Mark van Loosdrecht

List of Publications by Year
in descending order

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933 papers	82,490 citations	219 146 h-index	1048 234 g-index
971 all docs	971 docs citations	971 times ranked	30168 citing authors

#	Article	IF	Citations
1	Full-scale partial nitritation/anammox experiences â€“ An application survey. Water Research, 2014, 55, 292-303.	5.3	1,401
2	Microplastics in wastewater treatment plants: Detection, occurrence and removal. Water Research, 2019, 152, 21-37.	5.3	1,069
3	Nitrous oxide emission during wastewater treatment. Water Research, 2009, 43, 4093-4103.	5.3	1,032
4	Sewage Treatment with Anammox. Science, 2010, 328, 702-703.	6.0	989
5	Startup of reactors for anoxic ammonium oxidation: Experiences from the first full-scale anammox reactor in Rotterdam. Water Research, 2007, 41, 4149-4163.	5.3	983
6	Microbiology and biochemistry of the enhanced biological phosphate removal process. Water Research, 1998, 32, 3193-3207.	5.3	845
7	The role of bacterial cell wall hydrophobicity in adhesion. Applied and Environmental Microbiology, 1987, 53, 1893-1897.	1.4	809
8	Activated Sludge Model No. 3. Water Science and Technology, 1999, 39, 183.	1.2	759
9	Model of the anaerobic metabolism of the biological phosphorus removal process: Stoichiometry and pH influence. Biotechnology and Bioengineering, 1994, 43, 461-470.	1.7	733
10	Aerobic granulation in a sequencing batch reactor. Water Research, 1999, 33, 2283-2290.	5.3	663
11	The anaerobic oxidation of ammonium. FEMS Microbiology Reviews, 1998, 22, 421-437.	3.9	660
12	Electrophoretic mobility and hydrophobicity as a measured to predict the initial steps of bacterial adhesion. Applied and Environmental Microbiology, 1987, 53, 1898-1901.	1.4	658
13	Quantifying Biomediated Ground Improvement by Ureolysis: Large-Scale Biogrout Experiment. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1721-1728.	1.5	656
14	Activated Sludge Model No.2d, ASM2D. Water Science and Technology, 1999, 39, 165-182.	1.2	637
15	Mainstream partial nitritationâ€“anammox in municipal wastewater treatment: status, bottlenecks, and further studies. Applied Microbiology and Biotechnology, 2017, 101, 1365-1383.	1.7	584
16	Full scale performance of the aerobic granular sludge process for sewage treatment. Water Research, 2015, 84, 207-217.	5.3	548
17	Anticipating the next century of wastewater treatment. Science, 2014, 344, 1452-1453.	6.0	539
18	Microbiology and application of the anaerobic ammonium oxidation (â€˜anammoxâ€™) process. Current Opinion in Biotechnology, 2001, 12, 283-288.	3.3	534

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19	Fixation and distribution of bacterial activity in sand to induce carbonate precipitation for ground reinforcement. Ecological Engineering, 2010, 36, 112-117.	1.6	523
20	Mixed culture biotechnology for bioenergy production. Current Opinion in Biotechnology, 2007, 18, 207-212.	3.3	517
21	Simultaneous COD, nitrogen, and phosphate removal by aerobic granular sludge. Biotechnology and Bioengineering, 2005, 90, 761-769.	1.7	507
22	Aerobic granular sludge in a sequencing batch reactor. Water Research, 1997, 31, 3191-3194.	5.3	499
23	Bacterial adhesion: A physicochemical approach. Microbial Ecology, 1989, 17, 1-15.	1.4	466
24	Filamentous bulking sludgeâ€"a critical review. Water Research, 2004, 38, 793-817.	5.3	464
25	The membrane bioreactor: A novel tool to grow anammox bacteria as free cells. Biotechnology and Bioengineering, 2008, 101, 286-294.	1.7	458
26	The sharon process: an innovative method for nitrogen removal from ammonium-rich waste water. Water Science and Technology, 1998, 37, 135-142.	1.2	440
27	Biological Wastewater Treatment: Principles, Modelling and Design. , 2008, , .		432
28	The sharon process: An innovative method for nitrogen removal from ammonium-rich waste water. Water Science and Technology, 1998, 37, 135.	1.2	420
29	A New Planning and Design Paradigm to Achieve Sustainable Resource Recovery from Wastewater. Environmental Science & Technology, 2009, 43, 6126-6130.	4.6	412
30	Mathematical modeling of biofilm structure with a hybrid differential-discrete cellular automaton approach. , 1998, 58, 101-116.		402
31	Dynamics of nitric oxide and nitrous oxide emission during full-scale reject water treatment. Water Research, 2008, 42, 812-826.	5.3	394
32	Wastewater treatment with particulate biofilm reactors. Journal of Biotechnology, 2000, 80, 1-33.	1.9	389
33	Activated sludge wastewater treatment plant modelling and simulation: state of the art. Environmental Modelling and Software, 2004, 19, 763-783.	1.9	388
34	Phosphate and potassium recovery from source separated urine through struvite precipitation. Water Research, 2007, 41, 458-466.	5.3	383
35	The Relevance of Phosphorus and Iron Chemistry to the Recovery of Phosphorus from Wastewater: A Review. Environmental Science & Technology, 2015, 49, 9400-9414.	4.6	383
36	Selection of slow growing organisms as a means for improving aerobic granular sludge stability. Water Science and Technology, 2004, 49, 9-17.	1.2	382

