Mark van Loosdrecht

List of Publications by Citations

925 papers	62,787 citations	130 h-index	207 g-index
969 ext. papers	71,547 ext. citations	7 avg, IF	8.18 L-index

#	Paper	IF	Citations
925	Full-scale partial nitritation/anammox experiences--an application survey. *Water Research*, **2014**, 55, 292-303	12.5	1034
924	Nitrous oxide emission during wastewater treatment. *Water Research*, **2009**, 43, 4093-103	12.5	861
923	Startup of reactors for anoxic ammonium oxidation: experiences from the first full-scale anammox reactor in Rotterdam. *Water Research*, **2007**, 41, 4149-63	12.5	835
922	Engineering. Sewage treatment with anammox. *Science*, **2010**, 328, 702-3	33.3	787
921	Microbiology and biochemistry of the enhanced biological phosphate removal process. *Water Research*, **1998**, 32, 3193-3207	12.5	711
920	The role of bacterial cell wall hydrophobicity in adhesion. *Applied and Environmental Microbiology*, **1987**, 53, 1893-7	4.8	665
919	Model of the anaerobic metabolism of the biological phosphorus removal process: Stoichiometry and pH influence. *Biotechnology and Bioengineering*, **1994**, 43, 461-70	4.9	581
918	Aerobic granulation in a sequencing batch reactor. *Water Research*, **1999**, 33, 2283-2290	12.5	560
917	Electrophoretic mobility and hydrophobicity as a measured to predict the initial steps of bacterial adhesion. *Applied and Environmental Microbiology*, **1987**, 53, 1898-901	4.8	560
916	Microplastics in wastewater treatment plants: Detection, occurrence and removal. *Water Research*, **2019**, 152, 21-37	12.5	531
915	Activated Sludge Model No.2d, ASM2D. *Water Science and Technology*, **1999**, 39, 165-182	2.2	524
914	The anaerobic oxidation of ammonium. *FEMS Microbiology Reviews*, **1998**, 22, 421-37	15.1	510
913	Quantifying Biomediated Ground Improvement by Ureolysis: Large-Scale Biogrout Experiment. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2010**, 136, 1721-1728	3.4	471
912	Microbiology and application of the anaerobic ammonium oxidation ('anammox') process. *Current Opinion in Biotechnology*, **2001**, 12, 283-8	11.4	443
911	Mixed culture biotechnology for bioenergy production. *Current Opinion in Biotechnology*, **2007**, 18, 207-12	11.4	439
910	Simultaneous COD, nitrogen, and phosphate removal by aerobic granular sludge. *Biotechnology and Bioengineering*, **2005**, 90, 761-9	4.9	427
909	Aerobic granular sludge in a sequencing batch reactor. *Water Research*, **1997**, 31, 3191-3194	12.5	413

