.6	10
8	Identification of nosZ-expressing microorganisms consuming trace N ₂ O in microaerobic chemostat consortia dominated by an uncultured Burkholderiales. <i>ISME Journal</i> , 2022, 16, 2087-2098.	9.8	12
9	Time to act—assessing variations in qPCR analyses in biological nitrogen removal with examples from partial nitrification/anammox systems. <i>Water Research</i> , 2021, 190, 116604.	11.3	8
10	Temperature and oxygen level determine N ₂ O respiration activities of heterotrophic N ₂ O-reducing bacteria: Biokinetic study. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1330-1341.	3.3	13
11	Long-term Assessment of N ₂ O Emission Factor in Full-scale Oxidation Ditch Reactor Considering Spatiotemporal Distribution. <i>Journal of Water and Environment Technology</i> , 2021, 19, 139-152.	0.7	1
12	Metagenomic Insights Into Functional and Taxonomic Compositions of an Activated Sludge Microbial Community Treating Leachate of a Completed Landfill: A Pathway-Based Analysis. <i>Frontiers in Microbiology</i> , 2021, 12, 640848.	3.5	2
13	Combination of ¹⁵ N Tracer and Microbial Analyses Discloses N ₂ O Sink Potential of the Anammox Community. <i>Environmental Science & Technology</i> , 2021, 55, 9231-9242.	10.0	23
14	Nonlinear pattern and algal dual-impact in N ₂ O emission with increasing trophic levels in shallow lakes. <i>Water Research</i> , 2021, 203, 117489.	11.3	38
15	Increased nitrogen deposition contributes to plant biodiversity loss in Japan: Insights from long-term historical monitoring data. <i>Environmental Pollution</i> , 2021, 290, 118033.	7.5	10
16	Predicting the acute ecotoxicity of chemical substances by machine learning using graph theory. <i>Chemosphere</i> , 2020, 238, 124604.	8.2	34
17	Complete Genome Sequence of <i>Methylosinus</i> sp. Strain C49, a Methane-Oxidizing Bacterium Harboring phaABC Genes for Polyhydroxyalkanoate Synthesis. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	1
18	Nitrogen removal efficiencies and microbial communities in full-scale IFAS and MBBR municipal wastewater treatment plants at high COD:N ratio. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	6.0	44

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19	Oxygen diffusivity and reaction rate in spherical gel entrapping ammonia-oxidizing bacteria. <i>Biochemical Engineering Journal</i> , 2020, 164, 107788.	3.6	2
20	Identification of a Metagenome-Assembled Genome of an Uncultured <i>Methyloceanibacter</i> sp. Strain Acquired from an Activated Sludge System Used for Landfill Leachate Treatment. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	4
21	Exploration and enrichment of methane-oxidizing bacteria derived from a rice paddy field emitting highly concentrated methane. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 311-318.	2.2	6
22	Nonlinear response of methane release to increased trophic state levels coupled with microbial processes in shallow lakes. <i>Environmental Pollution</i> , 2020, 265, 114919.	7.5	33
23	Reducing geogenic arsenic leaching from excavated sedimentary soil using zero-valent iron amendment followed by dry magnetic separation: A case study. <i>Science of the Total Environment</i> , 2020, 724, 138203.	8.0	12
24	The implication of an advanced bioprocess for the acquisition of valuable microbial resources toward a sustainable and low-environmental burden society. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 993-994.	4.1	0
25	Identifying prokaryotes and eukaryotes disintegrated by a high-pressure jet device for excess activated sludge reduction. <i>Biochemical Engineering Journal</i> , 2020, 157, 107495.	3.6	4
26	Eco-compatible biochar mitigates volatile fatty acids stress in high load thermophilic solid-state anaerobic reactors treating agricultural waste. <i>Bioresource Technology</i> , 2020, 309, 123366.	9.6	22