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37	A computational model for biofilm-based microbial fuel cells. Water Research, 2007, 41, 2921-2940.	5.3	381
38	Stoichiometric model of the aerobic metabolism of the biological phosphorus removal process. Biotechnology and Bioengineering, 1994, 44, 837-848.	1.7	368
39	Aerobic granulation in a sequencing batch airlift reactor. Water Research, 2002, 36, 702-712.	5.3	365
40	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.	5.3	362
41	Physiological and kinetic characterization of a suspended cell anammox culture. Water Research, 2014, 60, 1-14.	5.3	361
42	Individual-based modelling of biofilms. Microbiology (United Kingdom), 2001, 147, 2897-2912.	0.7	360
43	Importance of bacterial storage polymers in bioprocesses. Water Science and Technology, 1997, 35, 41-47.	1.2	355
44	Activated Sludge Model No. 3. Water Science and Technology, 1999, 39, 183-193.	1.2	354
45	Production of polyhydroxyalkanoates by mixed culture: recent trends and biotechnological importance. Biotechnology Advances, 2004, 22, 261-279.	6.0	348
46	Nitrification expanded: discovery, physiology and genomics of a nitrite-oxidizing bacterium from the phylum Chloroflexi. ISME Journal, 2012, 6, 2245-2256.	4.4	345
47	Enrichment of a Mixed Bacterial Culture with a High Polyhydroxyalkanoate Storage Capacity. Biomacromolecules, 2009, 10, 670-676.	2.6	342
48	Potential soil reinforcement by biological denitrification. Ecological Engineering, 2010, 36, 168-175.	1.6	341
49	Modeling the PAOâ€“GAO competition: Effects of carbon source, pH and temperature. Water Research, 2009, 43, 450-462.	5.3	309
50	Two-dimensional model of biofilm detachment caused by internal stress from liquid flow. Biotechnology and Bioengineering, 2001, 72, 205-218.	1.7	299
51	A review of biological sulfate conversions in wastewater treatment. Water Research, 2014, 65, 1-21.	5.3	299
52	Towards a more sustainable municipal wastewater treatment system. Water Science and Technology, 1997, 35, 171-180.	1.2	294
53	Biological Stability of Drinking Water: Controlling Factors, Methods, and Challenges. Frontiers in Microbiology, 2016, 7, 45.	1.5	287
54	Biological Phosphorus Removal from Wastewater by Anaerobic-Anoxic Sequencing Batch Reactor. Water Science and Technology, 1993, 27, 241-252.	1.2	284

