

# Bernhard Schink

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

283  
papers

13,598  
citations

66  
h-index

104  
g-index

286  
ext. papers

15,406  
ext. citations

4.4  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
283	Two Marine Desulfotomaculum spp. of Different Origin are Capable of Utilizing Acetone and Higher Ketones. <i>Current Microbiology</i> , <b>2021</b> , 78, 1763-1770	2.4	0
282	Activation of short-chain ketones and isopropanol in sulfate-reducing bacteria. <i>BMC Microbiology</i> , <b>2021</b> , 21, 50	4.5	1
281	Pelorhabdus rhamnosifermentans gen. nov., sp. nov., a strictly anaerobic rhamnose degrader from freshwater lake sediment. <i>Systematic and Applied Microbiology</i> , <b>2021</b> , 44, 126225	4.2	0
280	gen. nov. sp. nov., a new dissimilatory phosphite-oxidizing anaerobic bacterium isolated from anaerobic sewage sludge. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2021</b> , 71,	2.2	1
279	Anaerobium <b>2020</b> , 1-7		
278	Desulfolutivibrio sulfoxidireducens gen. nov., sp. nov., isolated from a pyrite-forming enrichment culture and reclassification of Desulfovibrio sulfodismutans as Desulfolutivibrio sulfodismutans comb. nov. <i>Systematic and Applied Microbiology</i> , <b>2020</b> , 43, 126105	4.2	10
277	Physiological limits to life in anoxic seafloor sediment. <i>FEMS Microbiology Reviews</i> , <b>2020</b> , 44, 219-231	15.1	10
276	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. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2020</b> , 70, 3559-3560	2.2	1
275	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. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2020</b> , 70, 3561-3562	2.2	
274	Initiates Degradation of Aniline With the Production of Phenylphosphoamidate and 4-Aminobenzoate as Intermediates Through Synthases and Carboxylases From Different Gene Clusters. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 2064	5.7	1
273	Resorcinol Hydroxylase of Azoarcus anaerobius: Molybdenum Dependence, Activity, and Heterologous Expression. <i>Current Microbiology</i> , <b>2020</b> , 77, 3385-3396	2.4	0
272	Microbial degradation of phthalates: biochemistry and environmental implications. <i>Environmental Microbiology Reports</i> , <b>2020</b> , 12, 3-15	3.7	38
271	Serious mismatches continue between science and policy in forest bioenergy. <i>GCB Bioenergy</i> , <b>2019</b> , 11, 1256-1263	5.6	55
270	Enzymes involved in phthalate degradation in sulphate-reducing bacteria. <i>Environmental Microbiology</i> , <b>2019</b> , 21, 3601-3612	5.2	16
269	Pyrite formation from FeS and HS is mediated through microbial redox activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6897-6902	11.5	55
268	Alternative Pathways of Acetogenic Ethanol and Methanol Degradation in the Thermophilic Anaerobe. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 423	5.7	15
267	Methanogens: Syntrophic Metabolism <b>2019</b> , 179-209		