27	Quorum quenching acylase impacts the viability and morphological change of <i>Agrobacterium tumefaciens</i> cells. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 82-88.	2.2	4
28	Complete Genome Sequence of <i>Pseudomonas putida</i> Strain TS312, Harboring an HdtS-Type N-Acyl-Homoserine Lactone Synthase, Isolated from a Paper Mill. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	3
29	Nitrogen and Oxygen Isotope Signatures of Nitrogen Compounds during Anammox in the Laboratory and a Wastewater Treatment Plant. <i>Microbes and Environments</i> , 2020, 35, n/a.	1.6	7
30	Excess Sludge Reduction Using a High-pressure Jet Device via a Modified Ludzack-Ettinger Process: Performance and Microbial Communities. <i>Journal of Water and Environment Technology</i> , 2020, 18, 238-253.	0.7	1
31	Enhancing the dewaterability of anaerobically digested sludge using fibrous materials recovered from primary sludge: demonstration from a field study. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1131-1141.	4.1	3
32	Potential of bacterial cometabolism as another means of antibiotic decomposition in a wastewater treatment facility. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1699-1700.	4.1	2
33	Determining uncertainties in PICRUSt analysis – An easy approach for autotrophic nitrogen removal. <i>Biochemical Engineering Journal</i> , 2019, 152, 107328.	3.6	16
34	Enrichment, Isolation, and Characterization of High-Affinity N ₂ O-Reducing Bacteria in a Gas-Permeable Membrane Reactor. <i>Environmental Science & Technology</i> , 2019, 53, 12101-12112.	10.0	38
35	Inhibition of <i>Agrobacterium tumefaciens</i> biofilm formation by acylase I-immobilized polymer surface grafting of a zwitterionic group-containing polymer brush. <i>Biochemical Engineering Journal</i> , 2019, 152, 107372.	3.6	9
36	Lessons from a simple ecological wastewater treatment technology for scientific research and advanced engineering. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 717-718.	4.1	3

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37	Impact of turning waste on performance and energy balance in thermophilic solid-state anaerobic digestion of agricultural waste. <i>Waste Management</i> , 2019, 87, 183-191.	7.4	13
38	Startup, performance, and microbial communities of an anammox reactor inoculated with indigenous sludge for the treatment of high-salinity and mesophilic underground brine. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1001-1011.	4.1	2
39	High-rate partial nitrification of semiconductor wastewater: Implications of online monitoring and microbial community structure. <i>Biochemical Engineering Journal</i> , 2019, 143, 34-40.	3.6	12
40	Removal and immobilization of heavy metals in contaminated soils by chlorination and thermal treatment on an industrial-scale. <i>Chemical Engineering Journal</i> , 2019, 359, 385-392.	12.7	62
41	Spatial and daily variations of nitrous oxide emissions from biological reactors in a full-scale activated sludge anoxic/oxic process. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 333-339.	2.2	7
42	Comparison of leachate percolation and immersion using different inoculation strategies in thermophilic solid-state anaerobic digestion of pig urine and rice straw. <i>Bioresource Technology</i> , 2019, 277, 216-220.	9.6	16
43	Prediction of Fish Acute Ecotoxicity of Inorganic and Ionized Chemical Substances by Machine Learning. <i>Journal of Computer Aided Chemistry</i> , 2019, 20, 104-110.	0.3	0
44	Predicting the Fish Chronic Ecotoxicity of Chemical Substance with New Ecotoxicity Fingerprint and Stacked Ensemble Method on Machine Learning. <i>Journal of Computer Aided Chemistry</i> , 2019, 20, 111-118.	0.3	0
45	Novel composite gel beads for the immobilization of ammonia-oxidizing bacteria: Fabrication, characterization, and biokinetic analysis. <i>Chemical Engineering Journal</i> , 2018, 342, 260-265.	12.7	11
