Bernhard Schink

List of Publications by Year
in descending order

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273 papers	17,400 citations	10986 71 h-index	20358 116 g-index

288 all docs	288 docs citations	288 times ranked	11770 citing authors

#	Article	IF	Citations
1	Quantification of archaea-driven freshwater nitrification from single cell to ecosystem levels. ISME Journal, 2022, 16, 1647-1656.	9.8	10
2	Activation of short-chain ketones and isopropanol in sulfate-reducing bacteria. BMC Microbiology, 2021, 21, 50.	3.3	2
3	Two Marine Desulfotomaculum spp. of Different Origin are Capable of Utilizing Acetone and Higher Ketones. Current Microbiology, 2021, 78, 1763-1770.	2.2	2
4	Pelorhabdus rhamnosifermentans gen. nov., sp. nov., a strictly anaerobic rhamnose degrader from freshwater lake sediment. Systematic and Applied Microbiology, 2021, 44, 126225.	2.8	8
5	Phosphitispora fastidiosa gen. nov. sp. nov., a new dissimilatory phosphite-oxidizing anaerobic bacterium isolated from anaerobic sewage sludge. International Journal of Systematic and Evolutionary Microbiology, 2021, 71, .	1.7	14
6	Microbial degradation of phthalates: biochemistry and environmental implications. Environmental Microbiology Reports, 2020, 12, 3-15.	2.4	98
7	Desulfatiglans anilini Initiates Degradation of Aniline With the Production of Phenylphosphoamidate and 4-Aminobenzoate as Intermediates Through Synthases and Carboxylases From Different Gene Clusters. Frontiers in Microbiology, 2020, 11, 2064.	3.5	2
8	Resorcinol Hydroxylase of Azoarcus anaerobius: Molybdenum Dependence, Activity, and Heterologous Expression. Current Microbiology, 2020, 77, 3385-3396.	2.2	4
9	Desulfolutivibrio sulfoxidireducens gen. nov., sp. nov., isolated from a pyrite-forming enrichment culture and reclassification of Desulfovibrio sulfodismutans as Desulfolutivibrio sulfodismutans comb. nov. Systematic and Applied Microbiology, 2020, 43, 126105.	2.8	26
10	Physiological limits to life in anoxic subseafloor sediment. FEMS Microbiology Reviews, 2020, 44, 219-231.	8.6	27
11	Use of Greek in the prokaryotic nomenclature: proposal to change Principle 3, Recommendation 6, Rule 7, Rule 65 and Appendix 9 of the International Code of Nomenclature of Prokaryotes. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 3559-3560.	1.7	2
12	Further guidelines for the formation of compound specific and subspecific epithets. A proposal to emend Appendix 9 of the International Code of Nomenclature of Prokaryotes. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 3561-3562.	1.7	1
13	Methanogens: Syntrophic Metabolism. , 2019, , 179-209.		1
14	Serious mismatches continue between science and policy in forest bioenergy. GCB Bioenergy, 2019, 11, 1256-1263.	5.6	82
15	Enzymes involved in phthalate degradation in sulphateâ€reducing bacteria. Environmental Microbiology, 2019, 21, 3601-3612.	3.8	22
16	Pyrite formation from FeS and H ₂ S is mediated through microbial redox activity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6897-6902.	7.1	106
17	Alternative Pathways of Acetogenic Ethanol and Methanol Degradation in the Thermophilic Anaerobe Thermacetogenium phaeum. Frontiers in Microbiology, 2019, 10, 423.	3.5	23
18	Energy-Conserving Enzyme Systems Active During Syntrophic Acetate Oxidation in the Thermophilic Bacterium Thermacetogenium phaeum. Frontiers in Microbiology, 2019, 10, 2785.	3.5	11

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19	Anaerobic degradation of xenobiotic isophthalate by the fermenting bacterium Syntrophorhabdus aromaticivorans. ISME Journal, 2019, 13, 1252-1268.	9.8	43
20	Naming classes of prokaryotes based on the rules of Latin grammar. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 1526-1527.	1.7	4
