Akira Hiraishi

List of Publications by Year
in descending order

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166 papers	8,303 citations	38742 50 h-index	53230 85 g-index
184 all docs	184 docs citations	184 times ranked	5912 citing authors

#	Article	IF	Citations
1	Comparative lipoquinone analysis of influent sewage and activated sludge by high-performance liquid chromatography and photodiode array detection.. Journal of General and Applied Microbiology, 1996, 42, 457-469.	0.7	696
2	Direct automated sequencing of 16S rDNA amplified by polymerase chain reaction from bacterial cultures without DNA purification. Letters in Applied Microbiology, 1992, 15, 210-213.	2.2	362
3	Degradation of the cyanobacterial hepatotoxin microcystin by a new bacterium isolated from a hypertrophic lake. Environmental Toxicology, 2001, 16, 337-343.	4.0	237
4	Aerobic and Anaerobic Toluene Degradation by a Newly Isolated Denitrifying Bacterium, Thauera sp. Strain DNT-1. Applied and Environmental Microbiology, 2004, 70, 1385-1392.	3.1	207
5	Members of the Family Comamonadaceae as Primary Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate)-Degrading Denitrifiers in Activated Sludge as Revealed by a Polyphasic Approach. Applied and Environmental Microbiology, 2002, 68, 3206-3214.	3.1	205
6	Sphingosinicella microcystinivorans gen. nov., sp. nov., a microcystin-degrading bacterium. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 85-89.	1.7	197
7	Altered Quinone Biosynthesis in the Long-lived clk-1Mutants of Caenorhabditis elegans. Journal of Biological Chemistry, 2001, 276, 7713-7716.	3.4	189
8	Discovery of Natural Photosynthesis using Zn-Containing Bacteriochlorophyll in an Aerobic Bacterium Acidiphilium rubrum. Plant and Cell Physiology, 1996, 37, 889-893.	3.1	186
9	Paracoccus thiocyanatus sp. nov., a new species of thiocyanate-utilizing facultative chemolithotroph, and transfer of Thiobacillus versutus to the genus Paracoccus as Paracoccus versutus comb. nov. with emendation of the genus. Microbiology (United Kingdom), 1995, 141, 1469-1477.	1.8	159
10	Application of polyhydroxyalkanoates for denitrification in water and wastewater treatment. Applied Microbiology and Biotechnology, 2003, 61, 103-109.	3.6	152
11	A re-evaluation of the taxonomy of Paracoccus denitrificans and a proposal for the combination Paracoccus pantotrophus comb. nov.. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 645-651.	1.7	149
12	Quinone Profiling of Bacterial Communities in Natural and Synthetic Sewage Activated Sludge for Enhanced Phosphate Removal. Applied and Environmental Microbiology, 1998, 64, 992-998.	3.1	146
13	Horizontal transfer of genes coding for the photosynthetic reaction centers of purple bacteria. Journal of Molecular Evolution, 1997, 45, 131-136.	1.8	142
14	Isoprenoid quinones as biomarkers of microbial populations in the environment. Journal of Bioscience and Bioengineering, 1999, 88, 449-460.	2.2	125
15	Phylogenetic Characterization of a Polychlorinated-Dioxin- Dechlorinating Microbial Community by Use of Microcosm Studies. Applied and Environmental Microbiology, 2005, 71, 4325-4334.	3.1	125
16	Distribution of rhodoquinone in Rhodospirillaceae and its taxonomic implications.. Journal of General and Applied Microbiology, 1984, 30, 435-448.	0.7	118
17	Rhodoferax fermentans gen. nov., sp. nov., a phototrophic purple nonsulfur bacterium previously referred to as the ?Rhodocyclus gelatinosus-like? group. Archives of Microbiology, 1991, 155, 330.	2.2	116