908	Bacterial adhesion: A physicochemical approach. *Microbial Ecology*, **1989**, 17, 1-15	4.4	400
907	Full scale performance of the aerobic granular sludge process for sewage treatment. *Water Research*, **2015**, 84, 207-17	12.5	397
906	Water treatment. Anticipating the next century of wastewater treatment. *Science*, **2014**, 344, 1452-3	33.3	393
905	Filamentous bulking sludge--a critical review. *Water Research*, **2004**, 38, 793-817	12.5	388
904	Fixation and distribution of bacterial activity in sand to induce carbonate precipitation for ground reinforcement. *Ecological Engineering*, **2010**, 36, 112-117	3.9	381
903	The sharon process: an innovative method for nitrogen removal from ammonium-rich waste water. *Water Science and Technology*, **1998**, 37, 135-142	2.2	380
902	The membrane bioreactor: a novel tool to grow anammox bacteria as free cells. *Biotechnology and Bioengineering*, **2008**, 101, 286-94	4.9	372
901	Mainstream partial nitritation-anammox in municipal wastewater treatment: status, bottlenecks, and further studies. *Applied Microbiology and Biotechnology*, **2017**, 101, 1365-1383	5.7	364
900	Dynamics of nitric oxide and nitrous oxide emission during full-scale reject water treatment. *Water Research*, **2008**, 42, 812-26	12.5	345
899	A new planning and design paradigm to achieve sustainable resource recovery from wastewater. *Environmental Science & Technology*, **2009**, 43, 6126-30	10.3	335
898	Wastewater treatment with particulate biofilm reactors. *Journal of Biotechnology*, **2000**, 80, 1-33	3.7	329
897	Mathematical modeling of biofilm structure with a hybrid differential-discrete cellular automaton approach. *Biotechnology and Bioengineering*, **1998**, 58, 101-16	4.9	325
896	Phosphate and potassium recovery from source separated urine through struvite precipitation. *Water Research*, **2007**, 41, 458-66	12.5	324
895	Aerobic granulation in a sequencing batch airlift reactor. *Water Research*, **2002**, 36, 702-12	12.5	311
894	Biological Wastewater Treatment: Principles, Modelling and Design **2008**,		310
893	Activated sludge wastewater treatment plant modelling and simulation: state of the art. *Environmental Modelling and Software*, **2004**, 19, 763-783	5.2	306
892	A computational model for biofilm-based microbial fuel cells. *Water Research*, **2007**, 41, 2921-40	12.5	303
891	Selection of slow growing organisms as a means for improving aerobic granular sludge stability. *Water Science and Technology*, **2004**, 49, 9-17	2.2	301

890	Activated Sludge Model No. 3. *Water Science and Technology*, **1999**, 39, 183-193	2.2	300
889	Stoichiometric model of the aerobic metabolism of the biological phosphorus removal process. *Biotechnology and Bioengineering*, **1994**, 44, 837-48	4.9	300
888	The sharon process: An innovative method for nitrogen removal from ammonium-rich waste water. *Water Science and Technology*, **1998**, 37, 135	2.2	299
887	Importance of bacterial storage polymers in bioprocesses. *Water Science and Technology*, **1997**, 35, 41-47	2.2	298
886	Production of polyhydroxyalkanoates by mixed culture: recent trends and biotechnological importance. *Biotechnology Advances*, **2004**, 22, 261-79	17.8	294
885	Individual-based modelling of biofilms. *Microbiology (United Kingdom)*, **2001**, 147, 2897-912	2.9	292
884	Phosphorus and nitrogen removal with minimal COD requirement by integration of denitrifying dephosphatation and nitrification in a two-sludge system. *Water Research*, **1996**, 30, 1702-1710	12.5	292
883	Enrichment of a mixed bacterial culture with a high polyhydroxyalkanoate storage capacity. *Biomacromolecules*, **2009**, 10, 670-6	6.9	287
882	Physiological and kinetic characterization of a suspended cell anammox culture. *Water Research*, **2014**, 60, 1-14	12.5	272
881	The Relevance of Phosphorus and Iron Chemistry to the Recovery of Phosphorus from Wastewater: A Review. *Environmental Science & Technology*, **2015**, 49, 9400-14	10.3	271
880	Two-dimensional model of biofilm detachment caused by internal stress from liquid flow. *Biotechnology and Bioengineering*, **2001**, 72, 205-218	4.9	268
879	Potential soil reinforcement by biological denitrification. *Ecological Engineering*, **2010**, 36, 168-175	3.9	263
878	Towards a more sustainable municipal wastewater treatment system. *Water Science and Technology*, **1997**, 35, 171-180	2.2	256
877	Biofouling of spiral-wound nanofiltration and reverse osmosis membranes: a feed spacer problem. *Water Research*, **2009**, 43, 583-94	12.5	248
876	Activated Sludge Model No. 3. *Water Science and Technology*, **1999**, 39, 183	2.2	242
875	Particle-based multidimensional multispecies biofilm model. *Applied and Environmental Microbiology*, **2004**, 70, 3024-40	4.8	240
874	Mechanisms and specific directionality of autotrophic nitrous oxide and nitric oxide generation during transient anoxia. *Environmental Science & Technology*, **2010**, 44, 1313-9	10.3	235
873	The effect of nitrite inhibition on the anammox process. *Water Research*, **2012**, 46, 2559-69	12.5	232