21	Introduction to Microbial Hydrocarbon Production: Bioenergetics. , 2019, , 1-17.		0
22	The use of Greek and Latin prepositions and prefixes in compound names: proposed emendation of Appendix 9 of the International Code of Nomenclature of Prokaryotes. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 1831-1832.	1.7	2
23	Two enzymes of the acetone degradation pathway of Desulfococcus biacutus: coenzyme B₁₂â€dependent 2â€hydroxyisobutyrylâ€CoA mutase and 3â€hydroxybutyrylâ€CoA dehydrogenase. Environmental Microbiology Reports, 2018, 10, 283-292.	2.4	6
24	Methanogens: Syntrophic Metabolism. , 2018, , 1-31.		4
25	Synthesis of short-chain hydroxyaldehydes and their 2,4-dinitrophenylhydrazone derivatives, and separation of their isomers by high-performance liquid chromatography. Journal of Chromatography A, 2018, 1531, 143-150.	3.7	6
26	Syntrophy in Methanogenic Degradation. Microbiology Monographs, 2018, , 153-192.	0.6	5
27	Editorial to the thematic issue climate change and microbiology. FEMS Microbiology Letters, 2018, 365, .	1.8	1
28	Formate and Hydrogen as Electron Shuttles in Terminal Fermentations in an Oligotrophic Freshwater Lake Sediment. Applied and Environmental Microbiology, 2018, 84, .	3.1	13
29	Introduction to Microbial Hydrocarbon Production: Bioenergetics. , 2018, , 1-17.		0
30	Proposal of the suffix â€“ota to denote phyla. Addendum to â€˜Proposal to include the rank of phylum in the International Code of Nomenclature of Prokaryotesâ€™. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 967-969.	1.7	136
31	Hydrogen or formate: Alternative key players in methanogenic degradation. Environmental Microbiology Reports, 2017, 9, 189-202.	2.4	67
32	Glycerol and mixture of carbon sources conversion to hydrogen by Clostridium beijerinckii DSM791 and effects of various heavy metals on hydrogenase activity. International Journal of Hydrogen Energy, 2017, 42, 7875-7882.	7.1	35
33	High-quality-draft genome sequence of the fermenting bacterium Anaerobium acetethylicum type strain GluBS11T (DSM 29698). Standards in Genomic Sciences, 2017, 12, 24.	1.5	6
34	Cloning, functional expression and characterization of a bifunctional 3-hydroxybutanal dehydrogenase /reductase involved in acetone metabolism by Desulfococcus biacutus. BMC Microbiology, 2016, 16, 280.	3.3	7
35	Genomics of a phototrophic nitrite oxidizer: insights into the evolution of photosynthesis and nitrification. ISME Journal, 2016, 10, 2669-2678.	9.8	32
36	Enzymes involved in the anaerobic degradation of orthoâ€phthalate by the nitrateâ€reducing bacterium Azoarcus sp. strain PA01. Environmental Microbiology, 2016, 18, 3175-3188.	3.8	42

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37	Methane release from sediment seeps to the atmosphere is counteracted by highly active Methylococcaceae in the water column of deep oligotrophic Lake Constance. FEMS Microbiology Ecology, 2016, 92, fiw123.	2.7	19
38	Anaerobic Microbial Degradation of Hydrocarbons: From Enzymatic Reactions to the Environment. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 5-28.	1.0	615
39	Activation of Acetone and Other Simple Ketones in Anaerobic Bacteria. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 152-164.	1.0	15
40	Biogas process parametersâ€"energetics and kinetics of secondary fermentations in methanogenic biomass degradation. Applied Microbiology and Biotechnology, 2016, 100, 1019-1026.	3.6	22
41	Notes on the use of Greek word roots in genus and species names of prokaryotes. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 2129-2140.	1.7	11
42	Draft genome sequence of a nitrate-reducing, o-phthalate degrading bacterium, Azoarcus sp. strain PA01T. Standards in Genomic Sciences, 2015, 10, 90.	1.5	26
