

Bernhard Schink

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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	Ferrous iron oxidation by anoxygenic phototrophic bacteria. <i>Nature</i> , 1993 , 362, 834-836	50.4	559
282	Iron metabolism in anoxic environments at near neutral pH. <i>FEMS Microbiology Ecology</i> , 2001 , 34, 181-186	6.3	324
281	Physiology, ecology, phylogeny, and genomics of microorganisms capable of syntrophic metabolism. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1125, 58-72	6.5	265
280	Electron shuttling via humic acids in microbial iron(III) reduction in a freshwater sediment. <i>FEMS Microbiology Ecology</i> , 2004 , 47, 85-92	4.3	242
279	Anaerobic and aerobic oxidation of ferrous iron at neutral pH by chemoheterotrophic nitrate-reducing bacteria. <i>Archives of Microbiology</i> , 1998 , 169, 159-65	3	208
278	Fermentation of glycerol to 1,3-propanediol by Klebsiella and Citrobacter strains. <i>Applied Microbiology and Biotechnology</i> , 1990 , 33, 121	5.7	205
277	Synergistic interactions in the microbial world. <i>Antonie Van Leeuwenhoek</i> , 2002 , 81, 257-61	2.1	204
276	Anaerobic naphthalene degradation by a sulfate-reducing enrichment culture. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2743-7	4.8	194
275	The membrane-bound hydrogenase of <i>Alcaligenes eutrophus</i> . I. Solubilization, purification, and biochemical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1979 , 567, 315-24	3.8	193
274	Growth yields in bacterial denitrification and nitrate ammonification. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1420-4	4.8	191
273	Diversity of Ferrous Iron-Oxidizing, Nitrate-Reducing Bacteria and their Involvement in Oxygen-Independent Iron Cycling. <i>Geomicrobiology Journal</i> , 2004 , 21, 371-378	2.5	191
272	Life under extreme energy limitation: a synthesis of laboratory- and field-based investigations. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 688-728	15.1	190
271	Fermentation of trihydroxybenzenes by <i>Pelobacter acidigallici</i> gen. nov. sp. nov., a new strictly anaerobic, non-sporeforming bacterium. <i>Archives of Microbiology</i> , 1982 , 133, 195-201	3	190
270	Syntrophic butyrate and propionate oxidation processes: from genomes to reaction mechanisms. <i>Environmental Microbiology Reports</i> , 2010 , 2, 489-99	3.7	183
269	Fermentation of acetylene by an obligate anaerobe, <i>Pelobacter acetylenicus</i> sp. nov.. <i>Archives of Microbiology</i> , 1985 , 142, 295-301	3	176
268	Humic acid reduction by <i>propionibacterium freudenreichii</i> and other fermenting bacteria. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 4507-12	4.8	176
267	Growth of <i>geobacter sulfurreducens</i> with acetate in syntrophic cooperation with hydrogen-oxidizing anaerobic partners. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 2232-6	4.8	166

266	Anaerobic Microbial Degradation of Hydrocarbons: From Enzymatic Reactions to the Environment. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016 , 26, 5-28	0.9	165
265	Anaerobic oxidation of methane in sediments of Lake Constance, an oligotrophic freshwater lake. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 4429-36	4.8	162
264	Life by a new decarboxylation-dependent energy conservation mechanism with Na ⁺ as coupling ion. <i>EMBO Journal</i> , 1984 , 3, 1665-1670	13	161
263	Anaerobic methane oxidation coupled to denitrification is the dominant methane sink in a deep lake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18273-8 ^{11.5}	11.5	154
262	A periplasmic and extracellular c-type cytochrome of <i>Geobacter sulfurreducens</i> acts as a ferric iron reductase and as an electron carrier to other acceptors or to partner bacteria. <i>Journal of Bacteriology</i> , 1998 , 180, 3686-91	3.5	154