18	Polymerase chain reaction amplification and restriction fragment length polymorphism analysis of 16S rRNA genes from methanogens. Journal of Bioscience and Bioengineering, 1995, 79, 523-529.	0.9	114

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19	Isoprenoid quinone composition in the classification of Rhodospirillaceae.. Journal of General and Applied Microbiology, 1984, 30, 197-210.	0.7	113
20	Phylogenetic Evidence for the Existence of Novel Thermophilic Bacteria in Hot Spring Sulfur-Turf Microbial Mats in Japan. Applied and Environmental Microbiology, 1998, 64, 1680-1687.	3.1	110
21	Dynamics of microcystin-degrading bacteria in mucilage of Microcystis. Microbial Ecology, 2003, 46, 279-288.	2.8	108
22	Respiratory quinone profiles as tools for identifying different bacterial populations in activated sludge.. Journal of General and Applied Microbiology, 1988, 34, 39-56.	0.7	104
23	Transfer of Acidiphilium facilis and Acidiphilium aminolytica to the Genus Acidocella gen. nov., and Emendation of the Genus Acidiphilium. Systematic and Applied Microbiology, 1995, 18, 85-91.	2.8	103
24	Biodiversity of Dehalorespiring Bacteria with Special Emphasis on Polychlorinated Biphenyl/Dioxin Dechlorinators. Microbes and Environments, 2008, 23, 1-12.	1.6	100
25	Plesiocystis pacifica gen. nov., sp. nov., a marine myxobacterium that contains dihydrogenated menaquinone, isolated from the Pacific coasts of Japan. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 189-195.	1.7	98
26	Distribution of phototrophic purple nonsulfur bacteria in activated sludge systems and other aquatic environments.. Nippon Suisan Gakkaishi, 1984, 50, 1929-1937.	0.1	89
27	Automated sequencing of PCR-amplified 16S rDNA on â€˜Hydrolinkâ€™ gels. Journal of Microbiological Methods, 1994, 19, 145-154.	1.6	89
28	Diaphorobacter nitroreducens gen. nov., sp. nov., a poly(3-hydroxybutyrate)-degrading denitrifying bacterium isolated from activated sludge.. Journal of General and Applied Microbiology, 2002, 48, 299-308.	0.7	87
29	Characterization of Porphyrobacter sanguineus sp. nov., an aerobic bacteriochlorophyll-containing bacterium capable of degrading biphenyl and dibenzofuran. Archives of Microbiology, 2002, 178, 45-52.	2.2	86
30	Anaerobic Degradation of Aromatic Compounds byMagnetospirillumStrains: Isolation and Degradation Genes. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1483-1491.	1.3	83
31	Enhygromyxa salina gen. nov., sp. nov., a Slightly Halophilic Myxobacterium Isolated from the Coastal Areas of Japan. Systematic and Applied Microbiology, 2003, 26, 189-196.	2.8	82
32	Novosphingobium naphthalenivorans sp. nov., a naphthalene-degrading bacterium isolated from polychlorinated-dioxin-contaminated environments. Journal of General and Applied Microbiology, 2007, 53, 221-228.	0.7	82
33	Acidiphilium multivorum sp. nov., an acidophilic chemoorganotrophic bacterium from pyritic acid mine drainage.. Journal of General and Applied Microbiology, 1994, 40, 143-159.	0.7	76
34	Terminal restriction pattern analysis of 16S rRNA genes for the characterization of bacterial communities of activated sludge. Journal of Bioscience and Bioengineering, 2000, 90, 148-156.	2.2	75
35	Unique Kinetic Properties of Phenol-Degrading Variovorax Strains Responsible for Efficient Trichloroethylene Degradation in a Chemostat Enrichment Culture. Applied and Environmental Microbiology, 2005, 71, 904-911.	3.1	74
36	Numerical analysis of lipoquinone patterns in monitoring bacterial community dynamics in wastewater treatment systems.. Journal of General and Applied Microbiology, 1991, 37, 57-70.	0.7	71