872	Biological Phosphorus Removal from Wastewater by Anaerobic-Anoxic Sequencing Batch Reactor. *Water Science and Technology*, **1993**, 27, 241-252	2.2	232
871	Modeling the PAO-GAO competition: effects of carbon source, pH and temperature. *Water Research*, **2009**, 43, 450-62	12.5	230
870	Nitrogen removal by a nitritation-anammox bioreactor at low temperature. *Applied and Environmental Microbiology*, **2013**, 79, 2807-12	4.8	228
869	A review of biological sulfate conversions in wastewater treatment. *Water Research*, **2014**, 65, 1-21	12.5	224
868	Nitrification expanded: discovery, physiology and genomics of a nitrite-oxidizing bacterium from the phylum Chloroflexi. *ISME Journal*, **2012**, 6, 2245-56	11.9	216
867	Effect of dynamic process conditions on nitrogen oxides emission from a nitrifying culture. *Environmental Science & Technology*, **2008**, 42, 429-35	10.3	216
866	Anaerobic digestion without biogas?. *Reviews in Environmental Science and Biotechnology*, **2015**, 14, 787-801	8.9	214
865	Simultaneous nitrogen and phosphate removal in aerobic granular sludge reactors operated at different temperatures. *Water Research*, **2012**, 46, 3805-16	12.5	214
864	Aerobic granular sludge--state of the art. *Water Science and Technology*, **2007**, 55, 75-81	2.2	210
863	Production of polyhydroxyalkanoates by mixed microbial cultures. *Bioprocess and Biosystems Engineering*, **2003**, 25, 377-85	3.7	205
862	Methane emission during municipal wastewater treatment. *Water Research*, **2012**, 46, 3657-70	12.5	204
861	Hydrophobic and electrostatic parameters in bacterial adhesion. *Aquatic Sciences*, **1990**, 52, 103-114	2.5	201
860	A thermodynamically based correlation for maintenance gibbs energy requirements in aerobic and anaerobic chemotrophic growth. *Biotechnology and Bioengineering*, **1993**, 42, 509-19	4.9	200
859	Simultaneous partial nitritation and anammox at low temperature with granular sludge. *Water Research*, **2014**, 66, 111-121	12.5	198
858	Long term effects of salt on activity, population structure and floc characteristics in enriched bacterial cultures of nitrifiers. *Water Research*, **2006**, 40, 1377-88	12.5	198
857	Sensitivity analysis of a biofilm model describing a one-stage completely autotrophic nitrogen removal (CANON) process. *Biotechnology and Bioengineering*, **2002**, 77, 266-77	4.9	198
856	Poly-beta-hydroxybutyrate metabolism in dynamically fed mixed microbial cultures. *Water Research* , **2002**, 36, 1167-80	12.5	197
855	Metabolic model for glycogen-accumulating organisms in anaerobic/aerobic activated sludge systems. *Biotechnology and Bioengineering*, **2003**, 81, 92-105	4.9	196