266	Introduction to Microbial Hydrocarbon Production: Bioenergetics <b>2019</b> , 1-17		
265	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. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2019</b> , 69, 1831-1832	2.2	1
264	Naming classes of prokaryotes based on the rules of Latin grammar. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2019</b> , 69, 1526-1527	2.2	4
263	Energy-Conserving Enzyme Systems Active During Syntrophic Acetate Oxidation in the Thermophilic Bacterium. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 2785	5.7	4
262	Anaerobic degradation of xenobiotic isophthalate by the fermenting bacterium <i>Syntrophorhabdus aromaticivorans</i> . <i>ISME Journal</i> , <b>2019</b> , 13, 1252-1268	11.9	30
261	Two enzymes of the acetone degradation pathway of <i>Desulfococcus biacutus</i> : coenzyme B-dependent 2-hydroxyisobutyryl-CoA mutase and 3-hydroxybutyryl-CoA dehydrogenase. <i>Environmental Microbiology Reports</i> , <b>2018</b> , 10, 283-292	3.7	4
260	Methanogens: Syntrophic Metabolism <b>2018</b> , 1-31		3
259	Formate and Hydrogen as Electron Shuttles in Terminal Fermentations in an Oligotrophic Freshwater Lake Sediment. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	7
258	Introduction to Microbial Hydrocarbon Production: Bioenergetics <b>2018</b> , 1-17		
257	Proposal of the suffix -ota to denote phyla. Addendum to 'Proposal to include the rank of phylum in the International Code of Nomenclature of Prokaryotes'. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2018</b> , 68, 967-969	2.2	50
256	Synthesis of short-chain hydroxyaldehydes and their 2,4-dinitrophenylhydrazone derivatives, and separation of their isomers by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>2018</b> , 1531, 143-150	4.5	4
255	Syntrophy in Methanogenic Degradation. <i>Microbiology Monographs</i> , <b>2018</b> , 153-192	0.8	3
254	Hydrogen or formate: Alternative key players in methanogenic degradation. <i>Environmental Microbiology Reports</i> , <b>2017</b> , 9, 189-202	3.7	39
253	Glycerol and mixture of carbon sources conversion to hydrogen by <i>Clostridium beijerinckii</i> DSM791 and effects of various heavy metals on hydrogenase activity. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 7875-7882	6.7	26
252	High-quality-draft genome sequence of the fermenting bacterium type strain GluBS11 (DSM 29698). <i>Standards in Genomic Sciences</i> , <b>2017</b> , 12, 24		4
251	Enzymes involved in the anaerobic degradation of ortho-phthalate by the nitrate-reducing bacterium <i>Azoarcus</i> sp. strain PA01. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 3175-88	5.2	34
250	Methane release from sediment seeps to the atmosphere is counteracted by highly active Methylococcaceae in the water column of deep oligotrophic Lake Constance. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92,	4.3	10
249	Anaerobic Microbial Degradation of Hydrocarbons: From Enzymatic Reactions to the Environment. <i>Journal of Molecular Microbiology and Biotechnology</i> , <b>2016</b> , 26, 5-28	0.9	165

248	Activation of Acetone and Other Simple Ketones in Anaerobic Bacteria. <i>Journal of Molecular Microbiology and Biotechnology</i> , <b>2016</b> , 26, 152-64	0.9	13
247	Biogas process parameters--energetics and kinetics of secondary fermentations in methanogenic biomass degradation. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 1019-26	5.7	20
246	Notes on the use of Greek word roots in genus and species names of prokaryotes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2016</b> , 66, 2129-2140	2.2	8
245	Methylosoma <b>2016</b> , 1-4		2
244	Cloning, functional expression and characterization of a bifunctional 3-hydroxybutanal dehydrogenase /reductase involved in acetone metabolism by <i>Desulfococcus biacutus</i> . <i>BMC Microbiology</i> , <b>2016</b> , 16, 280	4.5	7
243	Methyloglobulus <b>2016</b> , 1-4		1
242	Genomics of a phototrophic nitrite oxidizer: insights into the evolution of photosynthesis and nitrification. <i>ISME Journal</i> , <b>2016</b> , 10, 2669-2678	11.9	24
241	<i>Bacillus stamsii</i> sp. nov., a facultatively anaerobic sugar degrader that is numerically dominant in freshwater lake sediment. <i>Systematic and Applied Microbiology</i> , <b>2015</b> , 38, 379-89	4.2	11
240	Identification of the Gene Cluster for the Anaerobic Degradation of 3,5-Dihydroxybenzoate (Resorcyate) in <i>Thauera aromatica</i> Strain AR-1. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 7201-14	4.8	15
239	Draft genome of <i>Elstera litoralis</i> , a freshwater epilithic biofilm associated bacterium from littoral zone of Lake Constance. <i>Marine Genomics</i> , <b>2015</b> , 24 Pt 3, 223-4	1.9	2
238	<i>Desulfoprimum benzoelyticum</i> gen. nov., sp. nov., a Gram-stain-negative, benzoate-degrading, sulfate-reducing bacterium isolated from a wastewater treatment plant. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2015</b> , 65, 77-84	2.2	21
237	Syntrophus <b>2015</b> , 1-5		1
236	Syntrophobotulus <b>2015</b> , 1-4		1
235	Pelospora <b>2015</b> , 1-4		
234	Ilyobacter <b>2015</b> , 1-4		
233	Anaerovorax <b>2015</b> , 1-3		1
232	Malonomonas <b>2015</b> , 1-2		
231	Pelobacter <b>2015</b> , 1-6		