46	The influence of the total solid content on the stability of dry-thermophilic anaerobic digestion of rice straw and pig manure. <i>Waste Management</i> , 2018, 76, 350-356.	7.4	41
47	Immobilization of <i>Azospira</i> sp. strain I13 by gel entrapment for mitigation of N ₂ O from biological wastewater treatment plants: Biokinetic characterization and modeling. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 213-219.	2.2	11
48	Influence of feedstock-to-inoculum ratio on performance and microbial community succession during solid-state thermophilic anaerobic co-digestion of pig urine and rice straw. <i>Bioresource Technology</i> , 2018, 252, 127-133.	9.6	46
49	Investigations of water-extractability of As in excavated urban soils using sequential leaching tests: Effect of testing parameters. <i>Journal of Environmental Management</i> , 2018, 217, 297-304.	7.8	8
50	Pollution potential leaching index as a tool to assess water leaching risk of arsenic in excavated urban soils. <i>Ecotoxicology and Environmental Safety</i> , 2018, 147, 72-79.	6.0	18
51	N ₂ O production by denitrification in an urban river: evidence from isotopes, functional genes, and dissolved organic matter. <i>Limnology</i> , 2018, 19, 115-126.	1.5	19
52	Draft Genome Sequence of <i>Azospira</i> sp. Strain I13, a Nitrous Oxide-Reducing Bacterium Harboring Clade II Type <i>nosZ</i> . <i>Genome Announcements</i> , 2018, 6, .	0.8	6
53	Nitrous oxide emissions from biofilm processes for wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9815-9829.	3.6	71
54	Biokinetic Characterization and Activities of N ₂ O-Reducing Bacteria in Response to Various Oxygen Levels. <i>Frontiers in Microbiology</i> , 2018, 9, 697.	3.5	65

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55	Significance of co-digestion as energy recovery at a sewage treatment plant amenable to a shrinking population. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 909-910.	4.1	0
56	High-rate nitrogen removal from waste brine by marine anammox bacteria in a pilot-scale UASB reactor. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1501-1512.	3.6	38
57	Reduction of Alkali Consumption in One-Stage Partial Nitrification-Anammox Treatment for Waste Brine. <i>Kagaku Kogaku Ronbunshu</i> , 2018, 44, 324-333.	0.3	0
58	Synthesis of CTAB intercalated graphene and its application for the adsorption of AR265 and AO7 dyes from water. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 51-61.	9.4	83
59	Use of batch leaching tests to quantify arsenic release from excavated urban soils with relatively low levels of arsenic. <i>Journal of Soils and Sediments</i> , 2017, 17, 2136-2143.	3.0	18
60	Resuscitation of starved suspended- and attached-growth anaerobic ammonium oxidizing bacteria with and without acetate. <i>Water Science and Technology</i> , 2017, 75, 115-127.	2.5	14
61	Hybrid Nitrous Oxide Production from a Partial Nitrifying Bioreactor: Hydroxylamine Interactions with Nitrite. <i>Environmental Science & Technology</i> , 2017, 51, 2748-2756.	10.0	66
62	Nitrite oxidation kinetics of two <i>Nitrospira</i> strains: The quest for competition and ecological niche differentiation. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 581-589.	2.2	99
63	How can we transfer scientific discoveries to engineered systems?: An example of exploring unknown bacteria. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 625-626.	4.1	0
64	Disentangling the multiple effects of a novel high pressure jet device upon bacterial cell disruption. <i>Chemical Engineering Journal</i> , 2017, 323, 105-113.	12.7	18
65	Efficacy of a high-pressure jet device for excess sludge reduction in a conventional activated sludge process: Pilot-scale demonstration. <i>Chemical Engineering Journal</i> , 2017, 326, 78-86.	12.7	9