43	Life under extreme energy limitation: a synthesis of laboratory- and field-based investigations. FEMS Microbiology Reviews, 2015, 39, 688-728.	8.6	288
44	Bacillus stamsii sp. nov., a facultatively anaerobic sugar degrader that is numerically dominant in freshwater lake sediment. Systematic and Applied Microbiology, 2015, 38, 379-389.	2.8	17
45	Identification of the Gene Cluster for the Anaerobic Degradation of 3,5-Dihydroxybenzoate (Î±-Resorcylate) in Thauera aromatica Strain AR-1. Applied and Environmental Microbiology, 2015, 81, 7201-7214.	3.1	21
46	Draft genome of Elstera litoralis, a freshwater epilithic biofilm associated bacterium from littoral zone of Lake Constance. Marine Genomics, 2015, 24, 223-224.	1.1	2
47	Desulfoprunum benzoelyticum gen. nov., sp. nov., a Gram-stain-negative, benzoate-degrading, sulfate-reducing bacterium isolated from a wastewater treatment plant. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 77-84.	1.7	36
48	Anaerobium acetethylicum gen. nov., sp. nov., a strictly anaerobic, gluconate-fermenting bacterium isolated from a methanogenic bioreactor. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 3289-3296.	1.7	33
49	Proposal to include the rank of phylum in the International Code of Nomenclature of Prokaryotes. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 4284-4287.	1.7	84
50	Degradation of Acetaldehyde and Its Precursors by Pelobacter carbinolicus and P. acetylenicus. PLoS ONE, 2014, 9, e115902.	2.5	31
51	Anaerobic methane oxidation coupled to denitrification is the dominant methane sink in a deep lake. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18273-18278.	7.1	210
52	Thiamine Pyrophosphate Stimulates Acetone Activation by Desulfococcus biacutus As Monitored by a Fluorogenic ATP Analogue. ACS Chemical Biology, 2014, 9, 1263-1266.	3.4	15
53	Acetone utilization by sulfate-reducing bacteria: draft genome sequence of Desulfococcus biacutus and a proteomic survey of acetone-inducible proteins. BMC Genomics, 2014, 15, 584.	2.8	15
54	The Family Syntrophomonadaceae. , 2014, , 371-379.		14

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55	Life based on phosphite: a genome-guided analysis of Desulfotignum phosphitoxidans. BMC Genomics, 2013, 14, 753.	2.8	35
56	Syntrophism Among Prokaryotes. , 2013, , 471-493.		107
57	Carbonylation as a Key Reaction in Anaerobic Acetone Activation by Desulfococcus biacutus. Applied and Environmental Microbiology, 2013, 79, 6228-6235.	3.1	16
58	A Proteomic View at the Biochemistry of Syntrophic Butyrate Oxidation in Syntrophomonas wolfei. PLoS ONE, 2013, 8, e56905.	2.5	98
59	Proposal to change the name Rhodoligotrophos Fukuda et al. 2012, 1947 to Rhodoligotrophus. Request for an Opinion. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 3545-3545.	1.7	5
60	Elstera litoralis gen. nov., sp. nov., isolated from stone biofilms of Lake Constance, Germany. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1750-1754.	1.7	32
61	Genome-guided analysis of physiological and morphological traits of the fermentative acetate oxidizer Thermacetogenium phaeum. BMC Genomics, 2012, 13, 723.	2.8	64
62	Different strategies in anaerobic biodegradation of aromatic compounds: nitrate reducers versus strict anaerobes. Environmental Microbiology Reports, 2012, 4, 469-478.	2.4	72
63	The bacterial microbiota in the ceca of Capercaillie (Tetrao urogallus) differs between wild and captive birds. Systematic and Applied Microbiology, 2011, 34, 542-551.	2.8	106
64	Exploring the Active Site of the Tungsten, Iron-Sulfur Enzyme Acetylene Hydratase. Journal of Bacteriology, 2011, 193, 1229-1236.	2.2	47