230 Propionigenium **2015**, 1-3

229 Draft genome sequence of a nitrate-reducing, o-phthalate degrading bacterium, *Azoarcus* sp. strain PA01(T). *Standards in Genomic Sciences*, **2015**, 10, 90 17

228 Life under extreme energy limitation: a synthesis of laboratory- and field-based investigations. *FEMS Microbiology Reviews*, **2015**, 39, 688-728 15.1 190

227 *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 2.2 12

226 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 2.2 53

225 Thiamine pyrophosphate stimulates acetone activation by *Desulfococcus biacutus* as monitored by a fluorogenic ATP analogue. *ACS Chemical Biology*, **2014**, 9, 1263-6 4.9 14

224 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 4.5 14

223 Degradation of acetaldehyde and its precursors by *Pelobacter carbinolicus* and *P. acetylenicus*. *PLoS ONE*, **2014**, 9, e115902 3.7 20

222 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, 18273-8<sup>11.5</sup> 154

221 The Family Syntrophomonadaceae **2014**, 371-379 2

220 Life based on phosphite: a genome-guided analysis of *Desulfotignum phosphitoxidans*. *BMC Genomics*, **2013**, 14, 753 4.5 26

219 Syntrophism Among Prokaryotes **2013**, 471-493 75

218 Carbonylation as a key reaction in anaerobic acetone activation by *Desulfococcus biacutus*. *Applied and Environmental Microbiology*, **2013**, 79, 6228-35 4.8 13

217 A proteomic view at the biochemistry of syntrophic butyrate oxidation in *Syntrophomonas wolfei*. *PLoS ONE*, **2013**, 8, e56905 3.7 59

216 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<sup>2.2</sup> 2

215 Different strategies in anaerobic biodegradation of aromatic compounds: nitrate reducers versus strict anaerobes. *Environmental Microbiology Reports*, **2012**, 4, 469-78 3.7 43

214 Genome-guided analysis of physiological and morphological traits of the fermentative acetate oxidizer *Thermacetogenium phaeum*. *BMC Genomics*, **2012**, 13, 723 4.5 44