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55	Biofouling of spiral-wound nanofiltration and reverse osmosis membranes: A feed spacer problem. Water Research, 2009, 43, 583-594.	5.3	283
56	The effect of nitrite inhibition on the anammox process. Water Research, 2012, 46, 2559-2569.	5.3	281
57	Mechanisms and Specific Directionality of Autotrophic Nitrous Oxide and Nitric Oxide Generation during Transient Anoxia. Environmental Science & Technology, 2010, 44, 1313-1319.	4.6	280
58	Activated Sludge Model No.2d, ASM2d. Water Science and Technology, 1999, 39, 165.	1.2	273
59	Particle-Based Multidimensional Multispecies Biofilm Model. Applied and Environmental Microbiology, 2004, 70, 3024-3040.	1.4	273
60	Anaerobic digestion without biogas?. Reviews in Environmental Science and Biotechnology, 2015, 14, 787-801.	3.9	265
61	Methane emission during municipal wastewater treatment. Water Research, 2012, 46, 3657-3670.	5.3	263
62	Aerobic granular sludge â€“ state of the art. Water Science and Technology, 2007, 55, 75-81.	1.2	260
63	Characterization of alginate-like exopolysaccharides isolated from aerobic granular sludge in pilot-plant. Water Research, 2010, 44, 3355-3364.	5.3	259
64	Nitrogen Removal by a Nitritation-Anammox Bioreactor at Low Temperature. Applied and Environmental Microbiology, 2013, 79, 2807-2812.	1.4	258
65	Metabolic model for glycogen-accumulating organisms in anaerobic/aerobic activated sludge systems. Biotechnology and Bioengineering, 2003, 81, 92-105.	1.7	251
66	Effect of Dynamic Process Conditions on Nitrogen Oxides Emission from a Nitrifying Culture. Environmental Science & Technology, 2008, 42, 429-435.	4.6	250
67	Monitoring microbiological changes in drinking water systems using a fast and reproducible flow cytometric method. Water Research, 2013, 47, 7131-7142.	5.3	250
68	An omics-based framework for assessing the health risk of antimicrobial resistance genes. Nature Communications, 2021, 12, 4765.	5.8	248
69	Production of polyhydroxyalkanoates by mixed microbial cultures. Bioprocess and Biosystems Engineering, 2003, 25, 377-385.	1.7	247
70	Simultaneous nitrogen and phosphate removal in aerobic granular sludge reactors operated at different temperatures. Water Research, 2012, 46, 3805-3816.	5.3	246
71	A thermodynamically based correlation for maintenance gibbs energy requirements in aerobic and anaerobic chemotrophic growth. Biotechnology and Bioengineering, 1993, 42, 509-519.	1.7	245
72	Simultaneous partial nitritation and anammox at low temperature with granular sludge. Water Research, 2014, 66, 111-121.	5.3	244

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73	Pilot-scale evaluation of anammox-based mainstream nitrogen removal from municipal wastewater. Environmental Technology (United Kingdom), 2015, 36, 1167-1177.	1.2	241
74	Long term effects of salt on activity, population structure and floc characteristics in enriched bacterial cultures of nitrifiers. Water Research, 2006, 40, 1377-1388.	5.3	237
75	Experience with guidelines for wastewater characterisation in The Netherlands. Water Science and Technology, 2002, 45, 77-87.	1.2	230
76	Extracellular polymeric substances of biofilms: Suffering from an identity crisis. Water Research, 2019, 151, 1-7.	5.3	228
77	A critical review of resource recovery from municipal wastewater treatment plants â€“ market supply potentials, technologies and bottlenecks. Environmental Science: Water Research and Technology, 2020, 6, 877-910.	1.2	228
78	Poly-Î²-hydroxybutyrate metabolism in dynamically fed mixed microbial cultures. Water Research, 2002, 36, 1167-1180.	5.3	227
79	Effect of diffusive and convective substrate transport on biofilm structure formation: A two-dimensional modeling study. Biotechnology and Bioengineering, 2000, 69, 504-515.	1.7	224
80	Hydrophobic and electrostatic parameters in bacterial adhesion. Aquatic Sciences, 1990, 52, 103-114.	0.6	223
81	Influence of dissolved oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. Biotechnology and Bioengineering, 1997, 53, 168-178.	1.7	220
82	Stability of aerobic granules during long-term bioreactor operation. Biotechnology Advances, 2018, 36, 228-246.	6.0	218
83	Formation of aerobic granules and conversion processes in an aerobic granular sludge reactor at moderate and low temperatures. Water Research, 2005, 39, 4476-4484.	5.3	217
84	Sensitivity analysis of a biofilm model describing a one-stage completely autotrophic nitrogen removal (CANON) process. Biotechnology and Bioengineering, 2002, 77, 266-277.	1.7	216
85	Discovery of extremely halophilic, methyl-reducing euryarchaea provides insights into the evolutionary origin of methanogenesis. Nature Microbiology, 2017, 2, 17081.	5.9	213
86	Adsorption as a technology to achieve ultra-low concentrations of phosphate: Research gaps and economic analysis. Water Research X, 2019, 4, 100029.	2.8	210
87	Phototrophic biofilms and their potential applications. Journal of Applied Phycology, 2008, 20, 227-235.	1.5	208
88	Quantitative biofouling diagnosis in full scale nanofiltration and reverse osmosis installations. Water Research, 2008, 42, 4856-4868.	5.3	207
89	Towards a more sustainable municipal wastewater treatment system. Water Science and Technology, 1997, 35, 171.	1.2	206
90	Upgrading of sewage treatment plant by sustainable and cost-effective separate treatment of industrial wastewater. Water Science and Technology, 2010, 61, 1715-1722.	1.2	205

