Per HalkjÃ¦r Nielsen

List of Publications by Year
in descending order

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314	33,813	3334 91	4885 168
papers	citations	h-index	g-index

336	336	336	20574
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extraction of extracellular polymers from activated sludge using a cation exchange resin. Water Research, 1996, 30, 1749-1758.	11.3	2,040
2	Complete nitrification by Nitrospira bacteria. Nature, 2015, 528, 504-509.	27.8	1,878
3	Complete nitrification by a single microorganism. Nature, 2015, 528, 555-559.	27.8	1,336
4	Genome sequences of rare, uncultured bacteria obtained by differential coverage binning of multiple metagenomes. Nature Biotechnology, 2013, 31, 533-538.	17.5	1,176
5	Enzymatic activity in the activated-sludge floc matrix. Applied Microbiology and Biotechnology, 1995, 43, 755-761.	3.6	987
6	Enzymatic activity in the activated-sludge floc matrix. Applied Microbiology and Biotechnology, 1995, 43, 755-761.	3.6	917
7	In Situ Characterization of Nitrospira -Like Nitrite-Oxidizing Bacteria Active in Wastewater Treatment Plants. Applied and Environmental Microbiology, 2001, 67, 5273-5284.	3.1	718
8	Combination of Fluorescent In Situ Hybridization and Microautoradiographyâ€"a New Tool for Structure-Function Analyses in Microbial Ecology. Applied and Environmental Microbiology, 1999, 65, 1289-1297.	3.1	635
9	Measurement of pools of protein, carbohydrate and lipid in domestic wastewater. Water Research, 1994, 28, 251-262.	11.3	516
10	Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195.	13.3	491
11	Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus Nitrospira. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11371-11376.	7.1	439
12	Back to Basics â€“ The Influence of DNA Extraction and Primer Choice on Phylogenetic Analysis of Activated Sludge Communities. PLoS ONE, 2015, 10, e0132783.	2.5	437
13	The activated sludge ecosystem contains a core community of abundant organisms. ISME Journal, 2016, 10, 11-20.	9.8	416
14	Low Temperature Partial Nitritation/Anammox in a Moving Bed Biofilm Reactor Treating Low Strength Wastewater. Environmental Science & Technology, 2014, 48, 8784-8792.	10.0	319
15	Role of sulfateâ€reducing bacteria in corrosion of mild steel: A review. Biofouling, 1995, 8, 165-194.	2.2	316
16	Amyloid adhesins are abundant in natural biofilms. Environmental Microbiology, 2007, 9, 3077-3090.	3.8	291
17	Ammonia and temperature determine potential clustering in the anaerobic digestion microbiome. Water Research, 2015, 75, 312-323.	11.3	276
18	Thaumarchaeotes abundant in refinery nitrifying sludges express amoA but are not obligate autotrophic ammonia oxidizers. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16771-16776.	7.1	272

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19	On the stability of activated sludge flocs with implications to dewatering. Water Research, 1992, 26, 1597-1604.	11.3	271
20	A conceptual ecosystem model of microbial communities in enhanced biological phosphorus removal plants. Water Research, 2010, 44, 5070-5088.	11.3	257
21	Functional amyloid in Pseudomonas. Molecular Microbiology, 2010, 77, 1009-1020.	2.5	256
22	Identity and Ecophysiology of Uncultured Actinobacterial Polyphosphate-Accumulating Organisms in Full-Scale Enhanced Biological Phosphorus Removal Plants. Applied and Environmental Microbiology, 2005, 71, 4076-4085.	3.1	246
23	Dewatering in biological wastewater treatment: A review. Water Research, 2015, 82, 14-24.	11.3	231
24	Cohnâ€™sCrenothrixis a filamentous methane oxidizer with an unusual methane monooxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2363-2367.	7.1	229
25	Identification of active denitrifiers in fullâ€scale nutrient removal wastewater treatment systems. Environmental Microbiology, 2016, 18, 50-64.	3.8	226
26	Degradation of phthalate esters in an activated sludge wastewater treatment plant. Water Research, 2007, 41, 969-976.	11.3	225
27	The Isotope Array, a New Tool That Employs Substrate-Mediated Labeling of rRNA for Determination of Microbial Community Structure and Function. Applied and Environmental Microbiology, 2003, 69, 6875-6887.	3.1	223