213 *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 2.2 16

212	The bacterial microbiota in the ceca of Capercaillie ( <i>Tetrao urogallus</i> ) differs between wild and captive birds. <i>Systematic and Applied Microbiology</i> , <b>2011</b> , 34, 542-51	4.2	69
211	Exploring the active site of the tungsten, iron-sulfur enzyme acetylene hydratase. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 1229-36	3.5	40
210	Mass spectrometric protein identification from two-dimensional gel separation with stain-free detection and visualization using native fluorescence. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 301, 22-28	1.9	6
209	Nitrate-dependent degradation of acetone by Alicyclophilus and Paracoccus strains and comparison of acetone carboxylase enzymes. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 6821-5	4.8	23
208	Anaerobic oxidation of methane in sediments of Lake Constance, an oligotrophic freshwater lake. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 4429-36	4.8	162
207	Activity and diversity of methanotrophic bacteria at methane seeps in eastern Lake Constance sediments. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 2573-81	4.8	40
206	Uptake and release of phosphate by littoral sediment of a freshwater lake under the influence of light or mechanical perturbation. <i>Journal of Limnology</i> , <b>2010</b> , 69, 54	1.5	10
205	Identification and heterologous expression of genes involved in anaerobic dissimilatory phosphite oxidation by <i>Desulfotignum phosphitoxidans</i> . <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 5237-44	3.5	19
204	Syntrophy in Methanogenic Degradation. <i>Microbiology Monographs</i> , <b>2010</b> , 143-173	0.8	16
203	Syntrophic butyrate and propionate oxidation processes: from genomes to reaction mechanisms. <i>Environmental Microbiology Reports</i> , <b>2010</b> , 2, 489-99	3.7	183
202	Anaerobic phototrophic nitrite oxidation by <i>Thiocapsa</i> sp. strain KS1 and <i>Rhodospseudomonas</i> sp. strain LQ17. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 2428-2437	2.9	31
201	Involvement of NADH:acceptor oxidoreductase and butyryl coenzyme A dehydrogenase in reversed electron transport during syntrophic butyrate oxidation by <i>Syntrophomonas wolfei</i> . <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 6167-77	3.5	34
200	Syntrophic degradation of cadaverine by a defined methanogenic coculture. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 4821-8	4.8	11
199	"Unknown genome" proteomics: a new NADP-dependent epimerase/dehydratase revealed by N-terminal sequencing, inverted PCR, and high resolution mass spectrometry. <i>Molecular and Cellular Proteomics</i> , <b>2009</b> , 8, 122-31	7.6	5
198	An alternative to the glyoxylate shunt. <i>Molecular Microbiology</i> , <b>2009</b> , 73, 975-7	4.1	4
197	Ecophysiology and the energetic benefit of mixotrophic Fe(II) oxidation by various strains of nitrate-reducing bacteria. <i>FEMS Microbiology Ecology</i> , <b>2009</b> , 70, 335-43	4.3	119
196	Anaerobic degradation of naphthalene and 2-methylnaphthalene by strains of marine sulfate-reducing bacteria. <i>Environmental Microbiology</i> , <b>2009</b> , 11, 209-19	5.2	147
195	Dominant sugar utilizers in sediment of Lake Constance depend on syntrophic cooperation with methanogenic partner organisms. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 1501-11	5.2	35

194	Bacteria associated with benthic diatoms from Lake Constance: phylogeny and influences on diatom growth and secretion of extracellular polymeric substances. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 7740-9	4.8	107
193	Principles of Anaerobic Degradation of Organic Compounds <b>2008</b> , 169-192		4
192	Physiology, ecology, phylogeny, and genomics of microorganisms capable of syntrophic metabolism. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1125, 58-72	6.5	265
191	Nitrite, an electron donor for anoxygenic photosynthesis. <i>Science</i> , <b>2007</b> , 316, 1870	33.3	69
190	Comparison of aerobic methanotrophic communities in littoral and profundal sediments of Lake Constance by a molecular approach. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 4389-94	4.8	39
189	Heterologous expression and identification of the genes involved in anaerobic degradation of 1,3-dihydroxybenzene (resorcinol) in <i>Azoarcus anaerobius</i> . <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 3824-33	3.5	18
188	<i>Methylosoma difficile</i> gen. nov., sp. nov., a novel methanotroph enriched by gradient cultivation from littoral sediment of Lake Constance. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 1073-1080	2.2	71
187	Growth yields in bacterial denitrification and nitrate ammonification. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 1420-4	4.8	191
186	Structure of the non-redox-active tungsten/[4Fe:4S] enzyme acetylene hydratase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 3073-7	11.5	115
185	Cell aggregation of <i>Pseudomonas aeruginosa</i> strain PAO1 as an energy-dependent stress response during growth with sodium dodecyl sulfate. <i>Archives of Microbiology</i> , <b>2006</b> , 185, 417-27	3	56
184	A modified diffusion-based methane sensor and its application in freshwater sediment. <i>Limnology and Oceanography: Methods</i> , <b>2006</b> , 4, 275-283	2.6	4
183	Syntrophic associations in methanogenic degradation. <i>Progress in Molecular and Subcellular Biology</i> , <b>2006</b> , 41, 1-19	3	33
182	Syntrophism among Prokaryotes <b>2006</b> , 309-335		119
181	Mechanism of anaerobic degradation of triethanolamine by a homoacetogenic bacterium. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 349, 480-4	3.4	10
180	Enzyme activities in and energetics of acetate metabolism by the mesophilic syntrophically acetate-oxidizing anaerobe <i>Clostridium ultunense</i> . <i>FEMS Microbiology Letters</i> , <b>2006</b> , 154, 331-336	2.9	11
179	The gut microflora of <i>Reticulitermes flavipes</i> , its relation to oxygen, and evidence for oxygen-dependent acetogenesis by the most abundant <i>Enterococcus</i> sp.. <i>FEMS Microbiology Ecology</i> , <b>2006</b> , 24, 137-149	4.3	85
178	Cultivation of methanotrophic bacteria in opposing gradients of methane and oxygen. <i>FEMS Microbiology Ecology</i> , <b>2006</b> , 56, 331-44	4.3	52
177	The Genus <i>Pelobacter</i> <b>2006</b> , 5-11		12