65	Mass spectrometric protein identification from two-dimensional gel separation with stain-free detection and visualization using native fluorescence. International Journal of Mass Spectrometry, 2011, 301, 22-28.	1.5	7
66	Nitrate-Dependent Degradation of Acetone by Alicycliphilus and Paracoccus Strains and Comparison of Acetone Carboxylase Enzymes. Applied and Environmental Microbiology, 2011, 77, 6821-6825.	3.1	26
67	Anaerobic Oxidation of Methane in Sediments of Lake Constance, an Oligotrophic Freshwater Lake. Applied and Environmental Microbiology, 2011, 77, 4429-4436.	3.1	192
68	Activity and Diversity of Methanotrophic Bacteria at Methane Seeps in Eastern Lake Constance Sediments. Applied and Environmental Microbiology, 2011, 77, 2573-2581.	3.1	47
69	Uptake and release of phosphate by littoral sediment of a freshwater lake under the influence of light or mechanical perturbation. Journal of Limnology, 2010, 69, 54.	1.1	13
70	Identification and Heterologous Expression of Genes Involved in Anaerobic Dissimilatory Phosphite Oxidation by Desulfotignum phosphitoxidans. Journal of Bacteriology, 2010, 192, 5237-5244.	2.2	27
71	Syntrophy in Methanogenic Degradation. Microbiology Monographs, 2010, , 143-173.	0.6	28
72	Syntrophic butyrate and propionate oxidation processes: from genomes to reaction mechanisms. Environmental Microbiology Reports, 2010, 2, 489-499.	2.4	238

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73	Anaerobic phototrophic nitrite oxidation by Thiocapsa sp. strain KS1 and Rhodopseudomonas sp. strain LQ17. Microbiology (United Kingdom), 2010, 156, 2428-2437.	1.8	57
74	Involvement of NADH:Acceptor Oxidoreductase and Butyryl Coenzyme A Dehydrogenase in Reversed Electron Transport during Syntrophic Butyrate Oxidation by Syntrophomonas wolfei. Journal of Bacteriology, 2009, 191, 6167-6177.	2.2	56
75	Syntrophic Degradation of Cadaverine by a Defined Methanogenic Coculture. Applied and Environmental Microbiology, 2009, 75, 4821-4828.	3.1	12
76	â€œUnknown Genomeâ€•Proteomics. Molecular and Cellular Proteomics, 2009, 8, 122-131.	3.8	10
77	An alternative to the glyoxylate shunt. Molecular Microbiology, 2009, 73, 975-977.	2.5	6
78	Ecophysiology and the energetic benefit of mixotrophic Fe(II) oxidation by various strains of nitrate-reducing bacteria. FEMS Microbiology Ecology, 2009, 70, 335-343.	2.7	152
79	Anaerobic degradation of naphthalene and 2â€•methylnaphthalene by strains of marine sulfateâ€•reducing bacteria. Environmental Microbiology, 2009, 11, 209-219.	3.8	177
80	Physiology, Ecology, Phylogeny, and Genomics of Microorganisms Capable of Syntrophic Metabolism. Annals of the New York Academy of Sciences, 2008, 1125, 58-72.	3.8	342
81	Dominant sugar utilizers in sediment of Lake Constance depend on syntrophic cooperation with methanogenic partner organisms. Environmental Microbiology, 2008, 10, 1501-1511.	3.8	45
82	Bacteria Associated with Benthic Diatoms from Lake Constance: Phylogeny and Influences on Diatom Growth and Secretion of Extracellular Polymeric Substances. Applied and Environmental Microbiology, 2008, 74, 7740-7749.	3.1	128
83	Comparison of Aerobic Methanotrophic Communities in Littoral and Profundal Sediments of Lake Constance by a Molecular Approach. Applied and Environmental Microbiology, 2007, 73, 4389-4394.	3.1	41
84	Heterologous Expression and Identification of the Genes Involved in Anaerobic Degradation of 1,3-Dihydroxybenzene (Resorcinol) in Azoarcus anaerobius. Journal of Bacteriology, 2007, 189, 3824-3833.	2.2	24
85	Methylosoma difficile gen. nov., sp. nov., a novel methanotroph enriched by gradient cultivation from littoral sediment of Lake Constance. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 1073-1080.	1.7	87
86	Growth Yields in Bacterial Denitrification and Nitrate Ammonification. Applied and Environmental Microbiology, 2007, 73, 1420-1424.	3.1	234