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37	Isolation and phylogenetic analysis of aerobic copiotrophic ultramicrobacteria from urban soil.. Journal of General and Applied Microbiology, 1998, 44, 75-84.	0.7	71
38	Nocardioides aromaticivorans sp. nov., a dibenzofuran-degrading bacterium isolated from dioxin-polluted environments. Systematic and Applied Microbiology, 2005, 28, 165-174.	2.8	69
39	Characterization of Phototrophic Purple Nonsulfur Bacteria Forming Colored Microbial Mats in a Swine Wastewater Ditch. Applied and Environmental Microbiology, 2006, 72, 6225-6233.	3.1	68
40	Graphene oxide-dependent growth and self-aggregation into a hydrogel complex of exoelectrogenic bacteria. Scientific Reports, 2016, 6, 21867.	3.3	67
41	Developmental changes in the respiratory chain of Ascaris mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1141, 65-74.	1.0	66
42	Chryseobacterium shigense sp. nov., a yellow-pigmented, aerobic bacterium isolated from a lactic acid beverage. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1903-1906.	1.7	65
43	Enhancement of Electricity Production by Graphene Oxide in Soil Microbial Fuel Cells and Plant Microbial Fuel Cells. Frontiers in Bioengineering and Biotechnology, 2015, 3, 42.	4.1	64
44	Isolation and Characterization of a New Denitrifying Spirillum Capable of Anaerobic Degradation of Phenol. Applied and Environmental Microbiology, 2000, 66, 1286-1291.	3.1	61
45	Aerobic anoxygenic photosynthetic bacteria with zinc-bacteriochlorophyll.. Journal of General and Applied Microbiology, 2001, 47, 161-180.	0.7	61
46	Isolation of Chloroflexus aurantiacus and related thermophilic phototrophic bacteria from Japanese hot springs using an improved isolation procedure.. Journal of General and Applied Microbiology, 1995, 41, 119-130.	0.7	59
47	Brachymonas denitrificans gen. nov., sp. nov., an aerobic chemoorganotrophic bacterium which contains rhodoquinones, and evolutionary relationships of rhodoquinone producers to bacterial species with various quinone classes.. Journal of General and Applied Microbiology, 1995, 41, 99-117.	0.7	58
48	Biodiversity of Dioxin-Degrading Microorganisms and Potential Utilization in Bioremediation.. Microbes and Environments, 2003, 18, 105-125.	1.6	55
49	Acidipila rosea gen. nov., sp. nov., an acidophilic chemoorganotrophic bacterium belonging to the phylum Acidobacteria. FEMS Microbiology Letters, 2011, 317, 138-142.	1.8	54
50	Molecular genetic analyses of Rhodobacter azotoformans sp. nov. and related species of phototrophic bacteria. Systematic and Applied Microbiology, 1996, 19, 168-177.	2.8	52
51	Changes in Quinone Profiles of Hot Spring Microbial Mats with a Thermal Gradient. Applied and Environmental Microbiology, 1999, 65, 198-205.	3.1	51
52	Activity and Community Composition of Denitrifying Bacteria in Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-Using Solid-phase Denitrification Processes. Microbes and Environments, 2007, 22, 20-31.	1.6	48
53	A Great Leap forward in Microbial Ecology. Microbes and Environments, 2010, 25, 230-240.	1.6	48
54	Raoultella electrica sp. nov., isolated from anodic biofilms of a glucose-fed microbial fuel cell. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 1384-1388.	1.7	44

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55	A New Approach to Numerical Analyses of Microbial Quinone Profiles in the Environment.. Microbes and Environments, 1998, 13, 67-76.	1.6	43