176	The Genus <i>Propionigenium</i> <b>2006</b> , 955-959		5
175	Enrichment and isolation of ferric-iron- and humic-acid-reducing bacteria. <i>Methods in Enzymology</i> , <b>2005</b> , 397, 58-77	1.7	38
174	Principles of Anaerobic Degradation of Organic Compounds <b>2005</b> , 229-257		1
173	Dynamics of Redox Changes of Iron Caused by Light/Dark Variations in Littoral Sediment of a Freshwater Lake. <i>Biogeochemistry</i> , <b>2005</b> , 74, 323-339	3.8	26
172	Redox Changes of Iron Caused by Erosion, Resuspension and Sedimentation in Littoral Sediment of a Freshwater Lake. <i>Biogeochemistry</i> , <b>2005</b> , 74, 341-356	3.8	19
171	Crystallization and preliminary X-ray analysis of the tungsten-dependent acetylene hydratase from <i>Pelobacter acetylenicus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2005</b> , 61, 299-301		12
170	Novel bacterial molybdenum and tungsten enzymes: three-dimensional structure, spectroscopy, and reaction mechanism. <i>Biological Chemistry</i> , <b>2005</b> , 386, 999-1006	4.5	35
169	Operation of the CO dehydrogenase/acetyl coenzyme A pathway in both acetate oxidation and acetate formation by the syntrophically acetate-oxidizing bacterium <i>Thermacetogenium phaeum</i> . <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 3471-6	3.5	88
168	pmoA-based analysis of methanotrophs in a littoral lake sediment reveals a diverse and stable community in a dynamic environment. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 3138-42	4.8	75
167	Ferrihydrite-dependent growth of <i>Sulfurospirillum deleyianum</i> through electron transfer via sulfur cycling. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 5744-9	4.8	95
166	Stable isotope fractionation caused by glycol radical enzymes during bacterial degradation of aromatic compounds. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 2935-40	4.8	59
165	Crystal structure of pyrogallol-phloroglucinol transhydroxylase, an Mo enzyme capable of intermolecular hydroxyl transfer between phenols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 11571-6	11.5	45
164	Degradation of o-xylene and m-xylene by a novel sulfate-reducer belonging to the genus <i>Desulfotomaculum</i> . <i>Archives of Microbiology</i> , <b>2004</b> , 181, 407-17	3	115
163	Ferrihydrite reduction by <i>Geobacter</i> species is stimulated by secondary bacteria. <i>Archives of Microbiology</i> , <b>2004</b> , 182, 175-81	3	23
162	Electron shuttling via humic acids in microbial iron(III) reduction in a freshwater sediment. <i>FEMS Microbiology Ecology</i> , <b>2004</b> , 47, 85-92	4.3	242
161	Preferential cultivation of type II methanotrophic bacteria from littoral sediments (Lake Constance). <i>FEMS Microbiology Ecology</i> , <b>2004</b> , 47, 179-89	4.3	50
160	Diversity of Ferrous Iron-Oxidizing, Nitrate-Reducing Bacteria and their Involvement in Oxygen-Independent Iron Cycling. <i>Geomicrobiology Journal</i> , <b>2004</b> , 21, 371-378	2.5	191
159	Stereochemistry of the Conversion of 2-Phenoxyethanol into Phenol and Acetaldehyde by <i>Acetobacterium</i> sp.. <i>Helvetica Chimica Acta</i> , <b>2003</b> , 86, 2629-2636	2	7



