

Siegfried E Vlaeminck

List of Publications by Year in descending order

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Version: 2024-02-01

141
papers

7,379
citations

53751

45
h-index

60583

81
g-index

144
all docs

144
docs citations

144
times ranked

4802
citing authors

#	ARTICLE	IF	CITATIONS
1	Dehazing redox homeostasis to foster purple bacteria biotechnology. <i>Trends in Biotechnology</i> , 2023, 41, 106-119.	4.9	7
2	Unlocking the genomic potential of aerobes and phototrophs for the production of nutritious and palatable microbial food without arable land or fossil fuels. <i>Microbial Biotechnology</i> , 2022, 15, 6-12.	2.0	9
3	A bioreactor and nutrient balancing approach for the conversion of solid organic fertilizers to liquid nitrate-rich fertilizers: Mineralization and nitrification performance complemented with economic aspects. <i>Science of the Total Environment</i> , 2022, 806, 150415.	3.9	3
4	Storage without nitrite or nitrate enables the long-term preservation of full-scale partial nitrification/anammox sludge. <i>Science of the Total Environment</i> , 2022, 806, 151330.	3.9	13
5	Aerobes and phototrophs as microbial organic fertilizers: Exploring mineralization, fertilization and plant protection features. <i>PLoS ONE</i> , 2022, 17, e0262497.	1.1	8
6	Regulating light, oxygen and volatile fatty acids to boost the productivity of purple bacteria biomass, protein and co-enzyme Q10. <i>Science of the Total Environment</i> , 2022, 822, 153489.	3.9	6
7	Towards mainstream partial nitrification/anammox in four seasons: Feasibility of bioaugmentation with stored summer sludge for winter anammox assistance. <i>Bioresource Technology</i> , 2022, 347, 126619.	4.8	11
8	Aggregation of purple bacteria in an upflow photobioreactor to facilitate solid/liquid separation: Impact of organic loading rate, hydraulic retention time and water composition. <i>Bioresource Technology</i> , 2022, 348, 126806.	4.8	6
9	Evaluation of Lignocellulosic Wastewater Valorization with the Oleaginous Yeasts <i>R. kratochvilovae</i> EXF7516 and <i>C. oleaginosum</i> ATCC 20509. <i>Fermentation</i> , 2022, 8, 204.	1.4	6
10	Environmental and economic sustainability of the nitrogen recovery paradigm: Evidence from a structured literature review. <i>Resources, Conservation and Recycling</i> , 2022, 184, 106406.	5.3	23
11	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.	5.3	8
12	Purple bacteria as added-value protein ingredient in shrimp feed: <i>Penaeus vannamei</i> growth performance, and tolerance against <i>Vibrio</i> and ammonia stress. <i>Aquaculture</i> , 2021, 530, 735788.	1.7	52
13	Cocultivating aerobic heterotrophs and purple bacteria for microbial protein in sequential photo- and chemotrophic reactors. <i>Bioresource Technology</i> , 2021, 319, 124192.	4.8	28
14	A systematic comparison of commercially produced struvite: Quantities, qualities and soil-maize phosphorus availability. <i>Science of the Total Environment</i> , 2021, 756, 143726.	3.9	60
15	Operational Strategies to Selectively Produce Purple Bacteria for Microbial Protein in Raceway Reactors. <i>Environmental Science & Technology</i> , 2021, 55, 8278-8286.	4.6	28
16	Electrochemical In Situ pH Control Enables Chemical-Free Full Urine Nitrification with Concomitant Nitrate Extraction. <i>Environmental Science & Technology</i> , 2021, 55, 8287-8298.	4.6	9
17	From Biogas and Hydrogen to Microbial Protein Through Co-Cultivation of Methane and Hydrogen Oxidizing Bacteria. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 733753.	2.0	17
18	Enhanced fungal delignification and enzymatic digestibility of poplar wood by combined CuSO ₄ and MnSO ₄ supplementation. <i>Process Biochemistry</i> , 2021, 108, 129-137.	1.8	14