28	High diversity and abundance of putative polyphosphate-accumulating Tetrasphaera-related bacteria in activated sludge systems. FEMS Microbiology Ecology, 2011, 76, 256-267.	2.7	218
29	A metagenome of a full-scale microbial community carrying out enhanced biological phosphorus removal. ISME Journal, 2012, 6, 1094-1106.	9.8	218
30	MiDAS: the field guide to the microbes of activated sludge. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav062.	3.0	213
31	A Critical Assessment of the Microorganisms Proposed to be Important to Enhanced Biological Phosphorus Removal in Full-Scale Wastewater Treatment Systems. Frontiers in Microbiology, 2017, 8, 718.	3.5	212
32	Identity, abundance and ecophysiology of filamentous Chloroflexi species present in activated sludge treatment plants. FEMS Microbiology Ecology, 2007, 59, 671-682.	2.7	210
33	â€˜Candidatus Competibacterâ€™-lineage genomes retrieved from metagenomes reveal functional metabolic diversity. ISME Journal, 2014, 8, 613-624.	9.8	203
34	Conceptual model for production and composition of exopolymers in biofilms. Water Science and Technology, 1997, 36, 11-19.	2.5	197
35	A metabolic model for members of the genus Tetrasphaera involved in enhanced biological phosphorus removal. ISME Journal, 2013, 7, 543-554.	9.8	188
36	Identity and ecophysiology of filamentous bacteria in activated sludge. FEMS Microbiology Reviews, 2009, 33, 969-998.	8.6	185

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37	Cultivation and characterization of Candidatus Nitrosocosmicus exaquare, an ammonia-oxidizing archaeon from a municipal wastewater treatment system. ISME Journal, 2017, 11, 1142-1157.	9.8	182
38	Re-evaluating the microbiology of the enhanced biological phosphorus removal process. Current Opinion in Biotechnology, 2019, 57, 111-118.	6.6	180
39	Ecophysiology of abundant denitrifying bacteria in activated sludge. FEMS Microbiology Ecology, 2007, 60, 370-382.	2.7	178
40	Connecting structure to function with the recovery of over 1000 high-quality metagenome-assembled genomes from activated sludge using long-read sequencing. Nature Communications, 2021, 12, 2009.	12.8	177
41	â€œMicrothrix parvicellaâ€, a filamentous bacterium causing bulking and foaming in activated sludge systems: a review of current knowledge. FEMS Microbiology Reviews, 2005, 29, 49-64.	8.6	176
42	MiDAS 3: An ecosystem-specific reference database, taxonomy and knowledge platform for activated sludge and anaerobic digesters reveals species-level microbiome composition of activated sludge. Water Research, 2020, 182, 115955.	11.3	175
43	Microautoradiographic Study of Rhodocyclus -Related Polyphosphate-Accumulating Bacteria in Full-Scale Enhanced Biological Phosphorus Removal Plants. Applied and Environmental Microbiology, 2004, 70, 5383-5390.	3.1	174
44	Limited dissemination of the wastewater treatment plant core resistome. Nature Communications, 2015, 6, 8452.	12.8	173
45	Identification and Ecophysiological Characterization of Epiphytic Protein-HydrolyzingSaprospiraceae(â€œCandidatusEpiflobacterâ€•spp.) in Activated Sludge. Applied and Environmental Microbiology, 2008, 74, 2229-2238.	3.1	172
46	Settling Characteristics of Activated Sludge in Danish Treatment Plants with Biological Nutrient Removal. Water Science and Technology, 1994, 29, 157-165.	2.5	170
47	Peatland Acidobacteria with a dissimilatory sulfur metabolism. ISME Journal, 2018, 12, 1729-1742.	9.8	168
48	Microbial communities involved in enhanced biological phosphorus removal from wastewaterâ€”a model system in environmental biotechnology. Current Opinion in Biotechnology, 2012, 23, 452-459.	6.6	167
49	Linking microbial community structure with function: fluorescence in situ hybridization-microautoradiography and isotope arrays. Current Opinion in Biotechnology, 2006, 17, 83-91.	6.6	166
50	Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation. Science, 2014, 345, 1052-1054.	12.6	166