158	Evaluation of electron-shuttling compounds in microbial ferric iron reduction. <i>FEMS Microbiology Letters</i> , <b>2003</b> , 220, 229-33	2.9	46
157	Cysteine-mediated electron transfer in syntrophic acetate oxidation by cocultures of <i>Geobacter sulfurreducens</i> and <i>Wolinella succinogenes</i> . <i>Archives of Microbiology</i> , <b>2002</b> , 178, 53-8	3	78
156	<i>Desulfotignum phosphitoxidans</i> sp. nov., a new marine sulfate reducer that oxidizes phosphite to phosphate. <i>Archives of Microbiology</i> , <b>2002</b> , 177, 381-91	3	77
155	Crystallization and preliminary X-ray analysis of the molybdenum-dependent pyrogallol-phloroglucinol transhydroxylase of <i>Pelobacter acidigallici</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2002</b> , 58, 343-5		2
154	Energetics and kinetics of lactate fermentation to acetate and propionate via methylmalonyl-CoA or acrylyl-CoA. <i>FEMS Microbiology Letters</i> , <b>2002</b> , 211, 65-70	2.9	135
153	Anaerobic degradation of protocatechuate (3,4-dihydroxybenzoate) by <i>Thauera aromatica</i> strain AR-1. <i>FEMS Microbiology Letters</i> , <b>2002</b> , 212, 139-43	2.9	22
152	Synergistic interactions in the microbial world. <i>Antonie Van Leeuwenhoek</i> , <b>2002</b> , 81, 257-61	2.1	204
151	Mechanism of anaerobic ether cleavage: conversion of 2-phenoxyethanol to phenol and acetaldehyde by <i>Acetobacterium</i> sp. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 11684-90	5.4	12
150	Carbon and hydrogen stable isotope fractionation during aerobic bacterial degradation of aromatic hydrocarbons. <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 5191-4	4.8	109
149	Cysteine-mediated reductive dissolution of poorly crystalline iron(III) oxides by <i>Geobacter sulfurreducens</i> . <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 2939-45	10.3	86
148	Synergistic interactions in the microbial world <b>2002</b> , 81, 257		1
147	Iron metabolism in anoxic environments at near neutral pH. <i>FEMS Microbiology Ecology</i> , <b>2001</b> , 34, 181-186	4.3	324
146	Ferrous iron oxidation by denitrifying bacteria in profundal sediments of a deep lake (Lake Constance). <i>FEMS Microbiology Ecology</i> , <b>2001</b> , 37, 127-134	4.3	76
145	Initiation of anaerobic degradation of p-cresol by formation of 4-hydroxybenzylsuccinate in <i>Desulfobacterium acetonicum</i> . <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 752-7	3.5	70
144	Stable hydrogen and carbon isotope fractionation during microbial toluene degradation: mechanistic and environmental aspects. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 4842-9	4.8	141
143	Dynamics in composition and size-class distribution of humic substances in profundal sediments of Lake Constance. <i>Organic Geochemistry</i> , <b>2001</b> , 32, 3-10	3.1	20
142	Factors influencing the cultivability of lake water bacteria. <i>Journal of Microbiological Methods</i> , <b>2001</b> , 47, 41-50	2.8	55
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138	Oxidation of acetate through reactions of the citric acid cycle by <i>Geobacter sulfurreducens</i> in pure culture and in syntrophic coculture. <i>Archives of Microbiology</i> , <b>2000</b> , 174, 314-21	3	99
137	Two distinct pathways for anaerobic degradation of aromatic compounds in the denitrifying bacterium <i>Thauera aromatica</i> strain AR-1. <i>Archives of Microbiology</i> , <b>2000</b> , 173, 91-6	3	26
136	Hydroxyhydroquinone reductase, the initial enzyme involved in the degradation of hydroxyhydroquinone (1,2,4-trihydroxybenzene) by <i>Desulfovibrio inopinatus</i> . <i>Archives of Microbiology</i> , <b>2000</b> , 173, 206-12	3	18
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134	Anaerobic naphthalene degradation by a sulfate-reducing enrichment culture. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 2743-7	4.8	194
133	<sup>13</sup> C/ <sup>12</sup> C isotope fractionation of aromatic hydrocarbons during microbial degradation. <i>Environmental Microbiology</i> , <b>1999</b> , 1, 409-14	5.2	127
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131	Net synthesis of acetate from CO <sub>2</sub> by <i>Eubacterium acidaminophilum</i> through the glycine reductase pathway. <i>FEMS Microbiology Letters</i> , <b>1999</b> , 177, 1-6	2.9	15
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129	Anaerobic degradation of m-cresol by <i>Desulfobacterium cetonicum</i> is initiated by formation of 3-hydroxybenzylsuccinate. <i>Archives of Microbiology</i> , <b>1999</b> , 172, 287-94	3	67
128	Towards the reaction mechanism of pyrogallol-phloroglucinol transhydroxylase of <i>Pelobacter acidigallici</i> . <i>BBA - Proteins and Proteomics</i> , <b>1999</b> , 1430, 245-53		16
127	<sup>13</sup> C/ <sup>12</sup> C Stable Isotope Fractionation of Toluene by Anaerobic Degradation <b>1999</b> , 219-226		3
126	Mechanistic aspects of molybdenum-containing enzymes. <i>FEMS Microbiology Reviews</i> , <b>1998</b> , 22, 489-501	15.1	60
125	Membrane-bound proton-translocating pyrophosphatase of <i>Syntrophus gentianae</i> , a syntrophically benzoate-degrading fermenting bacterium. <i>FEBS Journal</i> , <b>1998</b> , 256, 589-94		48
124	The fermenting bacterium <i>Malonomonas rubra</i> is phylogenetically related to sulfur-reducing bacteria and contains a c-type cytochrome similar to those of sulfur and sulfate reducers. <i>Systematic and Applied Microbiology</i> , <b>1998</b> , 21, 340-5	4.2	13
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122	Phototrophic oxidation of ferrous iron by a Rhodospirillum rubrum strain. <i>Microbiology (United Kingdom)</i> , <b>1998</b> , 144 ( Pt 8), 2263-2269	2.9	85
121	Growth of Geobacter sulfurreducens with acetate in syntrophic cooperation with hydrogen-oxidizing anaerobic partners. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 2232-6	4.8	166
120	Humic acid reduction by propionibacterium freudenreichii and other fermenting bacteria. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 4507-12	4.8	176
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113	Acetylene degradation by new isolates of aerobic bacteria and comparison of acetylene hydratase enzymes. <i>FEMS Microbiology Letters</i> , <b>1997</b> , 148, 175-80	2.9	23
112	One molecule of molybdopterin guanine dinucleotide is associated with each subunit of the heterodimeric Mo-Fe-S protein transhydroxylase of Pelobacter acidigallici as determined by SDS/PAGE and mass spectrometry. <i>FEBS Journal</i> , <b>1996</b> , 237, 406-13		19
111	Sodium-dependent succinate decarboxylation by a new anaerobic bacterium belonging to the genus Peptostreptococcus. <i>Antonie Van Leeuwenhoek</i> , <b>1996</b> , 70, 11-20	2.1	14
110	Electron transport phosphorylation driven by glyoxylate respiration with hydrogen as electron donor in membrane vesicles of a glyoxylate-fermenting bacterium. <i>Archives of Microbiology</i> , <b>1995</b> , 163, 268-75	3	19
109	Acetate oxidation through a modified citric acid cycle in Propionibacterium freudenreichii. <i>Archives of Microbiology</i> , <b>1995</b> , 163, 182-187	3	17
108	Metabolic pathways and energetics of the acetone-oxidizing, sulfate-reducing bacterium, Desulfobacterium cetonicum. <i>Archives of Microbiology</i> , <b>1995</b> , 163, 188-94	3	30
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105	Isolation and characterization of a desulforubidin-containing sulfate-reducing bacterium growing with glycolate. <i>Archives of Microbiology</i> , <b>1995</b> , 164, 271-279	3	21