261	Anaerobic degradation of naphthalene and 2-methylnaphthalene by strains of marine sulfate-reducing bacteria. <i>Environmental Microbiology</i> , 2009 , 11, 209-19	5.2	147
260	Stable hydrogen and carbon isotope fractionation during microbial toluene degradation: mechanistic and environmental aspects. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 4842-9	4.8	141
259	Fermentation of 2,3-butanediol by <i>Pelobacter carbinolicus</i> sp. nov. and <i>Pelobacter propionicus</i> sp. nov., and evidence for propionate formation from C2 compounds. <i>Archives of Microbiology</i> , 1984 , 137, 33-41	3	139
258	Anaerobic oxidation of fatty acids by <i>Clostridium bryantii</i> sp. nov., a sporeforming, obligately syntrophic bacterium. <i>Archives of Microbiology</i> , 1985 , 140, 387-390	3	137
257	Energetics and kinetics of lactate fermentation to acetate and propionate via methylmalonyl-CoA or acrylyl-CoA. <i>FEMS Microbiology Letters</i> , 2002 , 211, 65-70	2.9	135
256	¹³ C/ ¹² C isotope fractionation of aromatic hydrocarbons during microbial degradation. <i>Environmental Microbiology</i> , 1999 , 1, 409-14	5.2	127
255	Anaerobic aniline degradation via reductive deamination of 4-aminobenzoyl-CoA in <i>Desulfobacterium anilini</i> . <i>Archives of Microbiology</i> , 1991 , 155, 183-190	3	127
254	Oxidation of primary aliphatic alcohols by <i>Acetobacterium carbinolicum</i> sp. nov., a homoacetogenic anaerobe. <i>Archives of Microbiology</i> , 1984 , 140, 147-152	3	123
253	<i>Syntrophobacter pfennigii</i> sp. nov., new syntrophically propionate-oxidizing anaerobe growing in pure culture with propionate and sulfate. <i>Archives of Microbiology</i> , 1995 , 164, 346-352	3	122
252	Ecophysiology and the energetic benefit of mixotrophic Fe(II) oxidation by various strains of nitrate-reducing bacteria. <i>FEMS Microbiology Ecology</i> , 2009 , 70, 335-43	4.3	119
251	Syntrophism among Prokaryotes 2006 , 309-335		119
250	Microbial methanol formation: A major end product of pectin metabolism. <i>Current Microbiology</i> , 1980 , 4, 387-389	2.4	116
249	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> , 2007 , 104, 3073-7	11.5	115

248	Degradation of o-xylene and m-xylene by a novel sulfate-reducer belonging to the genus <i>Desulfotomaculum</i> . <i>Archives of Microbiology</i> , 2004 , 181, 407-17	3	115
247	<i>Propionigenium modestum</i> gen. nov. sp. nov. a new strictly anaerobic, nonsporing bacterium growing on succinate. <i>Archives of Microbiology</i> , 1982 , 133, 209-216	3	111
246	Carbon and hydrogen stable isotope fractionation during aerobic bacterial degradation of aromatic hydrocarbons. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 5191-4	4.8	109
245	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> , 2008 , 74, 7740-9	4.8	107
244	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> , 2000 , 174, 314-21	3	99
243	Phosphite oxidation by sulphate reduction. <i>Nature</i> , 2000 , 406, 37	50.4	96
242	Ferrihydrite-dependent growth of <i>Sulfurospirillum deleyianum</i> through electron transfer via sulfur cycling. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 5744-9	4.8	95
241	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> , 2005 , 187, 3471-6	3.5	88
240	Cysteine-mediated reductive dissolution of poorly crystalline iron(III) oxides by <i>Geobacter sulfurreducens</i> . <i>Environmental Science & Technology</i> , 2002 , 36, 2939-45	10.3	86
239	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> , 2006 , 24, 137-149	4.3	85
238	Phototrophic oxidation of ferrous iron by a <i>Rhodomicrobium vannielii</i> strain. <i>Microbiology (United Kingdom)</i> , 1998 , 144 (Pt 8), 2263-2269	2.9	85