51	Amyloid-Like Adhesins Produced by Floc-Forming and Filamentous Bacteria in Activated Sludge. Applied and Environmental Microbiology, 2008, 74, 1517-1526.	3.1	165
52	Retrieval of a million high-quality, full-length microbial 16S and 18S rRNA gene sequences without primer bias. Nature Biotechnology, 2018, 36, 190-195.	17.5	165
53	Structure and function of the microbial community in a full-scale enhanced biological phosphorus removal plant. Microbiology (United Kingdom), 2007, 153, 4061-4073.	1.8	162
54	We find them here, we find them there: Functional bacterial amyloid. Cellular and Molecular Life Sciences, 2008, 65, 910-927.	5.4	162

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55	Culture-Independent Analyses Reveal Novel Anaerolineaceae as Abundant Primary Fermenters in Anaerobic Digesters Treating Waste Activated Sludge. Frontiers in Microbiology, 2017, 8, 1134.	3.5	158
56	Phylogenetic diversity and ecophysiology of Candidate phylum Saccharibacteria in activated sludge. FEMS Microbiology Ecology, 2016, 92, fiw078.	2.7	155
57	Population dynamics of bacteria involved in enhanced biological phosphorus removal in Danish wastewater treatment plants. Water Research, 2013, 47, 1529-1544.	11.3	153
58	Conceptual model for production and composition of exopolymers in biofilms. Water Science and Technology, 1997, 36, 11.	2.5	148
59	A process and model concept for microbial wastewater transformations in gravity sewers. Water Science and Technology, 1998, 37, 233-241.	2.5	138
60	Extracellular DNA is abundant and important for microcolony strength in mixed microbial biofilms. Environmental Microbiology, 2011, 13, 710-721.	3.8	138
61	Link between microbial composition and carbon substrate-uptake preferences in a PHA-storing community. ISME Journal, 2013, 7, 1-12.	9.8	138
62	Changes in the composition of extracellular polymeric substances in activated sludge during anaerobic storage. Applied Microbiology and Biotechnology, 1996, 44, 823-830.	3.6	136
63	Functional bacterial amyloid increases Pseudomonas biofilm hydrophobicity and stiffness. Frontiers in Microbiology, 2015, 6, 1099.	3.5	133
64	Desorption of organic macromolecules from activated sludge: Effect of ionic composition. Water Research, 1997, 31, 1665-1672.	11.3	132
65	Expression of Fap amyloids in <scp>P</scp>seudomonas aeruginosa,<scp>P</scp>.Âfluorescens, and <scp>P</scp>.Âputida results in aggregation and increased biofilm formation. MicrobiologyOpen, 2013, 2, 365-382.	3.0	130
66	Resolving the individual contribution of key microbial populations to enhanced biological phosphorus removal with Ramanâ€“FISH. ISME Journal, 2019, 13, 1933-1946.	9.8	130
67	Disintegration of activated sludge flocs in presence of sulfide. Water Research, 1998, 32, 313-320.	11.3	129
68	Polyphosphate-accumulating organisms in full-scale tropical wastewater treatment plants use diverse carbon sources. Water Research, 2019, 149, 496-510.	11.3	129
69	The impact of immigration on microbial community composition in full-scale anaerobic digesters. Scientific Reports, 2017, 7, 9343.	3.3	127
70	On the evolution and physiology of cable bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19116-19125.	7.1	127
71	Studies on the in situ physiology of Thiothrix spp. present in activated sludge. Environmental Microbiology, 2000, 2, 389-398.	3.8	125
72	Lipase and protease extraction from activated sludge. Water Research, 2003, 37, 3652-3657.	11.3	124

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73	The bacteriology of chronic venous leg ulcer examined by culture-independent molecular methods. Wound Repair and Regeneration, 2010, 18, 38-49.	3.0	124
74	Curli Functional Amyloid Systems Are Phylogenetically Widespread and Display Large Diversity in Operon and Protein Structure. PLoS ONE, 2012, 7, e51274.	2.5	124
75	Metabolism and ecological niche of Tetrasphaera and Ca. Accumulibacter in enhanced biological phosphorus removal. Water Research, 2017, 122, 159-171.	11.3	124
76	MiDAS 2.0: an ecosystem-specific taxonomy and online database for the organisms of wastewater treatment systems expanded for anaerobic digester groups. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	3.0	124
