Gerard Muyzer

List of Publications by Year
in descending order

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286 papers	40,329 citations	4942 84 h-index	3094 187 g-index
339 all docs	339 docs citations	339 times ranked	27644 citing authors

#	Article	IF	Citations
1	Profiling of complex microbial populations by denaturing gradient gel electrophoresis analysis of polymerase chain reaction-amplified genes coding for 16S rRNA. Applied and Environmental Microbiology, 1993, 59, 695-700.	1.4	9,925
2	The ecology and biotechnology of sulphate-reducing bacteria. Nature Reviews Microbiology, 2008, 6, 441-454.	13.6	1,737
3	Application of denaturing gradient gel electrophoresis (DGGE) and temperature gradient gel electrophoresis (TGGE) in microbial ecology. , 1998, 73, 127-141.		1,726
4	Missing lithotroph identified as new planctomycete. Nature, 1999, 400, 446-449.	13.7	1,382
5	PCR primers to amplify 16S rRNA genes from cyanobacteria. Applied and Environmental Microbiology, 1997, 63, 3327-3332.	1.4	1,206
6	Application of bacteria as self-healing agent for the development of sustainable concrete. Ecological Engineering, 2010, 36, 230-235.	1.6	1,041
7	Phylogenetic relationships ofThiomicrospira species and their identification in deep-sea hydrothermal vent samples by denaturing gradient gel electrophoresis of 16S rDNA fragments. Archives of Microbiology, 1995, 164, 165-172.	1.0	1,031
8	Denaturing gradient gel electrophoresis profiles of 16S rRNA-defined populations inhabiting a hot spring microbial mat community. Applied and Environmental Microbiology, 1996, 62, 340-346.	1.4	795
9	DGGE/TGGE a method for identifying genes from natural ecosystems. Current Opinion in Microbiology, 1999, 2, 317-322.	2.3	737
10	The anaerobic oxidation of ammonium. FEMS Microbiology Reviews, 1998, 22, 421-437.	3.9	660
11	The membrane bioreactor: A novel tool to grow anammox bacteria as free cells. Biotechnology and Bioengineering, 2008, 101, 286-294.	1.7	458
12	A genomic catalog of Earthâ€™s microbiomes. Nature Biotechnology, 2021, 39, 499-509.	9.4	457
13	Distribution of sulfate-reducing bacteria in a stratified fjord (Mariager Fjord, Denmark) as evaluated by most-probable-number counts and denaturing gradient gel electrophoresis of PCR-amplified ribosomal DNA fragments. Applied and Environmental Microbiology, 1996, 62, 1405-1415.	1.4	427
14	Identification of and Spatio-Temporal Differences between Microbial Assemblages from Two Neighboring Sulfurous Lakes: Comparison by Microscopy and Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 2000, 66, 499-508.	1.4	392
15	Nitrification expanded: discovery, physiology and genomics of a nitrite-oxidizing bacterium from the phylum Chloroflexi. ISME Journal, 2012, 6, 2245-2256.	4.4	345
16	Enrichment of a Mixed Bacterial Culture with a High Polyhydroxyalkanoate Storage Capacity. Biomacromolecules, 2009, 10, 670-676.	2.6	342
17	Optimization of Terminal-Restriction Fragment Length Polymorphism Analysis for Complex Marine Bacterioplankton Communities and Comparison with Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 1999, 65, 3518-3525.	1.4	320
18	Microbial diversity and biogeochemical cycling in soda lakes. Extremophiles, 2014, 18, 791-809.	0.9	264

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19	The phylogeny of unicellular, extremely halotolerant cyanobacteria. Archives of Microbiology, 1998, 169, 469-482.	1.0	260
20	The Rise of the Rhizosolenid Diatoms. Science, 2004, 304, 584-587.	6.0	251
21	Structural and Functional Dynamics of Sulfate-Reducing Populations in Bacterial Biofilms. Applied and Environmental Microbiology, 1998, 64, 3731-3739.	1.4	250
22	Quantifying Microbial Diversity: Morphotypes, 16S rRNA Genes, and Carotenoids of Oxygenic Phototrophs in Microbial Mats. Applied and Environmental Microbiology, 1999, 65, 422-430.	1.4	244