237	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> , 2002 , 178, 53-8	3	78
236	<i>Desulfotignum phosphitoxidans</i> sp. nov., a new marine sulfate reducer that oxidizes phosphite to phosphate. <i>Archives of Microbiology</i> , 2002 , 177, 381-91	3	77
235	Enhanced Propionate Formation by <i>Propionibacterium freudenreichii</i> subsp. <i>freudenreichii</i> in a Three-Electrode Amperometric Culture System. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 2771-6	4.8	77
234	Ferrous iron oxidation by denitrifying bacteria in profundal sediments of a deep lake (Lake Constance). <i>FEMS Microbiology Ecology</i> , 2001 , 37, 127-134	4.3	76
233	Syntrophism Among Prokaryotes 2013 , 471-493		75
232	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> , 2004 , 70, 3138-42	4.8	75
231	Phloroglucinol pathway in the strictly anaerobic <i>Pelobacter acidigallici</i> : fermentation of trihydroxybenzenes to acetate via triacetic acid. <i>Archives of Microbiology</i> , 1992 , 157, 417-424	3	75

230	Clostridium magnum sp. nov., a non-autotrophic homoacetogenic bacterium. <i>Archives of Microbiology</i> , 1984 , 137, 250-255	3	74
229	Evidence of reversed electron transport in syntrophic butyrate or benzoate oxidation by Syntrophomonas wolfei and Syntrophus buswellii. <i>Archives of Microbiology</i> , 1994 , 162, 136-142	3	72
228	Methylosoma difficile 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> , 2007 , 57, 1073-1080	2.2	71
227	Pure culture and cytological properties of Byntriphobacter wolini. <i>FEMS Microbiology Letters</i> , 1994 , 123, 249-254	2.9	71
226	Degradation of unsaturated hydrocarbons by methanogenic enrichment cultures. <i>FEMS Microbiology Letters</i> , 1985 , 31, 69-77	2.9	71
225	Initiation of anaerobic degradation of p-cresol by formation of 4-hydroxybenzylsuccinate in Desulfobacterium cetonicum. <i>Journal of Bacteriology</i> , 2001 , 183, 752-7	3.5	70
224	Sporomusa malonica sp. nov., a homoacetogenic bacterium growing by decarboxylation of malonate or succinate. <i>Archives of Microbiology</i> , 1989 , 151, 421-426	3	70
223	The bacterial microbiota in the ceca of Capercaillie (Tetrao urogallus) differs between wild and captive birds. <i>Systematic and Applied Microbiology</i> , 2011 , 34, 542-51	4.2	69
222	Nitrite, an electron donor for anoxygenic photosynthesis. <i>Science</i> , 2007 , 316, 1870	33.3	69
221	Anaerobic degradation of acetone by Desulfococcus biacutus spec. nov. <i>Archives of Microbiology</i> , 1990 , 154, 355-61	3	68
220	Anaerobic degradation of m-cresol by Desulfobacterium cetonicum is initiated by formation of 3-hydroxybenzylsuccinate. <i>Archives of Microbiology</i> , 1999 , 172, 287-94	3	67
219	Fermentative degradation of resorcinol and resorcylic acids. <i>Archives of Microbiology</i> , 1985 , 143, 52-59	3	67
218	Anaerobic degradation of nonionic and anionic surfactants in enrichment cultures and fixed-bed reactors. <i>Water Research</i> , 1987 , 21, 615-622	12.5	66
217	A new 3-hydroxybutyrate fermenting anaerobe, Ilyobacter polytropus, gen. nov. sp. nov., possessing various fermentation pathways. <i>Archives of Microbiology</i> , 1984 , 140, 139-146	3	65
216	Malonomonas rubra gen. nov. sp. nov., a microaerotolerant anaerobic bacterium growing by decarboxylation of malonate. <i>Archives of Microbiology</i> , 1989 , 151, 427-433	3	64
215	Respiration of 2,4,6-trinitrotoluene by Pseudomonas sp. strain JLR11. <i>Journal of Bacteriology</i> , 2000 , 182, 1352-5	3.5	62
214	Microbiology of wetwood: importance of pectin degradation and clostridium species in living trees. <i>Applied and Environmental Microbiology</i> , 1981 , 42, 526-32	4.8	62
213	Degradation of hydroquinone, gentisate, and benzoate by a fermenting bacterium in pure or defined mixed culture. <i>Archives of Microbiology</i> , 1989 , 151, 541-545	3	61