56	Microbial community dynamics during start-up operation of flowerpot-using fed-batch reactors for composting of household biowaste. Environmental Microbiology, 2003, 5, 765-776.	3.8	41
57	Distribution of bacteriochlorophylla in species of the genusAcidiphilium. Current Microbiology, 1993, 27, 277-279.	2.2	40
58	Phylogenetic position of the menaquinone-containing acidophilic chemo-organotrophAcidobacterium capsulatum. FEMS Microbiology Letters, 1995, 132, 91-94.	1.8	40
59	Nitrate Removal Efficiency and Bacterial Community Dynamics in Denitrification Processes Using Poly (<sc>L</sc>-lactic acid) as the Solid Substrate. Microbes and Environments, 2011, 26, 212-219.	1.6	39
60	Nucleotide Sequences of Genes Coding for Photosynthetic Reaction Centers and Light-Harvesting Proteins of Acidiphilium rubrum and Related Aerobic Acidophilic Bacteria. Plant and Cell Physiology, 1997, 38, 1249-1258.	3.1	38
61	Phylogenetic Distribution of Unusual Triheme to Tetraheme Cytochrome Subunit in the Reaction Center Complex of Purple Photosynthetic Bacteria. Photosynthesis Research, 2004, 79, 83-91.	2.9	38
62	Fumarate reduction systems in members of the family Rhodospirillaceae with different quinone types. Archives of Microbiology, 1988, 150, 56-60.	2.2	37
63	Occurrence of menaquinone as the sole isoprenoid quinone in the photosynthetic bacterium Heliobacterium chlorum. Archives of Microbiology, 1989, 151, 378-379.	2.2	37
64	Characterization of the Microbial Community and Culturable Denitrifying Bacteria in a Solid-phase Denitrification Process Using Poly(ε-caprolactone) as the Carbon and Energy Source. Microbes and Environments, 2005, 20, 25-33.	1.6	37
65	Capacity for polyphosphate accumulation of predominant bacteria in activated sludge showing enhanced phosphate removal. Journal of Bioscience and Bioengineering, 1990, 69, 368-371.	0.9	36
66	Microbial population dynamics during fed-batch operation of commercially available garbage composters. Applied Microbiology and Biotechnology, 2004, 65, 488-495.	3.6	34
67	Rhodoplanes serenus sp. nov., a purple non-sulfur bacterium isolated from pond water. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 531-535.	1.7	34
68	Characterization of Rhizobium naphthalenivorans sp. nov. with special emphasis on aromatic compound degradation and multilocus sequence analysis of housekeeping genes. Journal of General and Applied Microbiology, 2012, 58, 211-224.	0.7	34
69	Isolation and characterization of a new poly(3-hydroxybutyrate)-degrading, denitrifying bacterium from activated sludge. FEMS Microbiology Letters, 2001, 205, 253-257.	1.8	32
70	Distribution of Dibenzofuran-Degrading Bacteria in Soils Polluted with Different Levels of Polychlorinated Dioxins. Microbes and Environments, 2004, 19, 172-177.	1.6	32
71	Characterization of Extracellular RNAs Produced by the Marine Photosynthetic Bacterium Rhodovulum sulfidophilum. Journal of Biochemistry, 2006, 139, 805-811.	1.7	32
72	Bacteria of the Candidate Phylum TM7 are Prevalent in Acidophilic Nitrifying Sequencing-Batch Reactors. Microbes and Environments, 2014, 29, 353-362.	1.6	32

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73	Characterization of new denitrifying Rhodobacter strains isolated from photosynthetic sludge for wastewater treatment. Journal of Bioscience and Bioengineering, 1995, 79, 39-44.	0.9	31
74	Phylogenetic affiliations ofRhodoferax fermentans and related species of phototrophic bacteria as determined by automated 16S rDNA sequencing. Current Microbiology, 1994, 28, 25-29.	2.2	30