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91	Formation and growth of heterotrophic aerobic biofilms on small suspended particles in airlift reactors. Biotechnology and Bioengineering, 1994, 44, 595-608.	1.7	204
92	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, 3737-3753.	5.3	204
93	Looking Beyond Struvite for P-Recovery. Environmental Science & Technology, 2013, 47, 4965-4966.	4.6	204
94	Anammox Growth on Pretreated Municipal Wastewater. Environmental Science & Technology, 2014, 48, 7874-7880.	4.6	201
95	Influence of biomass production and detachment forces on biofilm structures in a biofilm airlift suspension reactor. , 1998, 58, 400-407.		198
96	Model Based Design of a Novel Process for Nitrogen Removal from Concentrated Flows. Mathematical and Computer Modelling of Dynamical Systems, 1999, 5, 351-371.	1.4	198
97	Effects of oxygen concentration on N-removal in an aerobic granular sludge reactor. Water Research, 2005, 39, 2676-2686.	5.3	198
98	A framework for multidimensional modelling of activity and structure of multispecies biofilms. Environmental Microbiology, 2005, 7, 1085-1103.	1.8	197
99	Performance of aerobic granular sludge in a sequencing batch bioreactor exposed to ofloxacin, norfloxacin and ciprofloxacin. Water Research, 2014, 50, 101-113.	5.3	197
100	Modeling product formation in anaerobic mixed culture fermentations. Biotechnology and Bioengineering, 2006, 93, 592-606.	1.7	196
101	Influence of the pH on (open) mixed culture fermentation of glucose: A chemostat study. Biotechnology and Bioengineering, 2007, 98, 69-79.	1.7	193
102	Effect of nitrite on phosphate uptake by phosphate accumulating organisms. Water Research, 2004, 38, 3760-3768.	5.3	192
103	Chemical characterization methods for the analysis of structural extracellular polymeric substances (EPS). Water Research, 2019, 157, 201-208.	5.3	192
104	Integration of anammox into the aerobic granular sludge process for main stream wastewater treatment at ambient temperatures. Water Research, 2012, 46, 136-144.	5.3	191
105	A structured metabolic model for anaerobic and aerobic stoichiometry and kinetics of the biological phosphorus removal process. Biotechnology and Bioengineering, 1995, 47, 277-287.	1.7	190
106	Model-based evaluation of temperature and inflow variations on a partial nitrificationâ€“ANAMMOX biofilm process. Water Research, 2002, 36, 4839-4849.	5.3	187
107	Model based evaluation of the effect of pH and electrode geometry on microbial fuel cell performance. Bioelectrochemistry, 2010, 78, 8-24.	2.4	186
108	Vivianite as the main phosphate mineral in digested sewage sludge and its role for phosphate recovery. Water Research, 2018, 144, 312-321.	5.3	186