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103	Isolation and characterization of a desulfurubidin-containing sulfate-reducing bacterium growing with glycolate <b>1995</b> , 164, 271		4
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95	Fermentation of phenoxyethanol to phenol and acetate by a homoacetogenic bacterium. <i>Archives of Microbiology</i> , <b>1994</b> , 162, 199-204	3	16
94	Fermentative degradation of triethanolamine by a homoacetogenic bacterium. <i>Archives of Microbiology</i> , <b>1994</b> , 162, 103-7	3	20
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92	Evidence of reversed electron transport in syntrophic butyrate or benzoate oxidation by <i>Syntrophomonas wolfei</i> and <i>Syntrophus buswellii</i> . <i>Archives of Microbiology</i> , <b>1994</b> , 162, 136-142	3	72
91	Hydroquinone degradation via reductive dehydroxylation of gentisyl-CoA by a strictly anaerobic fermenting bacterium. <i>Archives of Microbiology</i> , <b>1994</b> , 161, 25-32	3	36
90	Hydroquinone degradation via reductive dehydroxylation of gentisyl-CoA by a strictly anaerobic fermenting bacterium <b>1994</b> , 161, 25		3
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46	Sporomusa malonica sp. nov., a homoacetogenic bacterium growing by decarboxylation of malonate or succinate. <i>Archives of Microbiology</i> , <b>1989</b> , 151, 421-426	3	70
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43	Anaerobic oxidation of glycerol by Escherichia coli in an amperometric poised-potential culture system. <i>Applied Microbiology and Biotechnology</i> , <b>1989</b> , 32, 170-175	5.7	60
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39	Degradation of hydroquinone, gentisate, and benzoate by a fermenting bacterium in pure or defined mixed culture. <i>Archives of Microbiology</i> , <b>1989</b> , 151, 541-545	3	61
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33	Cultivation of syntrophic anaerobic bacteria in membrane-separated culture devices. <i>FEMS Microbiology Letters</i> , <b>1987</b> , 45, 71-76	2.9	8