75	Effects of Organic Nutrient Strength on the Purple Nonsulfur Bacterial Content and Metabolic Activity of Photosynthetic Sludge for Wastewater Treatment. Journal of Bioscience and Bioengineering, 1989, 68, 269-276.	0.9	29
76	Phylogenetic characterization of a new thermoacidophilic bacterium isolated from hot springs in Japan.. Journal of General and Applied Microbiology, 1997, 43, 295-304.	0.7	28
77	Seasonal microbial community dynamics in a flowerpot-using personal composting system for disposal of household biowaste.. Journal of General and Applied Microbiology, 2000, 46, 133-146.	0.7	28
78	Rhodovastum atsumiense gen. nov., sp. nov., a phototrophic alphaproteobacterium isolated from paddy soil. Journal of General and Applied Microbiology, 2009, 55, 43-50.	0.7	28
79	Phylogenetic and Transcriptional Analyses of a Tetrachloroethene-Dechlorinating "Dehalococcoides" Enrichment Culture TUT2264 and Its Reductive-Dehalogenase Genes. Microbes and Environments, 2009, 24, 330-337.	1.6	28
80	Removal of polychlorinated dioxins by semi-aerobic fed-batch composting with biostimulation of â€œDehalococcoidesâ€• Journal of Bioscience and Bioengineering, 2010, 109, 249-256.	2.2	28
81	Isolation and Characterization of Phototrophic Purple Nonsulfur Bacteria from Chloroflexus and Cyanobacterial Mats in Hot Springs. Microbes and Environments, 2007, 22, 405-411.	1.6	27
82	Isolation and Functional Gene Analyses of Aromatic-Hydrocarbon-Degrading Bacteria from a Polychlorinated-Dioxin-Dechlorinating Process. Microbes and Environments, 2012, 27, 127-135.	1.6	27
83	Community structure and population dynamics of ammonia oxidizers in composting processes of ammonia-rich livestock waste. Systematic and Applied Microbiology, 2013, 36, 359-367.	2.8	27
84	An Improved Redox Dye-Staining Method Using 5-Cyano-2,3-Ditoryl Tetrazolium Chloride for Detection of Metabolically Active Bacteria in Activated Sludge. Microbes and Environments, 2004, 19, 61-70.	1.6	26
85	Reductive dechlorination of chloroethenes by Dehalococcoides-containing cultures enriched from a polychlorinated-dioxin-contaminated microcosm. ISME Journal, 2007, 1, 471-479.	9.8	26
86	Pseudoalteromonas sagamiensis sp. nov., a marine bacterium that produces protease inhibitors. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 1807-1811.	1.7	26
87	Isoprenoid quinones and fatty acids ofZoogloea. Antonie Van Leeuwenhoek, 1992, 61, 231-236.	1.7	25
88	Respiratory Chain of the Lung Fluke Paragonimus westermani - Facultative Anaerobic Mitochondria. Archives of Biochemistry and Biophysics, 1994, 312, 142-150.	3.0	25
89	Activity and Phylogenetic Composition of Proteolytic Bacteria in Mesophilic Fed-batch Garbage Composters. Microbes and Environments, 2004, 19, 292-300.	1.6	25
90	Biotransformation of Polychlorinated Dioxins and Microbial Community Dynamics in Sediment Microcosms at Different Contamination Levels. Microbes and Environments, 2005, 20, 227-242.	1.6	25

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91	Relationships of total coliform, fecal coliform, and organic pollution levels in the Tamagawa River.. Nippon Suisan Gakkaishi, 1984, 50, 991-997.	0.1	24
92	Distribution and Capacity for Utilization of Lower Fatty Acids of Phototrophic Purple Nonsulfur Bacteria in Wastewater Environments. Microbes and Environments, 2005, 20, 135-143.	1.6	24
93	Significance of Lipoquinones as Quantitative Biomarkers of Bacterial Populations in the Environment. Microbes and Environments, 2003, 18, 89-93.	1.6	23