212	Fermentative degradation of monohydroxybenzoates by defined syntrophic cocultures. <i>Archives of Microbiology</i> , 1986 , 145, 396-402	3	61
211	Mechanistic aspects of molybdenum-containing enzymes. <i>FEMS Microbiology Reviews</i> , 1998 , 22, 489-501	15.1	60
210	Demethylation and degradation of phenylmethylethers by the sulfide-methylating homoacetogenic bacterium strain TMBS 4. <i>Archives of Microbiology</i> , 1993 , 159, 308-315	3	60
209	Anaerobic oxidation of glycerol by <i>Escherichia coli</i> in an amperometric poised-potential culture system. <i>Applied Microbiology and Biotechnology</i> , 1989 , 32, 170-175	5.7	60
208	A proteomic view at the biochemistry of syntrophic butyrate oxidation in <i>Syntrophomonas wolfei</i> . <i>PLoS ONE</i> , 2013 , 8, e56905	3.7	59
207	Stable isotope fractionation caused by glycol radical enzymes during bacterial degradation of aromatic compounds. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 2935-40	4.8	59
206	Fermentation of primary alcohols and diols and pure culture of syntrophically alcohol-oxidizing anaerobes. <i>Archives of Microbiology</i> , 1985 , 143, 60-66	3	57
205	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> , 2006 , 185, 417-27	3	56
204	Serious mismatches continue between science and policy in forest bioenergy. <i>GCB Bioenergy</i> , 2019 , 11, 1256-1263	5.6	55
203	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> , 2019 , 116, 6897-6902	11.5	55
202	Factors influencing the cultivability of lake water bacteria. <i>Journal of Microbiological Methods</i> , 2001 , 47, 41-50	2.8	55
201	Acetylene hydratase of <i>Pelobacter acetylenicus</i> . Molecular and spectroscopic properties of the tungsten iron-sulfur enzyme. <i>FEBS Journal</i> , 1999 , 264, 176-82		54
200	Energetics of syntrophic fatty acid oxidation. <i>FEMS Microbiology Reviews</i> , 1994 , 15, 85-94	15.1	54
199	Reciprocal isomerization of butyrate and isobutyrate by the strictly anaerobic bacterium strain WoG13 and methanogenic isobutyrate degradation by a defined triculture. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 1435-9	4.8	54
198	Proposal to include the rank of phylum in the International Code of Nomenclature of Prokaryotes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015 , 65, 4284-4287	2.2	53
197	Cultivation of methanotrophic bacteria in opposing gradients of methane and oxygen. <i>FEMS Microbiology Ecology</i> , 2006 , 56, 331-44	4.3	52
196	Preferential cultivation of type II methanotrophic bacteria from littoral sediments (Lake Constance). <i>FEMS Microbiology Ecology</i> , 2004 , 47, 179-89	4.3	50
195	Anaerobic degradation of isovalerate by a defined methanogenic coculture. <i>Archives of Microbiology</i> , 1986 , 144, 291-295	3	50

194	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> , 2018 , 68, 967-969	2.2	50
193	Membrane-bound proton-translocating pyrophosphatase of <i>Syntrophus gentianae</i> , a syntrophically benzoate-degrading fermenting bacterium. <i>FEBS Journal</i> , 1998 , 256, 589-94		48
192	Evaluation of electron-shuttling compounds in microbial ferric iron reduction. <i>FEMS Microbiology Letters</i> , 2003 , 220, 229-33	2.9	46
191	Oxidation of glycerol, lactate, and propionate by <i>Propionibacterium freudenreichii</i> in a poised-potential amperometric culture system. <i>Archives of Microbiology</i> , 1990 , 153, 506-512	3	46
190	Enzymes Involved in Anaerobic Polyethylene Glycol Degradation by <i>Pelobacter venetianus</i> and <i>Bacteroides</i> Strain PG1. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 2164-7	4.8	46
189	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> , 2004 , 101, 11571-6	11.5	45