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19	Microbial food from light, carbon dioxide and hydrogen gas: Kinetic, stoichiometric and nutritional potential of three purple bacteria. <i>Bioresource Technology</i> , 2021, 337, 125364.	4.8	8
20	Towards harmonization of water quality management: A comparison of chemical drinking water and surface water quality standards around the globe. <i>Journal of Environmental Management</i> , 2021, 298, 113447.	3.8	11
21	Oxygen control and stressor treatments for complete and long-term suppression of nitrite-oxidizing bacteria in biofilm-based partial nitrification/anammox. <i>Bioresource Technology</i> , 2021, 342, 125996.	4.8	20
22	Piloting carbon-lean nitrogen removal for energy-autonomous sewage treatment. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 2268-2281.	1.2	0
23	Dunaliella Microalgae for Nutritional Protein: An Undervalued Asset. <i>Trends in Biotechnology</i> , 2020, 38, 10-12.	4.9	54
24	Purple non-sulphur bacteria and plant production: benefits for fertilization, stress resistance and the environment. <i>Microbial Biotechnology</i> , 2020, 13, 1336-1365.	2.0	70
25	Adaptation and characterization of thermophilic anammox in bioreactors. <i>Water Research</i> , 2020, 172, 115462.	5.3	21
26	Environmental impact of microbial protein from potato wastewater as feed ingredient: Comparative consequential life cycle assessment of three production systems and soybean meal. <i>Water Research</i> , 2020, 171, 115406.	5.3	67
27	Enrichment and Aggregation of Purple Non-sulfur Bacteria in a Mixed-Culture Sequencing-Batch Photobioreactor for Biological Nutrient Removal From Wastewater. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 557234.	2.0	30
28	Bio-electrochemical COD removal for energy-efficient, maximum and robust nitrogen recovery from urine through membrane aerated nitrification. <i>Water Research</i> , 2020, 185, 116223.	5.3	54
29	A five-stage treatment train for water recovery from urine and shower water for long-term human Space missions. <i>Desalination</i> , 2020, 495, 114634.	4.0	12
30	Dried aerobic heterotrophic bacteria from treatment of food and beverage effluents: Screening of correlations between operation parameters and microbial protein quality. <i>Bioresource Technology</i> , 2020, 307, 123242.	4.8	21
31	Purple phototrophic bacteria for resource recovery: Challenges and opportunities. <i>Biotechnology Advances</i> , 2020, 43, 107567.	6.0	103
32	Storage, fertilization and cost properties highlight the potential of dried microbial biomass as organic fertilizer. <i>Microbial Biotechnology</i> , 2020, 13, 1377-1389.	2.0	28
33	Return-Sludge Treatment with Endogenous Free Nitrous Acid Limits Nitrate Production and N ₂ O Emission for Mainstream Partial Nitrification/Anammox. <i>Environmental Science & Technology</i> , 2020, 54, 5822-5831.	4.6	17
34	The Impact of Local Hydrodynamics on High-Rate Activated Sludge Flocculation in Laboratory and Full-Scale Reactors. <i>Processes</i> , 2020, 8, 131.	1.3	5
35	Harvesting time and biomass composition affect the economics of microalgae production. <i>Journal of Cleaner Production</i> , 2020, 259, 120782.	4.6	35
36	Mainstream partial nitrification/anammox with integrated fixed-film activated sludge: Combined aeration and floc retention time control strategies limit nitrate production. <i>Bioresource Technology</i> , 2020, 314, 123711.	4.8	31