94	Water Availability Is a Critical Determinant of a Population Shift from Proteobacteria to Actinobacteria during Start-Up Operation of Mesophilic Fed-Batch Composting. Microbes and Environments, 2007, 22, 279-289.	1.6	23
95	Effects of the growth medium composition on menaquinone homolog formation in Micrococcus luteus.. Journal of General and Applied Microbiology, 1989, 35, 311-318.	0.7	23
96	Polyphasic approaches to the identification of predominant polyphosphate-accumulating organisms in a laboratory-scale anaerobic/aerobic activated sludge system.. Journal of General and Applied Microbiology, 2002, 48, 43-54.	0.7	23
97	Complex II from phototrophic purple bacterium Rhodoferax fermentans displays rhodoquinol-fumarate reductase activity. FEBS Journal, 2003, 270, 1863-1874.	0.2	22
98	Enrichment and Phylogenetic Analysis of Moderately Thermophilic Myxobacteria from Hot Springs in Japan. Microbes and Environments, 2006, 21, 189-199.	1.6	22
99	High Culturability of Bacteria in Commercially Available Personal Composters for Fed-batch Treatment of Household Biowaste. Microbes and Environments, 2003, 18, 94-99.	1.6	21
100	Acidiphilium iwatense sp. nov., isolated from an acid mine drainage treatment plant, and emendation of the genus Acidiphilium. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 42-48.	1.7	21
101	Polyphosphate accumulation by Rhodobacter sphaeroides grown under different environmental conditions with special emphasis on the effect of external phosphate concentrations.. Bulletin of Japanese Society of Microbial Ecology, 1991, 6, 25-32.	0.1	20
102	Intrageneric relationships of members of the genus Rhodopseudomonas. Journal of General and Applied Microbiology, 2009, 55, 469-478.	0.7	20
103	Rapid profiling of bacterial quinones by two-dimensional thin-layer chromatography. Letters in Applied Microbiology, 1992, 14, 170-173.	2.2	19
104	Ecophysiology of Uncultured Filamentous Anaerobes Belonging to the Phylum KSB3 That Cause Bulking in Methanogenic Granular Sludge. Applied and Environmental Microbiology, 2011, 77, 2081-2087.	3.1	18
105	Characterization of thermotolerant purple nonsulfur bacteria isolated from hot-spring Chloroflexus mats and the reclassification of â€œRhodopseudomonas cryptolactisâ€• Stadtwald-Demchick et al.1990 as Rhodoplanes cryptolactis nom. rev., comb. nov.. Journal of General and Applied Microbiology, 2007, 53, 357-361.	0.7	18
106	Light-dependent porphyrin production by suspended and immobilized cells of Rhodobacter sphaeroides. Journal of Bioscience and Bioengineering, 1990, 69, 26-32.	0.9	17
107	Ultrastructure of the Acidophilic Aerobic Photosynthetic Bacterium Acidiphilium rubrum. Current Microbiology, 2000, 40, 398-401.	2.2	17
108	Enhanced Growth of Acidocella facilis and Related Acidophilic Bacteria at High Concentrations of Aluminum.. Microbes and Environments, 2002, 17, 98-104.	1.6	17

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109	Functional and structural analyses of trichloroethylene-degrading bacterial communities under different phenol-feeding conditions: laboratory experiments. Applied Microbiology and Biotechnology, 2003, 60, 594-600.	3.6	16
110	Removal of Hydrophobic Organic Contaminants from Aqueous Solutions by Sorption onto Biodegradable Polyesters. Journal of Water Resource and Protection, 2010, 02, 214-221.	0.8	15
111	Microbiology of Fed-batch Composting. Microbes and Environments, 2005, 20, 1-13.	1.6	14
112	Carotenoids in Rhodoplanes Species: Variation of Compositions and Substrate Specificity of Predicted Carotenogenesis Enzymes. Current Microbiology, 2012, 65, 150-155.	2.2	14