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109	A novel sulfate reduction, autotrophic denitrification, nitrification integrated (SANI) process for saline wastewater treatment. Water Research, 2009, 43, 2363-2372.	5.3	185
110	Effect of pore size distribution and particle size of porous metal oxides on phosphate adsorption capacity and kinetics. Chemical Engineering Journal, 2019, 358, 160-169.	6.6	184
111	A new combined differential-discrete cellular automaton approach for biofilm modeling: Application for growth in gel beads. Biotechnology and Bioengineering, 1998, 57, 718-731.	1.7	180
112	Methane and nitrous oxide emissions from municipal wastewater treatment â€“ results from a long-term study. Water Science and Technology, 2013, 67, 2350-2355.	1.2	180
113	Stoichiometry and kinetics of poly-Î²-hydroxybutyrate metabolism in aerobic, slow growing, activated sludge cultures. , 2000, 67, 379-389.		179
114	Biological sulfur oxidation in wastewater treatment: A review of emerging opportunities. Water Research, 2018, 143, 399-415.	5.3	178
115	N-Removal in a granular sludge sequencing batch airlift reactor. Biotechnology and Bioengineering, 2001, 75, 82-92.	1.7	177
116	Aerobic sludge granulation: A tale of two polysaccharides?. Water Research, 2012, 46, 4803-4813.	5.3	177
117	Faster through training: The anammox case. Water Research, 2015, 81, 261-268.	5.3	177
118	Waste to resource: Converting paper mill wastewater to bioplastic. Water Research, 2012, 46, 5517-5530.	5.3	176
119	Aerobic granular sludge technology: an alternative to activated sludge?. Water Science and Technology, 2004, 49, 1-7.	1.2	175
120	Biofilm-control strategies based on enzymic disruption of the extracellular polymeric substance matrix â€“ a modelling study. Microbiology (United Kingdom), 2005, 151, 3817-3832.	0.7	175
121	Microbiological conversions in nitrogen removal. Water Science and Technology, 1998, 38, 1-7.	1.2	174
122	Influence of temperature and pH on the kinetics of the Sharon nitritation process. Journal of Chemical Technology and Biotechnology, 2007, 82, 471-480.	1.6	174
123	Effect of Different Operational Conditions on Biofilm Development, Nitrification, and Nitrifying Microbial Population in Moving-Bed Biofilm Reactors. Environmental Science & Technology, 2012, 46, 1546-1555.	4.6	174
124	Effect of nitrate on phosphorus release in biological phosphorus removal systems. Water Science and Technology, 1994, 30, 263-269.	1.2	173
125	Respirometric measurement of kinetic parameters: effect of activated sludge floc size. Water Science and Technology, 2003, 48, 61-68.	1.2	171
126	Feasibility analysis of anaerobic digestion of excess sludge enhanced by iron: A review. Renewable and Sustainable Energy Reviews, 2018, 89, 16-26.	8.2	171

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127	An integrated metabolic model for the aerobic and denitrifying biological phosphorus removal. , 1997, 54, 434-450.		170
128	Mathematical modelling of biofilm structures. Antonie Van Leeuwenhoek, 2002, 81, 245-256.	0.7	170
129	Factors affecting the microbial populations at full-scale enhanced biological phosphorus removal (EBPR) wastewater treatment plants in The Netherlands. Water Research, 2008, 42, 2349-2360.	5.3	170
130	Novel principles in the microbial conversion of nitrogen compounds. Antonie Van Leeuwenhoek, 1997, 71, 75-93.	0.7	167
131	Outcompeting nitrite-oxidizing bacteria in single-stage nitrogen removal in sewage treatment plants: A model-based study. Water Research, 2014, 66, 208-218.	5.3	167
132	Three-dimensional biofilm model with individual cells and continuum EPS matrix. Biotechnology and Bioengineering, 2006, 94, 961-979.	1.7	164
133	Struvite formation, analytical methods and effects of pH and Ca2â€‰+. Water Science and Technology, 2008, 58, 1687-1692.	1.2	164
134	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, 543-555.	0.8	164
135	A Generalized Method for Thermodynamic State Analysis of Environmental Systems. Critical Reviews in Environmental Science and Technology, 2010, 40, 1-54.	6.6	164
136	Fatty acids production from hydrogen and carbon dioxide by mixed culture in the membrane biofilm reactor. Water Research, 2013, 47, 6122-6129.	5.3	164
137	1994â€“2004: 10Âyears of research on the anaerobic oxidation of ammonium. Biochemical Society Transactions, 2005, 33, 119-123.	1.6	163
138	Effect of temperature change on anammox activity. Biotechnology and Bioengineering, 2015, 112, 98-103.	1.7	163
139	Review of mass transfer aspects for biological gas treatment. Applied Microbiology and Biotechnology, 2011, 91, 873-886.	1.7	162
140	Occurrence of denitrifying phosphorus removing bacteria in modified UCT-type wastewater treatment plants. Water Research, 1997, 31, 777-786.	5.3	161
141	Nitrous oxide production by lithotrophic ammonia-oxidizing bacteria and implications for engineered nitrogen-removal systems. Biochemical Society Transactions, 2011, 39, 1832-1837.	1.6	160
142	Cooperation between Candidatus Competibacter and Candidatus Accumulibacter clade I, in denitrification and phosphate removal processes. Water Research, 2017, 120, 156-164.	5.3	160
143	Segregation of Biomass in Cyclic Anaerobic/Aerobic Granular Sludge Allows the Enrichment of Anaerobic Ammonium Oxidizing Bacteria at Low Temperatures. Environmental Science & Technology, 2011, 45, 7330-7337.	4.6	159
144	Biofilm Formation on Reverse Osmosis Membranes Is Initiated and Dominated by Sphingomonas spp. Applied and Environmental Microbiology, 2010, 76, 2623-2632.	1.4	157