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37	Pioneering on single-sludge nitrification/denitrification at 50°C. <i>Chemosphere</i> , 2020, 252, 126527.	4.2	3
38	Bottle or tap? Toward an integrated approach to water type consumption. <i>Water Research</i> , 2020, 173, 115578.	5.3	32
39	High-rate activated sludge systems combined with dissolved air flotation enable effective organics removal and recovery. <i>Bioresource Technology</i> , 2019, 291, 121833.	4.8	35
40	Tomato plants rather than fertilizers drive microbial community structure in horticultural growing media. <i>Scientific Reports</i> , 2019, 9, 9561.	1.6	29
41	Reactivation of Microbial Strains and Synthetic Communities After a Spaceflight to the International Space Station: Corroborating the Feasibility of Essential Conversions in the MELISSA Loop. <i>Astrobiology</i> , 2019, 19, 1167-1176.	1.5	9
42	Media Optimization, Strain Compatibility, and Low-Shear Modeled Microgravity Exposure of Synthetic Microbial Communities for Urine Nitrification in Regenerative Life-Support Systems. <i>Astrobiology</i> , 2019, 19, 1353-1362.	1.5	9
43	Screen versus cyclone for improved capacity and robustness for sidestream and mainstream deammonification. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1769-1781.	1.2	13
44	Urine nitrification with a synthetic microbial community. <i>Systematic and Applied Microbiology</i> , 2019, 42, 126021.	1.2	12
45	¹³ C Incorporation as a Tool to Estimate Biomass Yields in Thermophilic and Mesophilic Nitrifying Communities. <i>Frontiers in Microbiology</i> , 2019, 10, 192.	1.5	5
46	Improving the resource footprint evaluation of products recovered from wastewater: A discussion on appropriate allocation in the context of circular economy. <i>Resources, Conservation and Recycling</i> , 2019, 148, 132-144.	5.3	40
47	Proof of concept of high-rate decentralized pre-composting of kitchen waste: Optimizing design and operation of a novel drum reactor. <i>Waste Management</i> , 2019, 91, 20-32.	3.7	16
48	Enhancement of co-production of nutritional protein and carotenoids in <i>Dunaliella salina</i> using a two-phase cultivation assisted by nitrogen level and light intensity. <i>Bioresource Technology</i> , 2019, 287, 121398.	4.8	51
49	Determining stoichiometry and kinetics of two thermophilic nitrifying communities as a crucial step in the development of thermophilic nitrogen removal. <i>Water Research</i> , 2019, 156, 34-45.	5.3	8
50	High variability in nutritional value and safety of commercially available <i>Chlorella</i> and <i>Spirulina</i> biomass indicates the need for smart production strategies. <i>Bioresource Technology</i> , 2019, 275, 247-257.	4.8	95
51	Light regime and growth phase affect the microalgal production of protein quantity and quality with <i>Dunaliella salina</i> . <i>Bioresource Technology</i> , 2019, 275, 145-152.	4.8	47
52	Volatile fatty acids impacting phototrophic growth kinetics of purple bacteria: Paving the way for protein production on fermented wastewater. <i>Water Research</i> , 2019, 152, 138-147.	5.3	88
53	Resource recovery from pig manure via an integrated approach: A technical and economic assessment for full-scale applications. <i>Bioresource Technology</i> , 2019, 272, 582-593.	4.8	52
54	Effects of salinity, pH and growth phase on the protein productivity by <i>Dunaliella salina</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1032-1040.	1.6	27

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55	Overcoming floc formation limitations in high-rate activated sludge systems. <i>Chemosphere</i> , 2019, 215, 342-352.	4.2	30
56	Success of mainstream partial nitrification/anammox demands integration of engineering, microbiome and modeling insights. <i>Current Opinion in Biotechnology</i> , 2018, 50, 214-221.	3.3	123
57	Sulfur-based denitrification treating regeneration water from ion exchange at high performance and low cost. <i>Bioresource Technology</i> , 2018, 257, 266-273.	4.8	24
58	Pinpointing wastewater and process parameters controlling the AOB to NOB activity ratio in sewage treatment plants. <i>Water Research</i> , 2018, 138, 37-46.	5.3	34
59	Metabolic and Proteomic Responses to Salinity in Synthetic Nitrifying Communities of <i>Nitrosomonas</i> spp. and <i>Nitrobacter</i> spp.. <i>Frontiers in Microbiology</i> , 2018, 9, 2914.	1.5	14
60	Nitrogen cycle microorganisms can be reactivated after Space exposure. <i>Scientific Reports</i> , 2018, 8, 13783.	1.6	16
61	Capture"Ferment"Upgrade: A Three-Step Approach for the Valorization of Sewage Organics as Commodities. <i>Environmental Science & Technology</i> , 2018, 52, 6729-6742.	4.6	97
62	Synergistic Exposure of Return-Sludge to Anaerobic Starvation, Sulfide, and Free Ammonia to Suppress Nitrite Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2018, 52, 8725-8732.	4.6	53
63	Photosynthetic oxygenation for urine nitrification. <i>Water Science and Technology</i> , 2018, 78, 183-194.	1.2	7
64	Refinery and concentration of nutrients from urine with electrodialysis enabled by upstream precipitation and nitrification. <i>Water Research</i> , 2018, 144, 76-86.	5.3	51
65	High-resolution mapping and modeling of anammox recovery from recurrent oxygen exposure. <i>Water Research</i> , 2018, 144, 522-531.	5.3	52
66	Temperature impact on sludge yield, settleability and kinetics of three heterotrophic conversions corroborates the prospect of thermophilic biological nitrogen removal. <i>Bioresource Technology</i> , 2018, 269, 104-112.	4.8	19
67	Supernatant organics from anaerobic digestion after thermal hydrolysis cause direct and/or diffusional activity loss for nitrification and anammox. <i>Water Research</i> , 2018, 143, 270-281.	5.3	67
68	Enrichment and adaptation yield high anammox conversion rates under low temperatures. <i>Bioresource Technology</i> , 2018, 250, 505-512.	4.8	63
69	Enhancing the decoupling of solids retention times in full-scale deammonification processes using screens. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 185-191.	0.0	0
70	Short and Long Term Effect of Decreasing Temperature on Anammox Activity and Enrichment in Mainstream Granular Sludge Process. <i>Lecture Notes in Civil Engineering</i> , 2017, , 50-54.	0.3	0
71	Nitrogen cycling in Bioregenerative Life Support Systems: Challenges for waste refinery and food production processes. <i>Progress in Aerospace Sciences</i> , 2017, 91, 87-98.	6.3	65
72	The ManureEcoMine pilot installation: advanced integration of technologies for the management of organics and nutrients in livestock waste. <i>Water Science and Technology</i> , 2017, 75, 1281-1293.	1.2	21