113	Characterization of thermotolerant phototrophic bacteria, Rhodoplanes tepidicaeni sp. nov. and Rhodoplanes azumiensis sp. nov., isolated from a geothermal spring. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 5038-5045.	1.7	14
114	Vertical distribution in and isolation of bacteria from Lake Vanda: an Antarctic lake. Hydrobiologia, 1986, 135, 15-21.	2.0	13
115	Use of Levulinic Acid byRhodopseudomonassp. No. 7 for Phototrophic Growth and Enhanced Hydrogen Evolution. Bioscience, Biotechnology and Biochemistry, 1993, 57, 720-723.	1.3	13
116	Estimation of "Dehalococcoides" Populations in Lake Sediment Contaminated with Low Levels of Polychlorinated Dioxins. Microbes and Environments, 2005, 20, 216-226.	1.6	13
117	Interspecies interactions are an integral determinant of microbial community dynamics. Frontiers in Microbiology, 2015, 6, 1148.	3.5	13
118	Rhodopseudomonas telluris sp. nov., a phototrophic alphaproteobacterium isolated from paddy soil. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 3369-3374.	1.7	12
119	Species composition and growth-temperature characteristics of coliforms in relation to their sources.. Journal of General and Applied Microbiology, 1982, 28, 139-154.	0.7	12
120	Quinone profiles in lake sediments. Implications for microbial diversity and community structures.. Journal of General and Applied Microbiology, 1999, 45, 221-227.	0.7	12
121	Highâ€performance liquid chromatographic analysis of demethylmenaquinone and menaquinone mixtures from bacteria. Journal of Applied Bacteriology, 1988, 64, 103-105.	1.1	11
122	Effects of 3,5-dichlorophenol on excess biomass reduction and bacterial community dynamics in activated sludge as revealed by a polyphasic approach. Journal of Bioscience and Bioengineering, 2016, 122, 467-474.	2.2	11
123	Rhodoplanes Hiraishi and Ueda 1994b, 671VP. , 0, , 545-549.		11
124	A Modified Cyanoditolyl Tetrazolium Reduction Method for Differential Detection of Metabolically Active Gram-positive and Gram-negative Bacteria. Microbes and Environments, 2006, 21, 272-277.	1.6	10
125	Combined Use of Cyanoditolyl Tetrazolium Staining and Flow Cytometry for Detection of Metabolically Active Bacteria in a Fed-batch Composting Process. Microbes and Environments, 2009, 24, 57-63.	1.6	10
126	Proposal of Rhodoplanes tepidamans sp. nov. to accommodate the thermotolerant phototrophic bacterium previously referred to as 'Rhodoplanes (Rhodopseudomonas) cryptolactis'. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1540-1545.	1.7	10

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127	Distribution of Phototrophic Purple Nonsulfur Bacteria in Massive Blooms in Coastal and Wastewater Ditch Environments. Microorganisms, 2020, 8, 150.	3.6	10
128	Bicarbonate-stimulated dark fermentative growth of a phototrophic purple nonsulfur bacterium. FEMS Microbiology Letters, 1988, 56, 199-202.	1.8	9
129	Effects of Chemical Uncouplers on Microbial Biomass Production, Metabolic Activity, and Community Structure in an Activated Sludge System.. Microbes and Environments, 2002, 17, 197-204.	1.6	9
130	Population Dynamics and Acetate Utilization Kinetics of Two Different Species of Phototrophic Purple Nonsulfur Bacteria in a Continuous Co-culture System. Microbes and Environments, 2007, 22, 82-87.	1.6	8
131	Porphyrobacter Fuerst, Hawkins, Holms, Sly, Moore and Stackebrandt 1993, 132VP. , 0, , 275-279.		8
132	Phylogenetic Analysis of Photosynthetic Reaction Centers of Purple Bacteria and Green Filamentous Bacteria. , 1995, , 975-978.		8