66	Nitrous oxide production and mRNA expression analysis of nitrifying and denitrifying bacterial genes under floodwater disappearance and fertilizer application. <i>Environmental Science and Pollution Research</i> , 2017, 24, 15852-15859.	5.3	11
67	Antibacterial and anti-biofilm efficacy of fluoropolymer coating by a 2,3,5,6-tetrafluoro-p-phenylenedimethanol structure. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 151, 363-371.	5.0	26
68	Counter-diffusion biofilms have lower N ₂ O emissions than co-diffusion biofilms during simultaneous nitrification and denitrification: Insights from depth-profile analysis. <i>Water Research</i> , 2017, 124, 363-371.	11.3	87
69	Identification of hotspots for NO and N ₂ O production and consumption in counter- and co-diffusion biofilms for simultaneous nitrification and denitrification. <i>Bioresource Technology</i> , 2017, 245, 318-324.	9.6	26
70	Effect of Biological and Mass Transfer Parameter Uncertainty on N ₂ O Emission Estimates from WRRFs. <i>Water Environment Research</i> , 2017, 89, 580-585.	2.7	2
71	Free nitrous acid and pH determine the predominant ammonia-oxidizing bacteria and amount of N ₂ O in a partial nitrifying reactor. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1673-1683.	3.6	44
72	Breaking trade-off in nitrogen management and sustainability. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1993-1994.	4.1	0

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73	Improvement of Dewatering Efficiency of Anaerobic Digested Sludge by use of Fibrous Materials in Sewage. Kagaku Kogaku Ronbunshu, 2017, 43, 238-244.	0.3	1
74	Feasibility of Biodegradation of Clarithromycin by <i>Nitrosomonas europaea&/i>. Kagaku Kogaku Ronbunshu, 2017, 43, 264-270.	0.3	2
75	Digestibility of Riverbed Plants by Dry-Thermophilic Anaerobic Digestion. Kagaku Kogaku Ronbunshu, 2017, 43, 224-230.	0.3	0
76	Predicting the Responses of Soil Nitrite-Oxidizers to Multi-Factorial Global Change: A Trait-Based Approach. Frontiers in Microbiology, 2016, 7, 628.	3.5	50
77	Potential for leaching of arsenic from excavated rock after different drying treatments. Chemosphere, 2016, 154, 276-282.	8.2	30
78	Variation of the microbial community in thermophilic anaerobic digestion of pig manure mixed with different ratios of rice straw. Journal of Bioscience and Bioengineering, 2016, 122, 334-340.	2.2	32
79	Single-cell analysis of the disruption of bacteria with a high-pressure jet device: An application of atomic force microscopy. Chemical Engineering Journal, 2016, 306, 1099-1108.	12.7	12
80	Dodecyl sulfate chain anchored mesoporous graphene: Synthesis and application to sequester heavy metal ions from aqueous phase. Chemical Engineering Journal, 2016, 304, 431-439.	12.7	38
81	Arsenic leaching potential from excavated rock: Sequential Leaching Test (SLT) and Rapid Small-Scale Column Test (RSSCT)â€™a case study. Arsenic in the Environment Proceedings, 2016, , 157-159.	0.0	1
82	Influence of C/N Ratio on Performance and Microbial Community Structure of Dry-Thermophilic Anaerobic Co-Digestion of Swine Manure and Rice Straw. Journal of Medical and Bioengineering, 2016, 5, 11-14.	0.5	16
83	Decomposition of Insoluble Cyanide in Contaminated Soil by Base-Activated Sodium Persulfate. Journal of Chemical Engineering of Japan, 2015, 48, 970-975.	0.6	1
84	Identification of a predominant effect on bacterial cell disruption and released organic matters by a high-pressure jet device. Biochemical Engineering Journal, 2015, 101, 220-227.	3.6	9
85	Identification and quantification of bacteria and archaea responsible for ammonia oxidation in different activated sludge of full-scale wastewater treatment plants. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 169-175.	1.7	12