854	Pilot-scale evaluation of anammox-based mainstream nitrogen removal from municipal wastewater. *Environmental Technology (United Kingdom)*, **2015**, 36, 1167-77	2.6	194
853	Monitoring microbiological changes in drinking water systems using a fast and reproducible flow cytometric method. *Water Research*, **2013**, 47, 7131-42	12.5	192
852	Effect of diffusive and convective substrate transport on biofilm structure formation: a two-dimensional modeling study. *Biotechnology and Bioengineering*, **2000**, 69, 504-15	4.9	192
851	Experience with guidelines for wastewater characterisation in The Netherlands. *Water Science and Technology*, **2002**, 45, 77-87	2.2	191
850	Characterization of alginate-like exopolysaccharides isolated from aerobic granular sludge in pilot-plant. *Water Research*, **2010**, 44, 3355-64	12.5	190
849	Activated Sludge Model No.2d, ASM2d. *Water Science and Technology*, **1999**, 39, 165	2.2	189
848	Biological Stability of Drinking Water: Controlling Factors, Methods, and Challenges. *Frontiers in Microbiology*, **2016**, 7, 45	5.7	183
847	Formation of aerobic granules and conversion processes in an aerobic granular sludge reactor at moderate and low temperatures. *Water Research*, **2005**, 39, 4476-84	12.5	181
846	Upgrading of sewage treatment plant by sustainable and cost-effective separate treatment of industrial wastewater. *Water Science and Technology*, **2010**, 61, 1715-22	2.2	179
845	Short-term adhesion and long-term biofouling testing of polydopamine and poly(ethylene glycol) surface modifications of membranes and feed spacers for biofouling control. *Water Research*, **2012**, 46, 3737-53	12.5	178
844	Influence of dissolved oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. *Biotechnology and Bioengineering*, **1997**, 53, 168-78	4.9	178
843	Quantitative biofouling diagnosis in full scale nanofiltration and reverse osmosis installations. *Water Research*, **2008**, 42, 4856-68	12.5	178
842	Formation and growth of heterotrophic aerobic biofilms on small suspended particles in airlift reactors. *Biotechnology and Bioengineering*, **1994**, 44, 595-608	4.9	176
841	Anammox growth on pretreated municipal wastewater. *Environmental Science & Technology*, **2014**, 48, 7874-80	10.3	174
840	Phototrophic biofilms and their potential applications. *Journal of Applied Phycology*, **2008**, 20, 227-235	3.2	171
839	Modeling product formation in anaerobic mixed culture fermentations. *Biotechnology and Bioengineering*, **2006**, 93, 592-606	4.9	171
838	Effects of oxygen concentration on N-removal in an aerobic granular sludge reactor. *Water Research*, **2005**, 39, 2676-86	12.5	169
837	Model-based evaluation of temperature and inflow variations on a partial nitrification-ANAMMOX biofilm process. *Water Research*, **2002**, 36, 4839-49	12.5	167

836	Microbiological conversions in nitrogen removal. *Water Science and Technology*, **1998**, 38, 1-7	2.2	166
835	Effect of nitrite on phosphate uptake by phosphate accumulating organisms. *Water Research*, **2004**, 38, 3760-8	12.5	165
834	Influence of the pH on (open) mixed culture fermentation of glucose: a chemostat study. *Biotechnology and Bioengineering*, **2007**, 98, 69-79	4.9	163
833	Respirometric measurement of kinetic parameters: effect of activated sludge floc size. *Water Science and Technology*, **2003**, 48, 61-68	2.2	161
832	A new combined differential-discrete cellular automaton approach for biofilm modeling: Application for growth in gel beads. *Biotechnology and Bioengineering*, **1998**, 57, 718-731	4.9	160
831	Influence of biomass production and detachment forces on biofilm structures in a biofilm airlift suspension reactor. *Biotechnology and Bioengineering*, **1998**, 58, 400-7	4.9	160
830	Looking beyond struvite for P-recovery. *Environmental Science & Technology*, **2013**, 47, 4965-6	10.3	159
829	Integration of anammox into the aerobic granular sludge process for main stream wastewater treatment at ambient temperatures. *Water Research*, **2012**, 46, 136-44	12.5	157
828	A novel sulfate reduction, autotrophic denitrification, nitrification integrated (SANI) process for saline wastewater treatment. *Water Research*, **2009**, 43, 2363-72	12.5	154
827	Waste to resource: Converting paper mill wastewater to bioplastic. *Water Research*, **2012**, 46, 5517-5530	12.5	153
826	A structured metabolic model for anaerobic and aerobic stoichiometry and kinetics of the biological phosphorus removal process. *Biotechnology and Bioengineering*, **1995**, 47, 277-87	4.9	153
825	Stoichiometry and kinetics of poly-beta-hydroxybutyrate metabolism in aerobic, slow growing, activated sludge cultures. *Biotechnology and Bioengineering*, **2000**, 67, 379-89	4.9	151
824	Model Based Design of a Novel Process for Nitrogen Removal from Concentrated Flows. *Mathematical and Computer Modelling of Dynamical Systems*, **1999**, 5, 351-371	1	151
823	N-removal in a granular sludge sequencing batch airlift reactor. *Biotechnology and Bioengineering*, **2001**, 75, 82-92	4.9	150
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821	Model based evaluation of the effect of pH and electrode geometry on microbial fuel cell performance. *Bioelectrochemistry*, **2010**, 78, 8-24	5.6	148
820	Mathematical modelling of biofilm structures. *Antonie Van Leeuwenhoek*, **2002**, 81, 245-56	2.1	148
819	A framework for multidimensional modelling of activity and structure of multispecies biofilms. *Environmental Microbiology*, **2005**, 7, 1085-103	5.2	147