87	Structure of the non-redox-active tungsten/[4Fe:4S] enzyme acetylene hydratase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3073-3077.	7.1	135
88	Nitrite, an Electron Donor for Anoxygenic Photosynthesis. Science, 2007, 316, 1870-1870.	12.6	78
89	Syntrophic Associations in Methanogenic Degradation. , 2006, 41, 1-19.		40
90	Syntrophism among Prokaryotes. , 2006, , 309-335.		139

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91	Mechanism of anaerobic degradation of triethanolamine by a homoacetogenic bacterium. Biochemical and Biophysical Research Communications, 2006, 349, 480-484.	2.1	10
92	Acetylene degradation by new isolates of aerobic bacteria and comparison of acetylene hydratase enzymes. FEMS Microbiology Letters, 2006, 148, 175-180.	1.8	35
93	Enzyme activities in and energetics of acetate metabolism by the mesophilic syntrophically acetate-oxidizing anaerobe Clostridium ultunense. FEMS Microbiology Letters, 2006, 154, 331-336.	1.8	15
94	The gut microflora of Reticulitermes flavipes, its relation to oxygen, and evidence for oxygen-dependent acetogenesis by the most abundant Enterococcus sp.. FEMS Microbiology Ecology, 2006, 24, 137-149.	2.7	103
95	Cultivation of methanotrophic bacteria in opposing gradients of methane and oxygen. FEMS Microbiology Ecology, 2006, 56, 331-344.	2.7	61
96	Cell aggregation of Pseudomonas aeruginosa strain PAO1 as an energy-dependent stress response during growth with sodium dodecyl sulfate. Archives of Microbiology, 2006, 185, 417-427.	2.2	71
97	A modified diffusion-based methane sensor and its application in freshwater sediment. Limnology and Oceanography: Methods, 2006, 4, 275-283.	2.0	5
98	The Genus Pelobacter. , 2006, , 5-11.		13
99	The Genus Propionigenium. , 2006, , 955-959.		5
100	Principles of Anaerobic Degradation of Organic Compounds. , 2005, , 229-257.		1
101	Dynamics of Redox Changes of Iron Caused by Lightâ€“dark Variations in Littoral Sediment of a Freshwater Lake. Biogeochemistry, 2005, 74, 323-339.	3.5	38
102	Redox Changes of Iron Caused by Erosion, Resuspension and Sedimentation in Littoral Sediment of a Freshwater Lake. Biogeochemistry, 2005, 74, 341-356.	3.5	25
103	Crystallization and preliminary X-ray analysis of the tungsten-dependent acetylene hydratase fromPelobacter acetylenicus. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 299-301.	0.7	13
104	Novel bacterial molybdenum and tungsten enzymes: three-dimensional structure, spectroscopy, and reaction mechanism. Biological Chemistry, 2005, 386, 999-1006.	2.5	36
105	Operation of the CO Dehydrogenase/Acetyl Coenzyme A Pathway in both Acetate Oxidation and Acetate Formation by the Syntrophically Acetate-Oxidizing Bacterium Thermacetogenium phaeum. Journal of Bacteriology, 2005, 187, 3471-3476.	2.2	121
106	Enrichment and Isolation of Ferricâ€Ironâ€and Humicâ€Acidâ€Reducing Bacteria. Methods in Enzymology, 2005, 397, 58-77.	1.0	48
107	pmoA -Based Analysis of Methanotrophs in a Littoral Lake Sediment Reveals a Diverse and Stable Community in a Dynamic Environment. Applied and Environmental Microbiology, 2004, 70, 3138-3142.	3.1	85
108	Ferrihydrite-Dependent Growth of Sulfurospirillum deleyianum through Electron Transfer via Sulfur Cycling. Applied and Environmental Microbiology, 2004, 70, 5744-5749.	3.1	114

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109	Stable Isotope Fractionation Caused by Glycyl Radical Enzymes during Bacterial Degradation of Aromatic Compounds. Applied and Environmental Microbiology, 2004, 70, 2935-2940.	3.1	64
110	Crystal structure of pyrogallol-phloroglucinol transhydroxylase, an Mo enzyme capable of intermolecular hydroxyl transfer between phenols. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11571-11576.	7.1	52