86	Novel abiotic reactions increase nitrous oxide production during partial nitrification: Modeling and experiments. Chemical Engineering Journal, 2015, 281, 1017-1023.	12.7	45
87	High-pressure jet device for activated sludge reduction: Feasibility of sludge solubilization. Biochemical Engineering Journal, 2015, 100, 1-8.	3.6	19
88	Influence of nitrogen loading and plant nitrogen assimilation on nitrogen leaching and N2O emission in forage rice paddy fields fertilized with liquid cattle waste. Environmental Science and Pollution Research, 2015, 22, 5762-5771.	5.3	17
89	Effects of N loading rate on CH4 and N2O emissions during cultivation and fallow periods from forage rice fields fertilized with liquid cattle waste. Journal of Environmental Management, 2015, 161, 124-130.	7.8	5
90	Effect of carbon sources on nitrous oxide emission in a modified Ludzak Ettinger process. Water Science and Technology, 2015, 72, 572-578.	2.5	0

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91	Effects of aeration and internal recycle flow on nitrous oxide emissions from a modified Ludzakâ€™Ettinger process fed with glycerol. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19562-19570.	5.3	14
92	Removal of PCBs and HCB from contaminated solids using a novel successive self-propagated sintering process. <i>Environmental Science and Pollution Research</i> , 2015, 22, 17527-17539.	5.3	6
93	Successive self-propagating sintering process using carbonaceous materials: A novel low-cost remediation approach for dioxin-contaminated solids. <i>Journal of Hazardous Materials</i> , 2015, 299, 231-240.	12.4	5
94	Impact of carbon sources on nitrous oxide emission and microbial community structure in an anoxic/oxic activated sludge system. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 2375-2385.	4.1	28
95	Mitigation of CH ₄ and N ₂ O emissions from a forage rice field fertilized with aerated liquid fraction of cattle slurry by optimizing water management and topdressing. <i>Ecological Engineering</i> , 2015, 75, 24-32.	3.6	12
96	Anaerobic Baffled Reactor Pilot at Plum Creek Water Reclamation Authority. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 2189-2198.	0.0	0
97	Abundance, transcription levels and phylogeny of bacteria capable of nitrous oxide reduction in a municipal wastewater treatment plant. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 289-297.	2.2	40
98	Sequentially aerated membrane biofilm reactors for autotrophic nitrogen removal: microbial community composition and dynamics. <i>Microbial Biotechnology</i> , 2014, 7, 32-43.	4.2	50
99	Mitigation of Greenhouse Gas Emissions by Water Management in a Forage Rice Paddy Field Supplemented with Dry-Thermophilic Anaerobic Digestion Residue. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	8
100	Study of penetration behavior of PCB-DNAPL in a sand layer by a column experiment. <i>Chemosphere</i> , 2014, 114, 59-68.	8.2	2
101	The relationship between anammox and denitrification in the sediment of an inland river. <i>Science of the Total Environment</i> , 2014, 490, 1029-1036.	8.0	90
102	Removal of PCDD/Fs from contaminated sediment and released effluent gas by charcoal in a proposed cost-effective thermal treatment process. <i>Chemosphere</i> , 2013, 93, 1456-1463.	8.2	9
103	Physiological characteristics of predominant ammonia-oxidizing bacteria enriched from bioreactors with different influent supply regimes. <i>Biochemical Engineering Journal</i> , 2013, 79, 153-161.	3.6	56
104	Autotrophic Nitrogen Removal in a Membrane-Aerated Biofilm Reactor Under Continuous Aeration: A Demonstration. <i>Environmental Engineering Science</i> , 2013, 30, 38-45.	1.6	48
105	Degradation of polychlorinated naphthalene by mechanochemical treatment. <i>Chemosphere</i> , 2013, 93, 2657-2661.	8.2	20
106	An immobilisation mechanism for lead in fly ash subjected to mechanochemical treatment. <i>International Journal of Environment and Waste Management</i> , 2013, 12, 340.	0.3	3