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26	Fermentation of primary alcohols and diols and pure culture of syntrophically alcohol-oxidizing anaerobes. <i>Archives of Microbiology</i> , <b>1985</b> , 143, 60-66	3	57
25	Fermentation of acetylene by an obligate anaerobe, <i>Pelobacter acetylenicus</i> sp. nov.. <i>Archives of Microbiology</i> , <b>1985</b> , 142, 295-301	3	176
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10	Isolation of a hydrogenase-cytochrome b complex from cytoplasmic membranes of <i>Xanthobacter autotrophicus</i> GZ 29. <i>FEMS Microbiology Letters</i> , <b>1982</b> , 13, 289-293	2.9	19
9	Microbiology of wetwood: importance of pectin degradation and clostridium species in living trees. <i>Applied and Environmental Microbiology</i> , <b>1981</b> , 42, 526-32	4.8	62
8	Microbial methanol formation: A major end product of pectin metabolism. <i>Current Microbiology</i> , <b>1980</b> , 4, 387-389	2.4	116
7	Competitive inhibition of the membrane-bound hydrogenase of <i>Alcaligenes eutrophus</i> by molecular oxygen. <i>Biochemical and Biophysical Research Communications</i> , <b>1980</b> , 95, 1563-9	3.4	17
6	The membrane-bound hydrogenase of <i>Alcaligenes eutrophus</i> . I. Solubilization, purification, and biochemical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1979</b> , 567, 315-24	3.8	193
5	Mutants of <i>Alcaligenes eutrophus</i> defective in autotrophic metabolism. <i>Archives of Microbiology</i> , <b>1978</b> , 117, 123-9	3	35
4	Hydrogen metabolism in aerobic hydrogen-oxidizing bacteria. <i>Biochimie</i> , <b>1978</b> , 60, 297-305	4.6	44
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