111	Degradation of o -xylene and m -xylene by a novel sulfate-reducer belonging to the genus Desulfotomaculum. Archives of Microbiology, 2004, 181, 407-417.	2.2	119
112	Ferrihydrite reduction by Geobacter species is stimulated by secondary bacteria. Archives of Microbiology, 2004, 182, 175-81.	2.2	27
113	Electron shuttling via humic acids in microbial iron(III) reduction in a freshwater sediment. FEMS Microbiology Ecology, 2004, 47, 85-92.	2.7	313
114	Preferential cultivation of type II methanotrophic bacteria from littoral sediments (Lake Constance). FEMS Microbiology Ecology, 2004, 47, 179-189.	2.7	57
115	Diversity of Ferrous Iron-Oxidizing, Nitrate-Reducing Bacteria and their Involvement in Oxygen-Independent Iron Cycling. Geomicrobiology Journal, 2004, 21, 371-378.	2.0	227
116	Stereochemistry of the Conversion of 2-Phenoxyethanol into Phenol and Acetaldehyde byAcetobacterium sp.. Helvetica Chimica Acta, 2003, 86, 2629-2636.	1.6	7
117	Evaluation of electron-shuttling compounds in microbial ferric iron reduction. FEMS Microbiology Letters, 2003, 220, 229-233.	1.8	52
118	Mechanism of Anaerobic Ether Cleavage. Journal of Biological Chemistry, 2002, 277, 11684-11690.	3.4	13
119	Carbon and Hydrogen Stable Isotope Fractionation during Aerobic Bacterial Degradation of Aromatic Hydrocarbons. Applied and Environmental Microbiology, 2002, 68, 5191-5194.	3.1	123
120	Cysteine-Mediated Reductive Dissolution of Poorly Crystalline Iron(III) Oxides by Geobacter sulfurreducens. Environmental Science & Technology, 2002, 36, 2939-2945.	10.0	101
121	Cysteine-mediated electron transfer in syntrophic acetate oxidation by cocultures of Geobacter sulfurreducens and Wolinella succinogenes. Archives of Microbiology, 2002, 178, 53-58.	2.2	100
122	Desulfotignum phosphitoxidans sp. nov., a new marine sulfate reducer that oxidizes phosphite to phosphate. Archives of Microbiology, 2002, 177, 381-391.	2.2	113
123	Crystallization and preliminary X-ray analysis of the molybdenum-dependent pyrogallol-phloroglucinol transhydroxylase ofPelobacter acidigallici. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 343-345.	2.5	3
124	Energetics and kinetics of lactate fermentation to acetate and propionate via methylmalonyl-CoA or acrylyl-CoA. FEMS Microbiology Letters, 2002, 211, 65-70.	1.8	169
125	Anaerobic degradation of protocatechuate (3,4-dihydroxybenzoate) byThauera aromaticastrain AR-1. FEMS Microbiology Letters, 2002, 212, 139-143.	1.8	25
126	Synergistic interactions in the microbial world. Antonie Van Leeuwenhoek, 2002, 81, 257-261.	1.7	264

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127	Synergistic interactions in the microbial world. , 2002, 81, 257.		1
128	Dynamics in composition and size-class distribution of humic substances in profundal sediments of Lake Constance. Organic Geochemistry, 2001, 32, 3-10.	1.8	22
129	Factors influencing the cultivability of lake water bacteria. Journal of Microbiological Methods, 2001, 47, 41-50.	1.6	57
130	Iron metabolism in anoxic environments at near neutral pH. FEMS Microbiology Ecology, 2001, 34, 181-186.	2.7	400
131	Ferrous iron oxidation by denitrifying bacteria in profundal sediments of a deep lake (Lake Constance). FEMS Microbiology Ecology, 2001, 37, 127-134.	2.7	98
132	Initiation of Anaerobic Degradation of p -Cresol by Formation of 4-Hydroxybenzylsuccinate in Desulfobacterium cetonicum. Journal of Bacteriology, 2001, 183, 752-757.	2.2	78
133	Stable Hydrogen and Carbon Isotope Fractionation during Microbial Toluene Degradation: Mechanistic and Environmental Aspects. Applied and Environmental Microbiology, 2001, 67, 4842-4849.	3.1	146