133	Terminal Restriction Pattern Analysis of 16S rRNA Genes for the Characterization of Bacterial Communities of Activated Sludge.. Journal of Bioscience and Bioengineering, 2000, 90, 148-156.	2.2	8
134	Isolation of rhodoquinone-containing chemoorganotrophic bacteria from activated sludge. FEMS Microbiology Letters, 1989, 58, 55-58.	1.8	7
135	Use of Polymerase Chain Reaction-amplified 16S rRNA Gene Sequences to Identify Pink-pigmented Bacteria Found in a Potable Water Treatment System.. Bulletin of Japanese Society of Microbial Ecology, 1994, 9, 55-65.	0.1	7
136	Acidiphilium Harrison 1981, 331 VP emend. Kishimoto, Kosako, Wakao, Tano and Hiraishi 1995b, 90. , 0, , 54-62.		7
137	Evaluation of Microbial Population Structures of Synthetic-Wastewater Activated Sludge and Plant-Scale Sewage Sludge on the Basis of Respiratory Quinone Profiles.. Japanese Journal of Water Treatment Biology, 1997, 33, 137-149.	0.1	6
138	Changes in the polyphosphate content of photosynthetically grown Rhodobacter sphaeroides due to nutrient limitation.. Agricultural and Biological Chemistry, 1985, 49, 3343-3345.	0.3	5
139	Influence of external orthophosphate concentrations on some kinetic properties of activated sludge in an anaerobic-aerobic system. Journal of Bioscience and Bioengineering, 1989, 67, 274-279.	0.9	5
140	Restriction Pattern Analysis by High-performance Liquid Chromatography of PCR-amplified 16S rDNA Fragments from Scum-forming Bacteria in Activated Sludge.. Microbes and Environments, 1997, 12, 57-68.	1.6	5
141	Title is missing!. Photosynthesis Research, 1999, 59, 255-256.	2.9	5
142	Distibution of viable but non-culturable bacteria in wastewater treatment systems.. Microbes and Environments, 1999, 14, 91-99.	1.6	5
143	In situ detection and identification of microorganisms at single-colony resolution by spectral imaging. Optical Review, 2008, 15, 285-291.	2.0	5
144	Isolation and characterization of a new poly(3-hydroxybutyrate)-degrading, denitrifying bacterium from activated sludge. FEMS Microbiology Letters, 2001, 205, 253-257.	1.8	5

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145	Photocatalytic Activity of AgBr as an Environmental Catalyst. Topics in Catalysis, 2013, 56, 618-622.	2.8	4
146	Rhodobium Hiraishi, Urata and Satoh 1995d, 230VP. , 0, , 571-574.		4
147	A new structural type of methionaquinones isolated from hot spring sulfur-turf bacterial mats.. Journal of General and Applied Microbiology, 1999, 45, 39-41.	0.7	4
148	Occurrence of Rahnella aquatilis, Psychrotrophic Coliforms, in Mountain Soils. Shokuhin Eiseigaku Zasshi Journal of the Food Hygienic Society of Japan, 1985, 26, 573-578_1.	0.2	3
149	Changes in the Polyphosphate Content of Photosynthetically GrownRhodobacter sphaeroidesDue to Nutrient Limitation. Agricultural and Biological Chemistry, 1985, 49, 3343-3345.	0.3	3
150	Exogenous pyrophosphate and polyphosphates used as energy sources for anaerobic removal of organic matter by activated sludge. Journal of Bioscience and Bioengineering, 1989, 68, 360-364.	0.9	3
151	Simultaneous formation of menaquinones and demethylmenaquinones byMicrococcus varians IAM 12146 depending on cell growth media. Current Microbiology, 1991, 22, 53-58.	2.2	3
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153	Cultural, Transcriptomic, and Proteomic Analyses of Water-Stressed Cells of Actinobacterial Strains Isolated from Compost: Ecological Implications in the Fed-Batch Composting Process. Microbes and Environments, 2016, 31, 127-136.	1.6	3
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