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145	Influence of the C/N ratio on the performance of polyhydroxybutyrate (PHB) producing sequencing batch reactors at short SRTs. Water Research, 2010, 44, 2141-2152.	5.3	157
146	A sludge characterization assay for aerobic and denitrifying phosphorus removing sludge. Water Research, 1997, 31, 471-478.	5.3	156
147	Effects of the residual ammonium concentration on NOB repression during partial nitritation with granular sludge. Water Research, 2016, 106, 518-530.	5.3	155
148	Formation of Aerobic Granules with Domestic Sewage. Journal of Environmental Engineering, ASCE, 2006, 132, 694-697.	0.7	154
149	Vivianite as an important iron phosphate precipitate in sewage treatment plants. Water Research, 2016, 104, 449-460.	5.3	154
150	A New Deterministic Spatio-Temporal Continuum Model for Biofilm Development. Journal of Theoretical Medicine, 2001, 3, 161-175.	0.5	153
151	Full-scale granular sludge Anammox process. Water Science and Technology, 2007, 55, 27-33.	1.2	152
152	The chemical and mechanical differences between alginate-like exopolysaccharides isolated from aerobic flocculent sludge and aerobic granular sludge. Water Research, 2013, 47, 57-65.	5.3	151
153	Effect of Elevated Salt Concentrations on the Aerobic Granular Sludge Process: Linking Microbial Activity with Microbial Community Structure. Applied and Environmental Microbiology, 2011, 77, 7942-7953.	1.4	150
154	Three-dimensional modeling of biofouling and fluid dynamics in feed spacer channels of membrane devices. Journal of Membrane Science, 2009, 345, 340-354.	4.1	149
155	Effect of humic acids on batch anaerobic digestion of excess sludge. Water Research, 2019, 155, 431-443.	5.3	149
156	Selective sludge removal in a segregated aerobic granular biomass system as a strategy to control PAOâ€“GAO competition at high temperatures. Water Research, 2011, 45, 3291-3299.	5.3	148
157	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, 1281-1294.	1.7	148
158	Sieving wastewater â€“ Cellulose recovery, economic and energy evaluation. Water Research, 2013, 47, 43-48.	5.3	148
159	Enrichment of DNRA bacteria in a continuous culture. ISME Journal, 2015, 9, 2153-2161.	4.4	148
160	Biofilm structures. Water Science and Technology, 1995, 32, 35-43.	1.2	148
161	Biological phosphate removal processes. Applied Microbiology and Biotechnology, 1997, 48, 289-296.	1.7	146
162	Effect of feeding pattern and storage on the sludge settleability under aerobic conditions. Water Research, 2003, 37, 2555-2570.	5.3	146