77	Importance of unattached bacteria and bacteria attached to sediment in determining potentials for degradation of xenobiotic organic contaminants in an aerobic aquifer. Applied and Environmental Microbiology, 1992, 58, 3020-3026.	3.1	119
78	Extraction of EPS. , 1999, , 49-72.		118
79	Novel syntrophic bacteria in full-scale anaerobic digesters revealed by genome-centric metatranscriptomics. ISME Journal, 2020, 14, 906-918.	9.8	117
80	Quantification of cell-specific substrate uptake by probe-defined bacteria under in situ conditions by microautoradiography and fluorescence in situ hybridization. Environmental Microbiology, 2003, 5, 202-211.	3.8	115
81	Factors affecting microbial sulfate reduction byDesulfovibrio desulfuricansin continuous culture: Limiting nutrients and sulfide concentration. Biotechnology and Bioengineering, 1992, 40, 725-734.	3.3	114
82	MiDAS 4: A global catalogue of full-length 16S rRNA gene sequences and taxonomy for studies of bacterial communities in wastewater treatment plants. Nature Communications, 2022, 13, 1908.	12.8	114
83	Phylogenetic Identification and Substrate Uptake Patterns of Sulfate-Reducing Bacteria Inhabiting an Oxic-Anoxic Sewer Biofilm Determined by Combining Microautoradiography and Fluorescent In Situ Hybridization. Applied and Environmental Microbiology, 2002, 68, 356-364.	3.1	112
84	Characterization of the First â€œ Candidatus Nitrotogaâ€•Isolate Reveals Metabolic Versatility and Separate Evolution of Widespread Nitrite-Oxidizing Bacteria. MBio, 2018, 9, .	4.1	112
85	Anaerobic deflocculation and aerobic reflocculation of activated sludge. Water Research, 2000, 34, 3933-3942.	11.3	111
86	Population dynamics of filamentous bacteria in Danish wastewater treatment plants with nutrient removal. Water Research, 2012, 46, 3781-3795.	11.3	110
87	Experimental methods and modeling techniques for description of cell population heterogeneity. Biotechnology Advances, 2011, 29, 575-599.	11.7	108
88	Abundance and ecophysiology of Defluviicoccus spp., glycogen-accumulating organisms in full-scale wastewater treatment processes. Microbiology (United Kingdom), 2007, 153, 178-185.	1.8	106
89	Microbial Nitrate-Dependent Oxidation of Ferrous Iron in Activated Sludge. Environmental Science & Technology, 1998, 32, 3556-3561.	10.0	104
90	Peracetic acid degradation and effects on nitrification in recirculating aquaculture systems. Aquaculture, 2009, 296, 246-254.	3.5	104

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91	Ecophysiology of a group of uncultured Gammaproteobacterial glycogen-accumulating organisms in full-scale enhanced biological phosphorus removal wastewater treatment plants. Environmental Microbiology, 2006, 8, 479-489.	3.8	100
92	The morphology and metabolic potential of the Chloroflexi in full-scale activated sludge wastewater treatment plants. FEMS Microbiology Ecology, 2019, 95, .	2.7	100
93	Influence of microbial activity on the stability of activated sludge flocs. Colloids and Surfaces B: Biointerfaces, 2000, 18, 145-156.	5.0	99
94	Abundance and Phylogenetic Affiliation of Iron Reducers in Activated Sludge as Assessed by Fluorescence In Situ Hybridization and Microautoradiography. Applied and Environmental Microbiology, 2002, 68, 4629-4636.	3.1	97
95	â€œCandidatus Propionivibrio aalborgensisâ€• A Novel Glycogen Accumulating Organism Abundant in Full-Scale Enhanced Biological Phosphorus Removal Plants. Frontiers in Microbiology, 2016, 7, 1033.	3.5	97
96	Cell biomass and exopolymer composition in sewer biofilms. Water Science and Technology, 1998, 37, 17-24.	2.5	96
97	Mixed carbon sources for nitrate reduction in activated sludge-identification of bacteria and process activity studies. Water Research, 2008, 42, 1539-1546.	11.3	95
98	Metabolic model for the filamentous â€˜Candidatus Microthrix parvicellaâ€™ based on genomic and metagenomic analyses. ISME Journal, 2013, 7, 1161-1172.	9.8	93
99	Biofilm Dynamics and Kinetics during High-Rate Sulfate Reduction under Anaerobic Conditions. Applied and Environmental Microbiology, 1987, 53, 27-32.	3.1	93