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73	Smart operation of nitrification/denitrification virtually abolishes nitrous oxide emission during treatment of co-digested pig slurry centrate. <i>Water Research</i> , 2017, 127, 1-10.	5.3	23
74	Kinetic exploration of intracellular nitrate storage in marine microalgae. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 1303-1311.	0.9	0
75	The contribution of microbial biotechnology to sustainable development goals. <i>Microbial Biotechnology</i> , 2017, 10, 984-987.	2.0	73
76	Ureolytic Activity and Its Regulation in <i>Vibrio campbellii</i> and <i>Vibrio harveyi</i> in Relation to Nitrogen Recovery from Human Urine. <i>Environmental Science & Technology</i> , 2017, 51, 13335-13343.	4.6	8
77	It's time to harvest: Combining internal selection and flocculent external selection to maximize carbon capture efficiency. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 4294-4296.	0.0	0
78	Growing media constituents determine the microbial nitrogen conversions in organic growing media for horticulture. <i>Microbial Biotechnology</i> , 2016, 9, 389-399.	2.0	42
79	Impact of carbon to nitrogen ratio and aeration regime on mainstream deammonification. <i>Water Science and Technology</i> , 2016, 74, 375-384.	1.2	61
80	Used water and nutrients: Recovery perspectives in a <i>Wpanta rhei</i> context. <i>Bioresource Technology</i> , 2016, 215, 199-208.	4.8	79
81	High-rate activated sludge communities have a distinctly different structure compared to low-rate sludge communities, and are less sensitive towards environmental and operational variables. <i>Water Research</i> , 2016, 100, 137-145.	5.3	62
82	Production of carboxylates from high rate activated sludge through fermentation. <i>Bioresource Technology</i> , 2016, 217, 165-172.	4.8	30
83	Uncoupling the solids retention times of flocs and granules in mainstream deammonification: A screen as effective out-selection tool for nitrite oxidizing bacteria. <i>Bioresource Technology</i> , 2016, 221, 195-204.	4.8	87
84	Follow the N and P road: High-resolution nutrient flow analysis of the Flanders region as precursor for sustainable resource management. <i>Resources, Conservation and Recycling</i> , 2016, 115, 9-21.	5.3	59
85	Live Fast, Die Young: Optimizing Retention Times in High-Rate Contact Stabilization for Maximal Recovery of Organics from Wastewater. <i>Environmental Science & Technology</i> , 2016, 50, 9781-9790.	4.6	67
86	Microbial Biotechnology 2020. <i>Microbial Biotechnology</i> , 2016, 9, 529-529.	2.0	2
87	Thermophilic sludge digestion improves energy balance and nutrient recovery potential in full-scale municipal wastewater treatment plants. <i>Bioresource Technology</i> , 2016, 218, 1237-1245.	4.8	86
88	Energy efficient treatment of A-stage effluent: pilot-scale experiences with shortcut nitrogen removal. <i>Water Science and Technology</i> , 2016, 73, 2150-2158.	1.2	19
89	Empowering a mesophilic inoculum for thermophilic nitrification: Growth mode and temperature pattern as critical proliferation factors for archaeal ammonia oxidizers. <i>Water Research</i> , 2016, 92, 94-103.	5.3	17
90	A robust nitrifying community in a bioreactor at 50 °C opens up the path for thermophilic nitrogen removal. <i>ISME Journal</i> , 2016, 10, 2293-2303.	4.4	36