23	A COMPARISON OF TAXON CO-OCCURRENCE PATTERNS FOR MACRO- AND MICROORGANISMS. Ecology, 2007, 88, 1345-1353.	1.5	223
24	Competition and coexistence of sulfate-reducing bacteria, acetogens and methanogens in a lab-scale anaerobic bioreactor as affected by changing substrate to sulfate ratio. Applied Microbiology and Biotechnology, 2008, 78, 1045-1055.	1.7	217
25	Denaturing gradient gel electrophoresis in marine microbial ecology. Methods in Microbiology, 2001, 30, 425-468.	0.4	212
26	Phototrophic biofilms and their potential applications. Journal of Applied Phycology, 2008, 20, 227-235.	1.5	208
27	Diversity, Activity, and Abundance of Sulfate-Reducing Bacteria in Saline and Hypersaline Soda Lakes. Applied and Environmental Microbiology, 2007, 73, 2093-2100.	1.4	207
28	Dethiobacter alkaliphilus gen. nov. sp. nov., and Desulfurivibrio alkaliphilus gen. nov. sp. nov.: two novel representatives of reductive sulfur cycle from soda lakes. Extremophiles, 2008, 12, 431-439.	0.9	207
29	The Microbial Sulfur Cycle at Extremely Haloalkaline Conditions of Soda Lakes. Frontiers in Microbiology, 2011, 2, 44.	1.5	191
30	Wide diversity of methane and short-chain alkane metabolisms in uncultured archaea. Nature Microbiology, 2019, 4, 603-613.	5.9	187
31	Diversity of Sulfate-Reducing Bacteria in Oxic and Anoxic Regions of a Microbial Mat Characterized by Comparative Analysis of Dissimilatory Sulfite Reductase Genes. Applied and Environmental Microbiology, 1999, 65, 4666-4671.	1.4	184
32	Phenotypic and phylogenetic analyses show Microcoleus chthonoplastes to be a cosmopolitan cyanobacterium. Applied and Environmental Microbiology, 1996, 62, 3284-3291.	1.4	178
33	Bacteriophage Diversity in the North Sea. Applied and Environmental Microbiology, 1998, 64, 4128-4133.	1.4	178
34	Combined DNA and lipid analyses of sediments reveal changes in Holocene haptophyte and diatom populations in an Antarctic lake. Earth and Planetary Science Letters, 2004, 223, 225-239.	1.8	175
35	Identification of bacteria in a biodegraded wall painting by denaturing gradient gel electrophoresis of PCR-amplified gene fragments coding for 16S rRNA. Applied and Environmental Microbiology, 1996, 62, 2059-2065.	1.4	173
36	Microbial community dynamics in Mediterranean nutrient-enriched seawater mesocosms: changes in the genetic diversity of bacterial populations. FEMS Microbiology Ecology, 2001, 34, 243-253.	1.3	168

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37	Novel principles in the microbial conversion of nitrogen compounds. Antonie Van Leeuwenhoek, 1997, 71, 75-93.	0.7	167
38	Evolution of the methane cycle in Ace Lake (Antarctica) during the Holocene: response of methanogens and methanotrophs to environmental change. Organic Geochemistry, 2004, 35, 1151-1167.	0.9	167
39	Genetic diversity of Ã¢Â€Â˜satelliteÃ¢Â€Â™ bacteria present in cultures of marine diatoms. FEMS Microbiology Ecology, 2002, 42, 25-35.	1.3	165
40	Metagenomic Insights into the Uncultured Diversity and Physiology of Microbes in Four Hypersaline Soda Lake Brines. Frontiers in Microbiology, 2016, 7, 211.	1.5	161
41	Unexpected Population Distribution in a Microbial Mat Community: Sulfate-Reducing Bacteria Localized to the Highly Oxic Chemocline in Contrast to a Eukaryotic Preference for Anoxia. Applied and Environmental Microbiology, 1999, 65, 4659-4665.	1.4	156
42	Rhizosphere Microbiomes of European + Seagrasses Are Selected by the Plant, But Are Not Species Specific. Frontiers in Microbiology, 2016, 7, 440.	1.5	153
43	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
44	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
45	Spatial Heterogeneity of Bacterial Populations along an Environmental Gradient at a Shallow Submarine Hydrothermal Vent near Milos Island (Greece). Applied and Environmental Microbiology, 1999, 65, 3834-3842.	1.4	144