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163	Modelling the effect of oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. Water Science and Technology, 1997, 36, 147-156.	1.2	145
164	IMPACT OF EXCESSIVE AERATION ON BIOLOGICAL PHOSPHORUS REMOVAL FROM WASTEWATER. Water Research, 1998, 32, 200-208.	5.3	145
165	Full-scale application of the SHARON process for treatment of rejection water of digested sludge dewatering. Water Science and Technology, 2001, 43, 127-134.	1.2	144
166	Behavior of polymeric substrates in an aerobic granular sludge system. Water Research, 2010, 44, 5929-5938.	5.3	144
167	Effect of temperature on storage polymers and settleability of activated sludge. Water Research, 1999, 33, 2374-2382.	5.3	143
168	Kinetic model of a granular sludge SBR: Influences on nutrient removal. Biotechnology and Bioengineering, 2007, 97, 801-815.	1.7	142
169	Unravelling the reasons for disproportion in the ratio of AOB and NOB in aerobic granular sludge. Applied Microbiology and Biotechnology, 2012, 94, 1657-1666.	1.7	142
170	Large-scale demonstration of the sulfate reduction autotrophic denitrification nitrification integrated (SANIÂ®) process in saline sewage treatment. Water Research, 2016, 100, 496-507.	5.3	142
171	Effect and behaviour of different substrates in relation to the formation of aerobic granular sludge. Applied Microbiology and Biotechnology, 2015, 99, 5257-5268.	1.7	141
172	Mathematical model for microbial fuel cells with anodic biofilms and anaerobic digestion. Water Science and Technology, 2008, 57, 965-971.	1.2	137
173	Reduced iron induced nitric oxide and nitrous oxide emission. Water Research, 2011, 45, 5945-5952.	5.3	137
174	Particle-based biofilm reactor technology. Trends in Biotechnology, 2000, 18, 312-320.	4.9	136
175	Multi-Scale Individual-Based Model of Microbial and Bioconversion Dynamics in Aerobic Granular Sludge. Environmental Science & Technology, 2007, 41, 6410-6417.	4.6	136
176	A theoretical study on the effect of surface roughness on mass transport and transformation in biofilms. Biotechnology and Bioengineering, 2000, 68, 355-369.	1.7	135
177	Emission of nitrous oxide and nitric oxide from a full-scale single-stage nitritation-anammox reactor. Water Science and Technology, 2009, 60, 3211-3217.	1.2	135
178	Analysing the mechanisms of sludge digestion enhanced by iron. Water Research, 2017, 117, 58-67.	5.3	135
179	Global sensitivity analysis in wastewater treatment plant model applications: Prioritizing sources of uncertainty. Water Research, 2011, 45, 639-651.	5.3	133
180	Evaluating the main and side effects of high salinity on aerobic granular sludge. Applied Microbiology and Biotechnology, 2014, 98, 1339-1348.	1.7	133

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181	Uncertainty analysis in WWTP model applications: A critical discussion using an example from design. Water Research, 2009, 43, 2894-2906.	5.3	132
182	Polyhydroxybutyrate production from lactate using a mixed microbial culture. Biotechnology and Bioengineering, 2011, 108, 2022-2035.	1.7	132
183	A three-dimensional numerical study on the correlation of spatial structure, hydrodynamic conditions, and mass transfer and conversion in biofilms. Chemical Engineering Science, 2000, 55, 6209-6222.	1.9	131
184	Determinants of presence and removal of antibiotic resistance genes during WWTP treatment: A cross-sectional study. Water Research, 2019, 161, 319-328.	5.3	131
185	Incorporating microbial ecology into the metabolic modelling of polyphosphate accumulating organisms and glycogen accumulating organisms. Water Research, 2010, 44, 4992-5004.	5.3	130
186	A general description of detachment for multidimensional modelling of biofilms. Biotechnology and Bioengineering, 2005, 91, 651-669.	1.7	128
187	Maintenance, endogeneous respiration, lysis, decay and predation. Water Science and Technology, 1999, 39, 107-117.	1.2	127
188	Modelling biological phosphorus and nitrogen removal in a full scale activated sludge process. Water Research, 1999, 33, 3459-3468.	5.3	126
189	Energy recovery from wastewater: Heat over organics. Water Research, 2019, 161, 74-77.	5.3	124
190	Kinetic modeling of poly(Î²-hydroxybutyrate) production and consumption byParacoccus pantotrophus under dynamic substrate supply. , 1997, 55, 773-782.		123
191	A practical protocol for dynamic modelling of activated sludge systems. Water Science and Technology, 2002, 45, 127-136.	1.2	123
192	Modelling nitrite in wastewater treatment systems: a discussion of different modelling concepts. Water Science and Technology, 2008, 58, 1155-1171.	1.2	123
193	Effect of free calcium concentration and ionic strength on alginate fouling in cross-flow membrane filtration. Journal of Membrane Science, 2009, 345, 207-216.	4.1	123
194	Substrate flux into storage and growth in relation to activated sludge modeling. Water Research, 1999, 33, 3149-3161.	5.3	122
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