100	Long-term effects of sulphide on the enhanced biological removal of phosphorus: The symbiotic role of Thiothrix caldifontis. Water Research, 2017, 116, 53-64.	11.3	92
101	Isotope Labeling and Microautoradiography of Active Heterotrophic Bacteria on the Basis of Assimilation of 14 CO 2. Applied and Environmental Microbiology, 2005, 71, 646-655.	3.1	91
102	The Family Saprospiraceae. , 2014, , 863-889.		91
103	Fibrillation of the Major Curli Subunit CsgA under a Wide Range of Conditions Implies a Robust Design of Aggregation. Biochemistry, 2011, 50, 8281-8290.	2.5	89
104	Characterization of activated sludge flocs by confocal laser scanning microscopy and image analysis. Water Research, 2003, 37, 2043-2052.	11.3	88
105	Genomic and in situ investigations of the novel uncultured Chloroflexi associated with 0092 morphotype filamentous bulking in activated sludge. ISME Journal, 2016, 10, 2223-2234.	9.8	88
106	Role of Hydrophobicity in Adhesion of the Dissimilatory Fe(III)-Reducing Bacterium Shewanella alga to Amorphous Fe(III) Oxide. Applied and Environmental Microbiology, 1997, 63, 3837-3843.	3.1	87
107	Application of microautoradiography to the study of substrate uptake by filamentous microorganisms in activated sludge. Applied and Environmental Microbiology, 1997, 63, 3662-3668.	3.1	87
108	Identity, abundance and ecophysiology of filamentous bacteria belonging to the Bacteroidetes present in activated sludge plants. Microbiology (United Kingdom), 2008, 154, 886-894.	1.8	86

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109	Isotope array analysis of Rhodocyclales uncovers functional redundancy and versatility in an activated sludge. ISME Journal, 2009, 3, 1349-1364.	9.8	86
110	Growth of Microthrix parvicella in nutrient removal activated sludge plants: studies of in situ physiology. Water Research, 2000, 34, 1559-1569.	11.3	85
111	Metabolic versatility in full-scale wastewater treatment plants performing enhanced biological phosphorus removal. Water Research, 2013, 47, 7032-7041.	11.3	84
112	Iron reduction in activated sludge measured with different extraction techniques. Water Research, 1996, 30, 551-558.	11.3	83
113	Detection of Pathogenic Biofilms with Bacterial Amyloid Targeting Fluorescent Probe, CDy11. Journal of the American Chemical Society, 2016, 138, 402-407.	13.7	82
114	Experimental Methods in Wastewater Treatment. Water Intelligence Online, 2016, 15, 9781780404752-9781780404752.	0.3	80
115	â€œCandidatus Dechloromonas phosphoritrophaâ€•and â€œCa. D. phosphorivoransâ€, novel polyphosphate accumulating organisms abundant in wastewater treatment systems. ISME Journal, 2021, 15, 3605-3614.	9.8	80
116	Ecophysiology of the filamentous Alphaproteobacterium Meganema perideroedes in activated sludge. FEMS Microbiology Ecology, 2005, 54, 111-112.	2.7	78
117	Substrate-dependent denitrification of abundant probe-defined denitrifying bacteria in activated sludge. FEMS Microbiology Ecology, 2008, 66, 447-461.	2.7	78
118	Eikelboom's morphotype 0803 in activated sludge belongs to the genus Caldilinea in the phylum Chloroflexi. FEMS Microbiology Ecology, 2011, 76, 451-462.	2.7	78
119	â€˜Candidatus Halomonas phosphatisâ€™, a novel polyphosphateâ€accumulating organism in fullâ€scale enhanced biological phosphorus removal plants. Environmental Microbiology, 2012, 14, 2826-2837.	3.8	76
120	Epigallocatechin Gallate Remodels Overexpressed Functional Amyloids in Pseudomonas aeruginosa and Increases Biofilm Susceptibility to Antibiotic Treatment. Journal of Biological Chemistry, 2016, 291, 26540-26553.	3.4	75
121	Novel prosthecate bacteria from the candidate phylum Acetothermia. ISME Journal, 2018, 12, 2225-2237.	9.8	75
122	Extraction of extracellular polymeric substances (EPS) from biofilms using a cation exchange resin. Water Science and Technology, 1995, 32, 157-164.	2.5	74
123	In situ detection of protein-hydrolysing microorganisms in activated sludge. FEMS Microbiology Ecology, 2007, 60, 156-165.	2.7	74