46	Molecular identification of bacteria from a coculture by denaturing gradient gel electrophoresis of 16S ribosomal DNA fragments as a tool for isolation in pure cultures. Applied and Environmental Microbiology, 1996, 62, 4210-4215.	1.4	137
47	Polyhydroxybutyrate production from lactate using a mixed microbial culture. Biotechnology and Bioengineering, 2011, 108, 2022-2035.	1.7	132
48	Distribution of Sulfate-Reducing and Methanogenic Bacteria in Anaerobic Aggregates Determined by Microsensor and Molecular Analyses. Applied and Environmental Microbiology, 1999, 65, 4618-4629.	1.4	131
49	Application of bacteria involved in the biological sulfur cycle for paper mill effluent purification. Science of the Total Environment, 2009, 407, 1333-1343.	3.9	130
50	Diversity of Thiosulfate-Oxidizing Bacteria from Marine Sediments and Hydrothermal Vents. Applied and Environmental Microbiology, 2000, 66, 3125-3133.	1.4	129
51	Physiology, phylogenetic relationships, and ecology of filamentous sulfate-reducing bacteria (genus) Tj ETQq1 1 0.784314 rgBT /Over	1.0	127
52	Phylogenetic relationships of Thiomicrospira species and their identification in deep-sea hydrothermal vent samples by denaturing gradient gel electrophoresis of 16S rDNA fragments. Archives of Microbiology, 1995, 164, 165-172.	1.0	127
53	Nested PCR-Denaturing Gradient Gel Electrophoresis Approach To Determine the Diversity of Sulfate-Reducing Bacteria in Complex Microbial Communities. Applied and Environmental Microbiology, 2005, 71, 2325-2330.	1.4	125
54	Microheterogeneity in 16S Ribosomal DNA-Defined Bacterial Populations from a Stratified Planktonic Environment Is Related to Temporal Changes and to Ecological Adaptations. Applied and Environmental Microbiology, 2002, 68, 1706-1714.	1.4	124

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55	Evaluation of denaturing gradient gel electrophoresis in the detection of 16S rDNA sequence variation in rhizobia and methanotrophs. FEMS Microbiology Ecology, 2006, 24, 279-285.	1.3	122
56	Genetic diversity of Desulfovibrio spp. in environmental samples analyzed by denaturing gradient gel electrophoresis of [NiFe] hydrogenase gene fragments. Applied and Environmental Microbiology, 1995, 61, 2203-2210.	1.4	121
57	Characterization of functional bacterial groups in a hypersaline microbial mat community (Salins-de-Giraud, Camargue, France). FEMS Microbiology Ecology, 2004, 51, 55-70.	1.3	120
58	Biomarker and 16S rDNA evidence for anaerobic oxidation of methane and related carbonate precipitation in deep-sea mud volcanoes of the Sorokin Trough, Black Sea. Marine Geology, 2005, 217, 67-96.	0.9	120
59	Diversity of phototrophic bacteria in microbial mats from Arctic hot springs (Greenland). Environmental Microbiology, 2007, 9, 26-38.	1.8	120
60	A metagenomics roadmap to the uncultured genome diversity in hypersaline soda lake sediments. Microbiome, 2018, 6, 168.	4.9	120
61	Diversity and spatio-temporal distribution of ammonia-oxidizing Archaea and Bacteria in sediments of the Westerschelde estuary. FEMS Microbiology Ecology, 2008, 64, 175-186.	1.3	119
62	A Vista for Microbial Ecology and Environmental Biotechnology. Environmental Science & Technology, 2006, 40, 1096-1103.	4.6	118
63	Analysis of Diversity and Activity of Sulfate-Reducing Bacterial Communities in Sulfidogenic Bioreactors Using 16S rRNA and dsrB Genes as Molecular Markers. Applied and Environmental Microbiology, 2007, 73, 594-604.	1.4	118
64	Bacterial activity and genetic richness along an estuarine gradient (Rhone River plume, France). Aquatic Microbial Ecology, 2002, 28, 13-24.	0.9	117
65	Functional microbiology of soda lakes. Current Opinion in Microbiology, 2015, 25, 88-96.	2.3	115
66	A diatomaceous origin for long-chain diols and mid-chain hydroxy methyl alkanoates widely occurring in quaternary marine sediments: indicators for high-nutrient conditions. Geochimica Et Cosmochimica Acta, 2003, 67, 1339-1348.	1.6	113