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91	Deammonification for digester supernatant pretreated with thermal hydrolysis: overcoming inhibition through process optimization. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5595-5606.	1.7	37
92	Nitrification and microalgae cultivation for two-stage biological nutrient valorization from source separated urine. <i>Bioresource Technology</i> , 2016, 211, 41-50.	4.8	52
93	Mechanistic Understanding of Microbial Activity Inhibition: Case Study on Sidestream Deammonification for Digester Supernatant Pretreated by Thermal Hydrolysis. <i>Proceedings of the Water Environment Federation</i> , 2016, 2016, 6073-6088.	0.0	1
94	Biofilms for One-stage Autotrophic Nitrogen Removal. , 2016, , 205-222.		0
95	Effective carbon and nutrient treatment solutions for mixed domestic-industrial wastewater in India. <i>Water Science and Technology</i> , 2015, 72, 651-657.	1.2	3
96	Toward energy-neutral wastewater treatment: A high-rate contact stabilization process to maximally recover sewage organics. <i>Bioresource Technology</i> , 2015, 179, 373-381.	4.8	130
97	Environmental sustainability of an energy self-sufficient sewage treatment plant: Improvements through DEMON and co-digestion. <i>Water Research</i> , 2015, 74, 166-179.	5.3	128
98	Nitrogen removal in a moving bed membrane bioreactor for municipal sewage treatment: Community differentiation in attached biofilm and suspended biomass. <i>Chemical Engineering Journal</i> , 2015, 277, 209-218.	6.6	30
99	Nitric oxide preferentially inhibits nitrite oxidizing communities with high affinity for nitrite. <i>Journal of Biotechnology</i> , 2015, 193, 120-122.	1.9	24
100	NOB out-selection in mainstream deammonification – A resilience evaluation. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 2237-2242.	0.0	2
101	A Novel Method for Quantifying the Solubilization Potential of Thermal Hydrolysis Processes. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 6559-6568.	0.0	0
102	Efficient THP-AD Filtrate Treatment via Optimized Control Strategies in Sidestream Deammonification Reactor. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 6538-6549.	0.0	1
103	Optimized Cryopreservation of Mixed Microbial Communities for Conserved Functionality and Diversity. <i>PLoS ONE</i> , 2014, 9, e99517.	1.1	74
104	When the smoke disappears: dealing with extinguishing chemicals in firefighting wastewater. <i>Water Science and Technology</i> , 2014, 69, 1720-1727.	1.2	2
105	Increased salinity improves the thermotolerance of mesophilic nitrification. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4691-9.	1.7	11
106	Successful application of nitrification/anammox to wastewater with elevated organic carbon to ammonia ratios. <i>Water Research</i> , 2014, 49, 316-326.	5.3	250
107	Control of nitrification in an oxygen-limited autotrophic nitrification/denitrification rotating biological contactor through disc immersion level variation. <i>Bioresource Technology</i> , 2014, 155, 182-188.	4.8	35
108	Trade-off between mesophilic and thermophilic denitrification: Rates vs. sludge production, settleability and stability. <i>Water Research</i> , 2014, 63, 234-244.	5.3	22