134	Iron metabolism in anoxic environments at near neutral pH. FEMS Microbiology Ecology, 2001, 34, 181-186.	2.7	22
135	Ferrous iron oxidation by denitrifying bacteria in profundal sediments of a deep lake (Lake Constance). FEMS Microbiology Ecology, 2001, 37, 127-134.	2.7	5
136	Phosphite oxidation by sulphate reduction. Nature, 2000, 406, 37-37.	27.8	124
137	Initial steps in the fermentation of 3-hydroxybenzoate by Sporotomaculum hydroxybenzoicum. Archives of Microbiology, 2000, 173, 288-295.	2.2	23
138	Oxidation of acetate through reactions of the citric acid cycle by Geobacter sulfurreducens in pure culture and in syntrophic coculture. Archives of Microbiology, 2000, 174, 314-321.	2.2	126
139	Two distinct pathways for anaerobic degradation of aromatic compounds in the denitrifying bacterium Thauera aromatica strain AR-1. Archives of Microbiology, 2000, 173, 91-96.	2.2	31
140	Hydroxyhydroquinone reductase, the initial enzyme involved in the degradation of hydroxyhydroquinone (1,2,4-trihydroxybenzene) by Desulfovibrio inopinatus. Archives of Microbiology, 2000, 173, 206-212.	2.2	19
141	Respiration of 2,4,6-Trinitrotoluene by Pseudomonassp. Strain JLR11. Journal of Bacteriology, 2000, 182, 1352-1355.	2.2	73
142	Anaerobic Naphthalene Degradation by a Sulfate-Reducing Enrichment Culture. Applied and Environmental Microbiology, 2000, 66, 2743-2747.	3.1	223
143	13C/12C isotope fractionation of aromatic hydrocarbons during microbial degradation. Environmental Microbiology, 1999, 1, 409-414.	3.8	139
144	Acetylene hydratase of Pelobacter acetylenicus . Molecular and spectroscopic properties of the tungsten iron-sulfur enzyme. FEBS Journal, 1999, 264, 176-182.	0.2	68

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145	Net synthesis of acetate from CO2byEubacterium acidaminophilumthrough the glycine reductase pathway. FEMS Microbiology Letters, 1999, 177, 1-6.	1.8	16
146	Energetics and biochemistry of fermentative benzoate degradation by Syntrophus gentianae. Archives of Microbiology, 1999, 171, 331-337.	2.2	52
147	Anaerobic degradation of m -cresol by Desulfobacterium cetonicum is initiated by formation of 3-hydroxybenzylsuccinate. Archives of Microbiology, 1999, 172, 287-294.	2.2	73
148	Towards the reaction mechanism of pyrogallolâ€“phloroglucinol transhydroxylase of Pelobacter acidigallici. BBA - Proteins and Proteomics, 1999, 1430, 245-253.	2.1	20
149	Mechanistic aspects of molybdenum-containing enzymes. FEMS Microbiology Reviews, 1998, 22, 489-501.	8.6	71
150	Membrane-bound proton-translocating pyrophosphatase of Syntrophus gentianae, a syntrophically benzoate-degrading fermenting bacterium. FEBS Journal, 1998, 256, 589-594.	0.2	57
151	The Fermenting Bacterium Malonomonas rubra is Phylogenetically Related to Sulfur-Reducing Bacteria and Contains a c-Type Cytochrome similar to those of Sulfur and Sulfate Reducers. Systematic and Applied Microbiology, 1998, 21, 340-345.	2.8	17
152	Anaerobic and aerobic oxidation of ferrous iron at neutral pH by chemoheterotrophic nitrate-reducing bacteria. Archives of Microbiology, 1998, 169, 159-165.	2.2	234
153	Phototrophic oxidation of ferrous iron by a Rhodomicrobium vannielii strain. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	101
154	Growth of Geobacter sulfurreducens with Acetate in Syntrophic Cooperation with Hydrogen-Oxidizing Anaerobic Partners. Applied and Environmental Microbiology, 1998, 64, 2232-2236.	3.1	189
155	Mechanistic aspects of molybdenum-containing enzymes. FEMS Microbiology Reviews, 1998, 22, 489-501.	8.6	2
156	Humic Acid Reduction by Propionibacterium freudenreichii and Other Fermenting Bacteria. Applied and Environmental Microbiology, 1998, 64, 4507-4512.	3.1	204
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