67	Anaerobic growth of the haloalkaliphilic denitrifying sulfur-oxidizing bacterium Thialkalivibrio thiocyanodenitrificans sp. nov. with thiocyanate. Microbiology (United Kingdom), 2004, 150, 2435-2442.	0.7	113
68	Genetic diversity of inorganic carbon uptake systems causes variation in CO2 response of the cyanobacterium Microcystis. ISME Journal, 2014, 8, 589-600.	4.4	113
69	Increased species diversity and extended habitat range of sulfur-oxidizing Thiomicrospira spp. Applied and Environmental Microbiology, 1997, 63, 3789-3796.	1.4	112
70	Physiological and genomic features of highly alkaliphilic hydrogen-utilizing Betaproteobacteria from a continental serpentinizing site. Nature Communications, 2014, 5, 3900.	5.8	111
71	Identification of 16S Ribosomal DNA-Defined Bacterial Populations at a Shallow Submarine Hydrothermal Vent near Milos Island (Greece). Applied and Environmental Microbiology, 2000, 66, 3102-3109.	1.4	107
72	Molecular methods to study the organization of microbial communities. Water Science and Technology, 1995, 32, 1.	1.2	106

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73	Structural and functional analysis of a microbial mat ecosystem from a unique permanent hypersaline inland lake: Ã¢Â€Â˜La Salada de ChipranaÃ¢Â€Â™ (NE Spain). FEMS Microbiology Ecology, 2003, 44, 175-189.	1.3	105
74	Metabolic modeling of mixed substrate uptake for polyhydroxyalkanoate (PHA) production. Water Research, 2011, 45, 1309-1321.	5.3	105
75	Nitrate-dependent [Fe(II)EDTA]2â^' oxidation by Paracoccus ferrooxidans sp. nov., isolated from a denitrifying bioreactor. Systematic and Applied Microbiology, 2006, 29, 276-286.	1.2	104
76	Diversity of microbial communities in open mixed culture fermentations: impact of the pH and carbon source. Applied Microbiology and Biotechnology, 2008, 80, 1121-1130.	1.7	104
77	Microbial transformations of arsenic: perspectives for biological removal of arsenic from water. Future Microbiology, 2013, 8, 753-768.	1.0	103
78	Matching molecular diversity and ecophysiology of benthic cyanobacteria and diatoms in communities along a salinity gradient. Environmental Microbiology, 2000, 2, 217-226.	1.8	101
79	Divergent members of the bacterial division Verrucomicrobiales in a temperate freshwater lake. FEMS Microbiology Ecology, 1998, 25, 159-169.	1.3	97
80	The halotolerance and phylogeny of cyanobacteria with tightly coiled trichomes (Spirulina Turpin) and the description of Halospirulina tapeticola gen. nov., sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2000, 50, 1265-1277.	0.8	97
81	Isolation and characterization of a novel facultatively alkaliphilic Nitrobacter species, N. alkalicus sp. nov.. Archives of Microbiology, 1998, 170, 345-352.	1.0	95
82	Sulfidogenesis under extremely haloalkaline conditions by Desulfonatronospira thiodismutans gen. nov., sp. nov., and Desulfonatronospira delicata sp. nov. - a novel lineage of Deltaproteobacteria from hypersaline soda lakes. Microbiology (United Kingdom), 2008, 154, 1444-1453.	0.7	92
83	Distribution and Diversity of Sulfur-Oxidizing Thiomicrospira spp. at a Shallow-Water Hydrothermal Vent in the Aegean Sea (Milos, Greece). Applied and Environmental Microbiology, 1999, 65, 3843-3849.	1.4	91
84	Biological removal of NOx from flue gas. Water Science and Technology, 2004, 50, 9-15.	1.2	90
85	Thialkalivibrio halophilus sp. nov., a novel obligately chemolithoautotrophic, facultatively alkaliphilic, and extremely salt-tolerant, sulfur-oxidizing bacterium from a hypersaline alkaline lake. Extremophiles, 2004, 8, 325-334.	0.9	89
86	Successional changes in the genetic diversity of a marine bacterial assemblage during confinement. Archives of Microbiology, 2000, 173, 138-145.	1.0	88
87	Bacterial diversity and activity along a salinity gradient in soda lakes of the Kulunda Steppe (Altai,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	87