818	1994-2004: 10 years of research on the anaerobic oxidation of ammonium. *Biochemical Society Transactions*, **2005**, 33, 119-23	5.1	143
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816	Biofilm-control strategies based on enzymic disruption of the extracellular polymeric substance matrix--a modelling study. *Microbiology (United Kingdom)*, **2005**, 151, 3817-3832	2.9	140
815	Effect of different operational conditions on biofilm development, nitrification, and nitrifying microbial population in moving-bed biofilm reactors. *Environmental Science & Technology*, **2012** , 46, 1546-55	10.3	139
814	Effect of nitrate on phosphorus release in biological phosphorus removal systems. *Water Science and Technology*, **1994**, 30, 263-269	2.2	139
813	Extracellular polymeric substances of biofilms: Suffering from an identity crisis. *Water Research*, **2019**, 151, 1-7	12.5	138
812	Nitrous oxide production by lithotrophic ammonia-oxidizing bacteria and implications for engineered nitrogen-removal systems. *Biochemical Society Transactions*, **2011**, 39, 1832-7	5.1	137
811	Review of mass transfer aspects for biological gas treatment. *Applied Microbiology and Biotechnology*, **2011**, 91, 873-86	5.7	137
810	Occurrence of denitrifying phosphorus removing bacteria in modified UCT-type wastewater treatment plants. *Water Research*, **1997**, 31, 777-786	12.5	137
809	A sludge characterization assay for aerobic and denitrifying phosphorus removing sludge. *Water Research*, **1997**, 31, 471-478	12.5	136
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807	Influence of temperature and pH on the kinetics of the Sharon nitritation process. *Journal of Chemical Technology and Biotechnology*, **2007**, 82, 471-480	3.5	136
806	Effect of temperature change on anammox activity. *Biotechnology and Bioengineering*, **2015**, 112, 98-103	4.9	134
805	Aerobic sludge granulation: a tale of two polysaccharides?. *Water Research*, **2012**, 46, 4803-13	12.5	133
804	Biofilm structures. *Water Science and Technology*, **1995**, 32, 35-43	2.2	133
803	Methane and nitrous oxide emissions from municipal wastewater treatment - results from a long-term study. *Water Science and Technology*, **2013**, 67, 2350-5	2.2	132
802	An integrated metabolic model for the aerobic and denitrifying biological phosphorus removal. *Biotechnology and Bioengineering*, **1997**, 54, 434-50	4.9	132
801	Three-dimensional biofilm model with individual cells and continuum EPS matrix. *Biotechnology and Bioengineering*, **2006**, 94, 961-79	4.9	131