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109	Kinetic exploration of nitrate-accumulating microalgae for nutrient recovery. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8377-8387.	1.7	25
110	Full-scale partial nitrification/anammox experiences – An application survey. <i>Water Research</i> , 2014, 55, 292-303.	5.3	1,401
111	Balancing Denitrification and Anammox Activities in Mainstream Deammonification: Influence of COD Input and Aeration Regime. <i>Proceedings of the Water Environment Federation</i> , 2014, 2014, 7433-7437.	0.0	0
112	Temporal and Spatial Stability of Ammonia-Oxidizing Archaea and Bacteria in Aquarium Biofilters. <i>PLoS ONE</i> , 2014, 9, e113515.	1.1	32
113	One-stage partial nitrification/anammox at 15°C on pretreated sewage: feasibility demonstration at lab-scale. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10199-10210.	1.7	168
114	Revisiting Methanotrophic Communities in Sewage Treatment Plants. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2841-2846.	1.4	40
115	Deammonification process start-up after enrichment of anammox microorganisms from reject water in a moving-bed biofilm reactor. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 3095-3101.	1.2	36
116	Sewage pre-concentration for maximum recovery and reuse at decentralized level. <i>Water Science and Technology</i> , 2013, 67, 1188-1193.	1.2	35
117	NOB out-selection in rotating biological contactors for sidestream and mainstream deammonification. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 1948-1958.	0.0	1
118	Accelerating effect of hydroxylamine and hydrazine on nitrogen removal rate in moving bed biofilm reactor. <i>Biodegradation</i> , 2012, 23, 739-749.	1.5	44
119	Efficient Total Nitrogen Removal in an Ammonia Gas Biofilter through High-Rate OLAND. <i>Environmental Science & Technology</i> , 2012, 46, 8826-8833.	4.6	20
120	Strategies to mitigate N ₂ O emissions from biological nitrogen removal systems. <i>Current Opinion in Biotechnology</i> , 2012, 23, 474-482.	3.3	133
121	Successful hydraulic strategies to start up OLAND sequencing batch reactors at lab scale. <i>Microbial Biotechnology</i> , 2012, 5, 403-414.	2.0	18
122	Stable performance of non-aerated two-stage partial nitrification/anammox (PANAM) with minimal process control. <i>Microbial Biotechnology</i> , 2012, 5, 425-432.	2.0	3
123	Microbial resource management of one-stage partial nitrification/anammox. <i>Microbial Biotechnology</i> , 2012, 5, 433-448.	2.0	145
124	Editorial preface. <i>Microbial Biotechnology</i> , 2012, 5, 305-306.	2.0	2
125	ZeroWasteWater: short-cycling of wastewater resources for sustainable cities of the future. <i>International Journal of Sustainable Development and World Ecology</i> , 2011, 18, 253-264.	3.2	195
126	Floc-based sequential partial nitrification and anammox at full scale with contrasting N ₂ O emissions. <i>Water Research</i> , 2011, 45, 2811-2821.	5.3	166

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127	Efficiency and Sustainability of Urban Wastewater Treatment with Maximum Separation of the Solid and Liquid Fraction. , 2011, , 507-515.		2
128	In quest of the nitrogen oxidizing prokaryotes of the early Earth. Environmental Microbiology, 2011, 13, 283-295.	1.8	39
129	Long-chain acylhomoserine lactones increase the anoxic ammonium oxidation rate in an OLAND biofilm. Applied Microbiology and Biotechnology, 2011, 90, 1511-1519.	1.7	80
130	OLAND is feasible to treat sewage-like nitrogen concentrations at low hydraulic residence times. Applied Microbiology and Biotechnology, 2011, 90, 1537-1545.	1.7	98
131	Fast start-up of a pilot-scale deammonification sequencing batch reactor from an activated sludge inoculum. Water Science and Technology, 2010, 61, 1393-1400.	1.2	62
132	Aggregate Size and Architecture Determine Microbial Activity Balance for One-Stage Partial Nitritation and Anammox. Applied and Environmental Microbiology, 2010, 76, 900-909.	1.4	318
133	A low volumetric exchange ratio allows high autotrophic nitrogen removal in a sequencing batch reactor. Bioresource Technology, 2009, 100, 5010-5015.	4.8	31
134	Nitrogen Removal from Digested Black Water by One-Stage Partial Nitritation and Anammox. Environmental Science & Technology, 2009, 43, 5035-5041.	4.6	160
135	Remediation of trichloroethylene by bio-precipitated and encapsulated palladium nanoparticles in a fixed bed reactor. Chemosphere, 2009, 76, 1221-1225.	4.2	60
136	Biological removal of 17 β -ethinylestradiol by a nitrifier enrichment culture in a membrane bioreactor. Water Research, 2009, 43, 2493-2503.	5.3	97
137	Granular biomass capable of partial nitritation and anammox. Water Science and Technology, 2009, 59, 609.	1.2	11
138	Partial Nitrification Achieved by Pulse Sulfide Doses in a Sequential Batch Reactor. Environmental Science & Technology, 2008, 42, 8715-8720.	4.6	73
139	Granular biomass capable of partial nitritation and anammox. Water Science and Technology, 2008, 58, 1113-1120.	1.2	44
140	Reactivation of aerobic and anaerobic ammonium oxidizers in OLAND biomass after long-term storage. Applied Microbiology and Biotechnology, 2007, 74, 1376-1384.	1.7	68
141	Vertical migration of aggregated aerobic and anaerobic ammonium oxidizers enhances oxygen uptake in a stagnant water layer. Applied Microbiology and Biotechnology, 2007, 75, 1455-1461.	1.7	7