88	Bacterial community structure and variation in a full-scale seawater desalination plant for drinking water production. Water Research, 2016, 94, 62-72.	5.3	86
89	changes in bacterial community structure in seawater mesocosms differing in their nutrient status. Aquatic Microbial Ecology, 1999, 19, 255-267.	0.9	85
90	Diversity of culturable halophilic sulfur-oxidizing bacteria in hypersaline habitats. Microbiology (United Kingdom), 2006, 152, 3013-3023.	0.7	85

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91	Culturable diversity of lithotrophic haloalkaliphilic sulfate-reducing bacteria in soda lakes and the description of Desulfonatronum thioautotrophicum sp. nov., Desulfonatronum thiosulfatophilum sp. nov., Desulfonatronovibrio thiodismutans sp. nov., and Desulfonatronovibrio magnus sp. nov.. Extremophiles, 2011, 15, 391-401.	0.9	85
92	Oxic-anoxic regime shifts mediated by feedbacks between biogeochemical processes and microbial community dynamics. Nature Communications, 2017, 8, 789.	5.8	85
93	Thioalkalivibrio sulfidiphilus sp. nov., a haloalkaliphilic, sulfur-oxidizing gammaproteobacterium from alkaline habitats. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1884-1889.	0.8	83
94	Skeletal matrices, muci, and the origin of invertebrate calcification.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1554-1559.	3.3	82
95	Thiohalomonas denitrificans gen. nov., sp. nov. and Thiohalomonas nitratireducens sp. nov., novel obligately chemolithoautotrophic, moderately halophilic, thiodenitrifying Gammaproteobacteria from hypersaline habitats. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 1582-1589.	0.8	82
96	ECOLOGICAL DIFFERENTIATION BETWEEN SYMPATRIC PSEUDOCRYPTIC SPECIES IN THE ESTUARINE BENTHIC DIATOMNAVICULA PHYLLEPTA(BACILLARIOPHYCEAE)¹. Journal of Phycology, 2009, 45, 1278-1289.	1.0	82
97	Effect of temperature and cycle length on microbial competition in PHB-producing sequencing batch reactor. ISME Journal, 2011, 5, 896-907.	4.4	82
98	Nitrolancea hollandica gen. nov., sp. nov., a chemolithoautotrophic nitrite-oxidizing bacterium isolated from a bioreactor belonging to the phylum Chloroflexi. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 1859-1865.	0.8	82
99	A Combined Immunofluorescence-DNA-Fluorescence Staining Technique for Enumeration of Thiobacillus ferrooxidans in a Population of Acidophilic Bacteria. Applied and Environmental Microbiology, 1987, 53, 660-664.	1.4	81
100	Molecular characterization of microbial populations in groundwater sources and sand filters for drinking water production. Water Research, 2009, 43, 182-194.	5.3	80
101	DISTRIBUTION OF TWO TYPES OF EMILIANIA HUXLEYI (PRYMNESIOPHYCEAE) IN THE NORTHEAST ATLANTIC REGION AS DETERMINED BY IMMUNOFLUORESCENCE AND COCCOLITH MORPHOLOGY1. Journal of Phycology, 1991, 27, 566-570.	1.0	79
102	Heterotrophic Pioneers Facilitate Phototrophic Biofilm Development. Microbial Ecology, 2007, 54, 578-585.	1.4	79
103	Microbial community dynamics in Mediterranean nutrient-enriched seawater mesocosms: changes in abundances, activity and composition. FEMS Microbiology Ecology, 2001, 34, 255-266.	1.3	78
104	Characterization of geochemical constituents and bacterial populations associated with As mobilization in deep and shallow tube wells in Bangladesh. Water Research, 2009, 43, 1720-1730.	5.3	78
105	Molecular diversity studies of bacterial communities of oil polluted microbial mats from the Etang de Berre (France). FEMS Microbiology Ecology, 2006, 58, 550-562.	1.3	77
106	Sulfidogenesis under extremely haloalkaline conditions in soda lakes of Kulunda Steppe (Altai,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	1.3	77
107	Thioclava pacifica gen. nov., sp. nov., a novel facultatively autotrophic, marine, sulfur-oxidizing bacterium from a near-shore sulfidic hydrothermal area. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1069-1075.	0.8	76