107	Applicability of a Sequencing Batch Membrane Biofilm Reactor for Simultaneous Nitrogen and Phosphorus Removal from Low C/N Ratio Wastewater. <i>Journal of Water and Environment Technology</i> , 2013, 11, 487-496.	0.7	0
108	Evaluation of permeation rates of soil fumigants through plastic films by the cup method. <i>Journal of Pesticide Sciences</i> , 2012, 37, 28-36.	1.4	1

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109	CH ₄ and N ₂ O emissions from different varieties of forage rice (<i>Oryza sativa</i> L.) treating liquid cattle waste. <i>Science of the Total Environment</i> , 2012, 419, 178-186.	8.0	27
110	Utilization of recycled charcoal as a thermal source and adsorbent for the treatment of PCDD/Fs contaminated sediment. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 182-189.	12.4	9
111	The effect of surface charge property on <i>Escherichia coli</i> initial adhesion and subsequent biofilm formation. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1745-1754.	3.3	107
112	Mechanochemical degradation of ¹³ C-hexachlorocyclohexane by a planetary ball mill in the presence of CaO. <i>Chemosphere</i> , 2012, 86, 228-234.	8.2	47
113	Formation pathways of polychlorinated dibenzofurans (PCDFs) in sediments contaminated with PCBs during the thermal desorption process. <i>Chemosphere</i> , 2012, 88, 1368-1374.	8.2	35
114	Assessing nitrification and denitrification in a paddy soil with different water dynamics and applied liquid cattle waste using the ¹⁵ N isotopic technique. <i>Science of the Total Environment</i> , 2012, 430, 93-100.	8.0	53
115	Mechanisms of Nitrogen Removal in Forage Rice Field Applied with Liquid Cattle Waste at High Nitrogen Loading. <i>Kagaku Kogaku Ronbunshu</i> , 2012, 38, 290-298.	0.3	1
116	Enhancement of Nitrogen and Phosphorus Removal in an Anaerobic/Oxic/Anoxic Sequencing Batch Reactor as Affected by the Amount of External Carbon. <i>Journal of Water and Environment Technology</i> , 2011, 9, 79-86.	0.7	0
117	Structure and activity of lacustrine sediment bacteria involved in nutrient and iron cycles. <i>FEMS Microbiology Ecology</i> , 2011, 77, 666-679.	2.7	51
118	Presence and detection of anaerobic ammonium-oxidizing (anammox) bacteria and appraisal of anammox process for high-strength nitrogenous wastewater treatment: a review. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 759-781.	4.1	64
119	Effect of infiltration rate on nitrogen dynamics in paddy soil after high-load nitrogen application containing ¹⁵ N tracer. <i>Ecological Engineering</i> , 2011, 37, 685-692.	3.6	31
120	Adequacy of a Simple Diffusion Model to Predict Benzene Behavior in Soil. <i>Soil Science Society of America Journal</i> , 2011, 75, 2147-2157.	2.2	9
121	Behavior of PCDDs/PCDFs in remediation of PCBs-contaminated sediments by thermal desorption. <i>Chemosphere</i> , 2010, 80, 184-189.	8.2	51
122	Prevention of lead leaching from fly ashes by mechanochemical treatment. <i>Waste Management</i> , 2010, 30, 1290-1295.	7.4	32
123	Microbial community structure in autotrophic nitrifying granules characterized by experimental and simulation analyses. <i>Environmental Microbiology</i> , 2010, 12, 192-206.	3.8	108
124	Shifts between <i>Nitrospira</i> and <i>Nitrobacter</i> -like nitrite oxidizers underlie the response of soil potential nitrite oxidation to changes in tillage practices. <i>Environmental Microbiology</i> , 2010, 12, 315-326.	3.8	214
125	Inoculum effects on community composition and nitrification performance of autotrophic nitrifying biofilm reactors with counter-diffusion geometry. <i>Environmental Microbiology</i> , 2010, 12, 2858-2872.	3.8	59
126	Sequential Aeration of Membrane-Aerated Biofilm Reactors for High-Rate Autotrophic Nitrogen Removal: Experimental Demonstration. <i>Environmental Science & Technology</i> , 2010, 44, 7628-7634.	10.0	109