124	â€œCandidatus Accumulibacter delftensisâ€• A clade IC novel polyphosphate-accumulating organism without denitrifying activity on nitrate. Water Research, 2019, 161, 136-151.	11.3	74
125	Remember the water - a comment on EPS colligative properties. Water Science and Technology, 2001, 43, 17-23.	2.5	73
126	Adhesion characteristics of nitrifying bacteria in activated sludge. Water Research, 2008, 42, 2814-2826.	11.3	72

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127	Ecophysiology of the Actinobacteria in activated sludge systems. Antonie Van Leeuwenhoek, 2008, 94, 21-33.	1.7	71
128	Functional Amyloids Keep Quorum-sensing Molecules in Check. Journal of Biological Chemistry, 2015, 290, 6457-6469.	3.4	70
129	Ecophysiology of different filamentous Alphaproteobacteria in industrial wastewater treatment plants. Microbiology (United Kingdom), 2006, 152, 3003-3012.	1.8	69
130	Corrosion of mild steel underneath aerobic biofilms containing sulfateâ€reducing bacteria part II: At high dissolved oxygen concentration. Biofouling, 1993, 7, 217-239.	2.2	67
131	Widespread Abundance of Functional Bacterial Amyloid in Mycolata and Other Gram-Positive Bacteria. Applied and Environmental Microbiology, 2009, 75, 4101-4110.	3.1	66
132	Generation of Comprehensive Ecosystem-Specific Reference Databases with Species-Level Resolution by High-Throughput Full-Length 16S rRNA Gene Sequencing and Automated Taxonomy Assignment (AutoTax). MBio, 2020, 11, .	4.1	66
133	Bacteria from the Genus Arcobacter Are Abundant in Effluent from Wastewater Treatment Plants. Applied and Environmental Microbiology, 2020, 86, .	3.1	65
134	Transformation of organic matter in a gravity sewer. Water Environment Research, 1995, 67, 181-188.	2.7	63
135	Ecophysiology of mycolic acid-containing Actinobacteria (Mycolata) in activated sludge foams. FEMS Microbiology Ecology, 2007, 61, 174-184.	2.7	63
136	Composition ofpseudomonas putidabiofilms: Accumulation of protein in the biofilm matrix. Biofouling, 1999, 14, 49-57.	2.2	62
137	Enhancing metaproteomicsâ€"The value of models and defined environmental microbial systems. Proteomics, 2016, 16, 783-798.	2.2	62
138	Genomic insights into members of the candidate phylum Hyd24-12 common in mesophilic anaerobic digesters. ISME Journal, 2016, 10, 2352-2364.	9.8	62
139	The microorganisms in chronically infected end-stage and non-end-stage cystic fibrosis patients. FEMS Immunology and Medical Microbiology, 2012, 65, 236-244.	2.7	61
140	Integrative microbial community analysis reveals full-scale enhanced biological phosphorus removal under tropical conditions. Scientific Reports, 2016, 6, 25719.	3.3	61
141	Monitoring antibiotic resistance genes in wastewater environments: The challenges of filling a gap in the One-Health cycle. Journal of Hazardous Materials, 2022, 424, 127407.	12.4	60
142	Adsorption of ammonium to activated sludge. Water Research, 1996, 30, 762-764.	11.3	59
143	Activity and identity of fermenting microorganisms in fullâ€scale biological nutrient removing wastewater treatment plants. Environmental Microbiology, 2008, 10, 2008-2019.	3.8	59
144	Microbial biotechnology and circular economy in wastewater treatment. Microbial Biotechnology, 2017, 10, 1102-1105.	4.2	59

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145	Deflocculation of Activated Sludge by the Dissimilatory Fe(III)-Reducing Bacterium Shewanella alga BrY. Applied and Environmental Microbiology, 1996, 62, 1487-1490.	3.1	59
146	Observations on dewaterability and physical, chemical and microbiological changes in anaerobically stored activated sludge from a nutrient removal plant. Water Research, 1994, 28, 417-425.	11.3	58
147	Intracellular Accumulation of Glycine in Polyphosphate-Accumulating Organisms in Activated Sludge, a Novel Storage Mechanism under Dynamic Anaerobic-Aerobic Conditions. Applied and Environmental Microbiology, 2015, 81, 4809-4818.	3.1	58
148	Genomic insights into Candidatus Amarolinea aalborgensis gen. nov., sp. nov., associated with settleability problems in wastewater treatment plants. Systematic and Applied Microbiology, 2019, 42, 77-84.	2.8	58