108	Denitrification in a binary culture and thiocyanate metabolism in Thiohalophilus thiocyanoxidans gen. nov. sp. nov. â€“ a moderately halophilic chemolithoautotrophic sulfur-oxidizing Gammaproteobacterium from hypersaline lakes. Archives of Microbiology, 2007, 187, 441-450.	1.0	76

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109	Diversity of iron oxidizers in wetland soils revealed by novel 16S rRNA primers targeting Gallionella-related bacteria. ISME Journal, 2009, 3, 715-725.	4.4	73
110	Complete genome sequence of Thioalkalivibrio â€œsulfidophilusâ€•HL-EbGr7. Standards in Genomic Sciences, 2011, 4, 23-35.	1.5	72
111	Genetic diversity of total, active and culturable marine bacteria in coastal seawater. Aquatic Microbial Ecology, 2000, 23, 1-11.	0.9	71
112	Microbiological analysis of the population of extremely haloalkaliphilic sulfur-oxidizing bacteria dominating in lab-scale sulfide-removing bioreactors. Applied Microbiology and Biotechnology, 2008, 80, 965-975.	1.7	71
113	Genetic diversity and expression of the [NiFe] hydrogenase large-subunit gene of Desulfovibrio spp. in environmental samples. Applied and Environmental Microbiology, 1997, 63, 4360-4369.	1.4	71
114	Preservation of the bone protein osteocalcin in dinosaurs. Geology, 1992, 20, 871.	2.0	70
115	Metagenomes and metatranscriptomes shed new light on the microbial-mediated sulfur cycle in a Siberian soda lake. BMC Biology, 2019, 17, 69.	1.7	70
116	Biofilm dynamics studied with microsensors and molecular techniques. Water Science and Technology, 1998, 37, 125-129.	1.2	69
117	Desulfonatronobacter acidivorans gen. nov., sp. nov. and Desulfobulbus alkaliphilus sp. nov., haloalkaliphilic heterotrophic sulfate-reducing bacteria from soda lakes. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 2107-2113.	0.8	69
118	Genetic diversity and biogeography of haloalkaliphilic sulphur-oxidizing bacteria belonging to the genus Thioalkalivibrio. FEMS Microbiology Ecology, 2006, 56, 95-101.	1.3	65
119	On the origin of 24-norcholestanes and their use as age-diagnostic biomarkers. Geology, 2007, 35, 419.	2.0	65
120	Thiomicrospira kuenenii sp. nov. and Thiomicrospira frisia sp. nov., two mesophilic obligately chemolithoautotrophic sulfur-oxidizing bacteria isolated from an intertidal mud flat. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 385-392.	0.8	64
121	Comparison of a New Thiomicrospira Strain from the Mid-Atlantic Ridge with Known Hydrothermal Vent Isolates. Applied and Environmental Microbiology, 1998, 64, 4057-4059.	1.4	62
122	Application of a 2-step process for the biological treatment of sulfidic spent caustics. Water Research, 2012, 46, 723-730.	5.3	61
123	Molecular methods to study the organization of microbial communities. Water Science and Technology, 1995, 32, 1-9.	1.2	60
124	Experimental evidence for condensation reactions between sugars and proteins in carbonate skeletons. Geochimica Et Cosmochimica Acta, 1992, 56, 1539-1544.	1.6	59
125	Citreicella thiooxidans gen. nov., sp. nov., a novel lithoheterotrophic sulfur-oxidizing bacterium from the Black Sea. Systematic and Applied Microbiology, 2005, 28, 679-687.	1.2	58
126	Genome analysis of <scp>C</scp>hitinivibrio alkaliphilus gen. nov., sp. nov., a novel extremely haloalkaliphilic anaerobic chitinolytic bacterium from the candidate phylum <scp>T</scp>ermite <scp>G</scp>roup 3. Environmental Microbiology, 2014, 16, 1549-1565.	1.8	58

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127	Composition and temporal dynamics of planktonic archaeal assemblages from anaerobic sulfurous environments studied by 16S rDNA denaturing gradient gel electrophoresis and sequencing. Aquatic Microbial Ecology, 2001, 25, 237-246.	0.9	58