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127	Nitrification performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. <i>Water Research</i> , 2010, 44, 6073-6084.	11.3	70
128	Aggregate Size and Architecture Determine Microbial Activity Balance for One-Stage Partial Nitrification and Anammox. <i>Applied and Environmental Microbiology</i> , 2010, 76, 900-909.	3.1	318
129	Direct and Indirect Greenhouse Gas Emissions from Vertical Flow Constructed Wetland Planted with Forage Rice. <i>Kagaku Kogaku Ronbunshu</i> , 2010, 36, 229-236.	0.3	8
130	The effect of hydroxylamine on the activity and aggregate structure of autotrophic nitrifying bioreactor cultures. <i>Biotechnology and Bioengineering</i> , 2009, 102, 714-724.	3.3	37
131	Nitrogen Removal from Digested Black Water by One-Stage Partial Nitrification and Anammox. <i>Environmental Science & Technology</i> , 2009, 43, 5035-5041.	10.0	160
132	Nitrification performance and biofilm development of co- and counter-diffusion biofilm reactors: Modeling and experimental comparison. <i>Water Research</i> , 2009, 43, 2699-2709.	11.3	51
133	Enhancing the formation and shear resistance of nitrifying biofilms on membranes by surface modification. <i>Water Research</i> , 2009, 43, 3469-3478.	11.3	60
134	Fibrous Support Stabilizes Nitrification Performance of a Membrane-Aerated Biofilm: The Effect of Liquid Flow Perturbation. <i>Journal of Chemical Engineering of Japan</i> , 2009, 42, 607-615.	0.6	10
135	Modeling and experimental study on the anaerobic/aerobic/anoxic process for simultaneous nitrogen and phosphorus removal: The effect of acetate addition. <i>Process Biochemistry</i> , 2008, 43, 605-614.	3.7	15
136	Heterotrophic activity compromises autotrophic nitrogen removal in membrane-aerated biofilms: Results of a modeling study. <i>Water Research</i> , 2008, 42, 1102-1112.	11.3	175
137	Model Prediction of Completely Autotrophic Nitrogen Removal under Different Reactor Configurations. <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 3082-3100.	0.0	0
138	Population Dynamics of Aerobic and Anaerobic Ammonia Oxidizers in an Autotrophic Nitrogen Removal Membrane Biofilm Reactor. <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 3209-3220.	0.0	0
139	Controlling Gaseous Nitrogen Oxide Emissions and Nitrogen Removal Performance in Hollow Fiber Membrane-Aerated Biofilm Reactors. <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 327-342.	0.0	0
140	Surface Modification for Bacterial Immobilization by Radiation-Induced Graft Polymerization and Application to Biological Wastewater Treatment. <i>Membrane</i> , 2008, 33, 54-62.	0.0	0
141	Experimental and simulation analysis of community structure of nitrifying bacteria in a membrane-aerated biofilm. <i>Water Science and Technology</i> , 2007, 55, 283-290.	2.5	43
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146	Rapid autohydrogenotrophic denitrification by a membrane biofilm reactor equipped with a fibrous support around a gas-permeable membrane. <i>Biochemical Engineering Journal</i> , 2006, 31, 84-91.	3.6	50
147	Effects of acetate and nitrite addition on fraction of denitrifying phosphate-accumulating organisms and nutrient removal efficiency in anaerobic/aerobic/anoxic process. <i>Bioprocess and Biosystems Engineering</i> , 2006, 29, 305-313.	3.4	13
148	Sequencing batch membrane biofilm reactor for simultaneous nitrogen and phosphorus removal: Novel application of membrane-aerated biofilm. <i>Biotechnology and Bioengineering</i> , 2006, 94, 730-739.	3.3	39
149	Bacterial adhesion to and viability on positively charged polymer surfaces. <i>Microbiology (United Kingdom)</i> 151, 1812-1821. Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	129
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