800	A critical review of resource recovery from municipal wastewater treatment plants □market supply potentials, technologies and bottlenecks. *Environmental Science: Water Research and Technology*, **2020**, 6, 877-910	4.2	130
799	Fatty acids production from hydrogen and carbon dioxide by mixed culture in the membrane biofilm reactor. *Water Research*, **2013**, 47, 6122-9	12.5	130
798	Faster through training: The anammox case. *Water Research*, **2015**, 81, 261-8	12.5	130
797	Modelling the effect of oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. *Water Science and Technology*, **1997**, 36, 147-156	2.2	130
796	Novel principles in the microbial conversion of nitrogen compounds. *Antonie Van Leeuwenhoek*, **1997**, 71, 75-93	2.1	130
795	Struvite formation, analytical methods and effects of pH and Ca2+. *Water Science and Technology*, **2008**, 58, 1687-92	2.2	129
794	Stability of aerobic granules during long-term bioreactor operation. *Biotechnology Advances*, **2018**, 36, 228-246	17.8	128
793	Pressure drop increase by biofilm accumulation in spiral wound RO and NF membrane systems: role of substrate concentration, flow velocity, substrate load and flow direction. *Biofouling*, **2009**, 25, 543-55	3.3	127
792	A New Deterministic Spatio-Temporal Continuum Model for Biofilm Development. *Journal of Theoretical Medicine*, **2001**, 3, 161-175		127
791	Discovery of extremely halophilic, methyl-reducing euryarchaea provides insights into the evolutionary origin of methanogenesis. *Nature Microbiology*, **2017**, 2, 17081	26.6	126
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787	Influence of the C/N ratio on the performance of polyhydroxybutyrate (PHB) producing sequencing batch reactors at short SRTs. *Water Research*, **2010**, 44, 2141-52	12.5	125
786	Full-scale granular sludge Anammox process. *Water Science and Technology*, **2007**, 55, 27-33	2.2	125
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784	A Generalized Method for Thermodynamic State Analysis of Environmental Systems. *Critical Reviews in Environmental Science and Technology*, **2010**, 40, 1-54	11.1	123
783	Formation of Aerobic Granules with Domestic Sewage. *Journal of Environmental Engineering, ASCE*, **2006**, 132, 694-697	2	123

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780	Behavior of polymeric substrates in an aerobic granular sludge system. *Water Research*, **2010**, 44, 5929-38	12.5	119
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778	Effect of different salt adaptation strategies on the microbial diversity, activity, and settling of nitrifying sludge in sequencing batch reactors. *Applied Microbiology and Biotechnology*, **2012**, 93, 1281-94	5.7	118
777	Uncertainty analysis in WWTP model applications: a critical discussion using an example from design. *Water Research*, **2009**, 43, 2894-906	12.5	118
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775	Kinetic model of a granular sludge SBR: influences on nutrient removal. *Biotechnology and Bioengineering*, **2007**, 97, 801-15	4.9	118
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770	Emission of nitrous oxide and nitric oxide from a full-scale single-stage nitritation-anammox reactor. *Water Science and Technology*, **2009**, 60, 3211-7	2.2	116
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765	Particle-based biofilm reactor technology. *Trends in Biotechnology*, **2000**, 18, 312-20	15.1	113

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761	A theoretical study on the effect of surface roughness on mass transport and transformation in biofilms. *Biotechnology and Bioengineering*, **2000**, 68, 355-69	4.9	112
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759	Global sensitivity analysis in wastewater treatment plant model applications: prioritizing sources of uncertainty. *Water Research*, **2011**, 45, 639-51	12.5	111
758	Full-scale application of the SHARON process for treatment of rejection water of digested sludge dewatering. *Water Science and Technology*, **2001**, 43, 127-134	2.2	111
757	Substrate flux into storage and growth in relation to activated sludge modeling. *Water Research*, **1999**, 33, 3149-3161	12.5	111
756	Vivianite as the main phosphate mineral in digested sewage sludge and its role for phosphate recovery. *Water Research*, **2018**, 144, 312-321	12.5	109
755	Unravelling the reasons for disproportion in the ratio of AOB and NOB in aerobic granular sludge. *Applied Microbiology and Biotechnology*, **2012**, 94, 1657-66	5.7	109
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752	Modelling biological phosphorus and nitrogen removal in a full scale activated sludge process. *Water Research*, **1999**, 33, 3459-3468	12.5	107
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750	The chemical and mechanical differences between alginate-like exopolysaccharides isolated from aerobic flocculent sludge and aerobic granular sludge. *Water Research*, **2013**, 47, 57-65	12.5	105
749	Evaluating the main and side effects of high salinity on aerobic granular sludge. *Applied Microbiology and Biotechnology*, **2014**, 98, 1339-48	5.7	105
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746	Effects of the residual ammonium concentration on NOB repression during partial nitritation with granular sludge. *Water Research*, **2016**, 106, 518-530	12.5	104
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