128	Influence of salts and pH on growth and activity of a novel facultatively alkaliphilic, extremely salt-tolerant, obligately chemolithoautotrophic sufur-oxidizing Gammaproteobacterium Thioalkalibacter halophilus gen. nov., sp. nov. from South-Western Siberian soda lakes. Extremophiles, 2008, 12, 391-404.	0.9	57
129	Thiohalobacter thiocyanaticus gen. nov., sp. nov., a moderately halophilic, sulfur-oxidizing gammaproteobacterium from hypersaline lakes, that utilizes thiocyanate. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 444-450.	0.8	56
130	Diversity and Distribution of Sulfur Oxidation-Related Genes in Thioalkalivibrio, a Genus of Chemolithoautotrophic and Haloalkaliphilic Sulfur-Oxidizing Bacteria. Frontiers in Microbiology, 2019, 10, 160.	1.5	56
131	Thiohalorhabdus denitrificans gen. nov., sp. nov., an extremely halophilic, sulfur-oxidizing, deep-lineage gammaproteobacterium from hypersaline habitats. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 2890-2897.	0.8	54
132	Thiohalospira halophila gen. nov., sp. nov. and Thiohalospira alkaliphila sp. nov., novel obligately chemolithoautotrophic, halophilic, sulfur-oxidizing gammaproteobacteria from hypersaline habitats. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 1685-1692.	0.8	54
133	Comparative Genome Analysis of Three Thiocyanate Oxidizing Thioalkalivibrio Species Isolated from Soda Lakes. Frontiers in Microbiology, 2017, 8, 254.	1.5	53
134	Phylogenetic diversity of bacterial endosymbionts in the gutless marine oligochete Olavius loisae (Annelida). Marine Ecology - Progress Series, 1999, 178, 271-280.	0.9	53
135	Methylohalomonas lacus gen. nov., sp. nov. and Methylonatrum kenyense gen. nov., sp. nov., methylotrophic gammaproteobacteria from hypersaline lakes. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 2762-2769.	0.8	52
136	Microbial diversity of an oil-water processing site and its associated oil field: the possible role of microorganisms as information carriers from oil-associated environments. FEMS Microbiology Ecology, 2010, 71, 428-443.	1.3	52
137	Diversity of RuBisCO and ATP citrate lyase genes in soda lake sediments. FEMS Microbiology Ecology, 2011, 75, 37-47.	1.3	52
138	Biological treatment of refinery spent caustics under halo-alkaline conditions. Bioresource Technology, 2011, 102, 7257-7264.	4.8	52
139	Analysis of community composition of sulfur-oxidizing bacteria in hypersaline and soda lakes usingsoxB as a functional molecular marker. FEMS Microbiology Ecology, 2013, 84, 280-289.	1.3	52
140	SALINITY-DEPENDENT LIMITATION OF PHOTOSYNTHESIS AND OXYGEN EXCHANGE IN MICROBIAL MATS. Journal of Phycology, 1999, 35, 227-238.	1.0	51
141	Heterotrophic denitrification at extremely high salt and pH by haloalkaliphilic Gammaproteobacteria from hypersaline soda lakes. Extremophiles, 2008, 12, 619-625.	0.9	51
142	A nested PCR approach for improved recovery of archaeal 16S rRNA gene fragments from freshwater samples. FEMS Microbiology Letters, 2009, 298, 193-198.	0.7	51
143	Succession of Bacterial Communities in a Seasonally Stratified Lake with an Anoxic and Sulfidic Hypolimnion. Frontiers in Microbiology, 2017, 8, 2511.	1.5	50
144	Thiomicrospira chilensis sp. nov., a mesophilic obligately chemolithoautotrophic sulfur-oxidizing bacterium isolated from a Thioploca mat. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 875-879.	0.8	49

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145	Acetonitrile degradation under haloalkaline conditions by Natronocella acetinitrilica gen. nov., sp. nov.. Microbiology (United Kingdom), 2007, 153, 1157-1164.	0.7	49
146	Growth kinetics of haloalkaliphilic, sulfur-oxidizing bacterium Thioalkalivibrio versutus strain ALJ 15 in continuous culture. Extremophiles, 2004, 8, 185-192.	0.9	48
147	Metabolism and Occurrence of Methanogenic and Sulfate-Reducing Syntrophic Acetate Oxidizing Communities in Haloalkaline Environments. Frontiers in Microbiology, 2018, 9, 3039.	1.5	48
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