149	Evolutionary Insight into the Functional Amyloids of the Pseudomonads. PLoS ONE, 2013, 8, e76630.	2.5	56
150	A new class of hybrid secretion system is employed in Pseudomonas amyloid biogenesis. Nature Communications, 2017, 8, 263.	12.8	56
151	High Diversity and Functional Potential of Undescribed â€œAcidobacteriotaâ€•in Danish Wastewater Treatment Plants. Frontiers in Microbiology, 2021, 12, 643950.	3.5	56
152	Micromanipulation and further identification of FISH-labelled microcolonies of a dominant denitrifying bacterium in activated sludge. Environmental Microbiology, 2004, 6, 470-479.	3.8	55
153	Enumeration of acetate-consuming bacteria by microautoradiography under oxygen and nitrate respiring conditions in activated sludge. Water Research, 2002, 36, 421-428.	11.3	53
154	In situ studies of the phylogeny and physiology of filamentous bacteria with attached growth. Environmental Microbiology, 2002, 4, 383-391.	3.8	53
155	Characterization of the loosely attached fraction of activated sludge bacteria. Water Research, 2008, 42, 843-854.	11.3	53
156	Identification of glucose-fermenting bacteria in a full-scale enhanced biological phosphorus removal plant by stable isotope probing. Microbiology (United Kingdom), 2012, 158, 1818-1825.	1.8	53
157	Survival and activity of individual bioaugmentation strains. Bioresource Technology, 2015, 186, 192-199.	9.6	53
158	Evaluation of the Redox Dye 5-Cyano-2,3-Tolyl-Tetrazolium Chloride for Activity Studies by Simultaneous Use of Microautoradiography and Fluorescence In Situ Hybridization. Applied and Environmental Microbiology, 2003, 69, 641-643.	3.1	52
159	Metagenomes from deep Baltic Sea sediments reveal how past and present environmental conditions determine microbial community composition. Marine Genomics, 2018, 37, 58-68.	1.1	52
160	Exploring the upper pH limits of nitrite oxidation: diversity, ecophysiology, and adaptive traits of haloalkalitolerant Nitrospira. ISME Journal, 2020, 14, 2967-2979.	9.8	52
161	Characterizing the growing microorganisms at species level in 46 anaerobic digesters at Danish wastewater treatment plants: A six-year survey on microbial community structure and key drivers. Water Research, 2021, 193, 116871.	11.3	51
162	Corrosion of mild steel in an alternating oxic and anoxic biofilm system. Biofouling, 1993, 7, 267-284.	2.2	50

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163	Long-term Population Dynamics and in situ Physiology in Activated Sludge Systems with Enhanced Biological Phosphorus Removal Operated with and without Nitrogen Removal. Systematic and Applied Microbiology, 2003, 26, 211-227.	2.8	50
164	Characterization of a thaumarchaeal symbiont that drives incomplete nitrification in the tropical spongeIanthella basta. Environmental Microbiology, 2019, 21, 3831-3854.	3.8	50
165	Comparison of methods for determination of microbial biomass in wastewater. Water Research, 2001, 35, 1649-1658.	11.3	49
166	Proteome profile and proteogenomics of the organohalide-respiring bacterium Dehalococcoides mccartyi strain CBDB1 grown on hexachlorobenzene as electron acceptor. Journal of Proteomics, 2014, 98, 59-64.	2.4	49
167	Unified understanding of physico-chemical properties of activated sludge and fouling propensity. Water Research, 2017, 120, 117-132.	11.3	48
168	Mass-immigration determines the assembly of activated sludge microbial communities. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	48
169	Variations in microcolony strength of probe-defined bacteria in activated sludge flocs. FEMS Microbiology Ecology, 2004, 50, 123-132.	2.7	47
170	Bioinformatic progress and applications in metaproteogenomics for bridging the gap between genomic sequences and metabolic functions in microbial communities. Proteomics, 2013, 13, 2786-2804.	2.2	46
171	Genomic and in Situ Analyses Reveal the Micropruina spp. as Abundant Fermentative Glycogen Accumulating Organisms in Enhanced Biological Phosphorus Removal Systems. Frontiers in Microbiology, 2018, 9, 1004.	3.5	45
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