188	Anaerobic degradation of isobutyrate by methanogenic enrichment cultures and by a <i>Desulfococcus multivorans</i> strain. <i>Archives of Microbiology</i> , 1989 , 151, 126-132	3	45
187	Genome-guided analysis of physiological and morphological traits of the fermentative acetate oxidizer <i>Thermacetogenium phaeum</i> . <i>BMC Genomics</i> , 2012 , 13, 723	4.5	44
186	Energetics and biochemistry of fermentative benzoate degradation by <i>Syntrophus gentianae</i> . <i>Archives of Microbiology</i> , 1999 , 171, 331-337	3	44
185	Methanogenic degradation of hydroquinone and catechol via reductive dehydroxylation to phenol. <i>FEMS Microbiology Letters</i> , 1985 , 31, 79-87	2.9	44
184	Hydrogen metabolism in aerobic hydrogen-oxidizing bacteria. <i>Biochimie</i> , 1978 , 60, 297-305	4.6	44
183	Different strategies in anaerobic biodegradation of aromatic compounds: nitrate reducers versus strict anaerobes. <i>Environmental Microbiology Reports</i> , 2012 , 4, 469-78	3.7	43
182	Evidence of two oxidative reaction steps initiating anaerobic degradation of resorcinol (1,3-dihydroxybenzene) by the denitrifying bacterium <i>Azoarcus anaerobius</i> . <i>Journal of Bacteriology</i> , 1998 , 180, 3644-9	3.5	42
181	Exploring the active site of the tungsten, iron-sulfur enzyme acetylene hydratase. <i>Journal of Bacteriology</i> , 2011 , 193, 1229-36	3.5	40
180	Activity and diversity of methanotrophic bacteria at methane seeps in eastern Lake Constance sediments. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 2573-81	4.8	40
179	Pure Culture of <i>Syntrophus buswellii</i> , Definition of its Phylogenetic Status, and Description of <i>Syntrophus gentianae</i> sp. nov.. <i>Systematic and Applied Microbiology</i> , 1995 , 18, 62-66	4.2	40
178	Hydrogen or formate: Alternative key players in methanogenic degradation. <i>Environmental Microbiology Reports</i> , 2017 , 9, 189-202	3.7	39
177	Energetics of methanogenic benzoate degradation by in syntrophic coculture. <i>Microbiology (United Kingdom)</i> , 1997 , 143, 2345-2351	2.9	39

176	Comparison of aerobic methanotrophic communities in littoral and profundal sediments of Lake Constance by a molecular approach. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 4389-94	4.8	39
175	Fermentation of tartrate enantiomers by anaerobic bacteria, and description of two new species of strict anaerobes, <i>Ruminococcus pasteurii</i> and <i>Ilyobacter tartaricus</i> . <i>Archives of Microbiology</i> , 1984 , 139, 409-414	3	39
174	Enrichment and isolation of ferric-iron- and humic-acid-reducing bacteria. <i>Methods in Enzymology</i> , 2005 , 397, 58-77	1.7	38
173	Diversity, Ecology, and Isolation of Acetogenic Bacteria 1994 , 197-235		38
172	A strictly anaerobic nitrate-reducing bacterium growing with resorcinol and other aromatic compounds. <i>Archives of Microbiology</i> , 1992 , 158, 48-53	3	38
171	Fermentation of polyethylene glycol via acetaldehyde in <i>Pelobacter venetianus</i> . <i>Applied Microbiology and Biotechnology</i> , 1986 , 25, 37-42	5.7	38
170	Microbial degradation of phthalates: biochemistry and environmental implications. <i>Environmental Microbiology Reports</i> , 2020 , 12, 3-15	3.7	38
169	Hydroquinone degradation via reductive dehydroxylation of gentisyl-CoA by a strictly anaerobic fermenting bacterium. <i>Archives of Microbiology</i> , 1994 , 161, 25-32	3	36
168	Ether-cleaving enzyme and diol dehydratase involved in anaerobic polyethylene glycol degradation by a new <i>Acetobacterium</i> sp. <i>Biodegradation</i> , 1991 , 2, 71-9	4.1	36
167	Pathway of anaerobic poly- γ -hydroxybutyrate degradation by <i>Ilyobacter delafieldii</i> . <i>Biodegradation</i> , 1993 , 4, 179-185	4.1	36
166	Characterization of pectinolytic enzymes of <i>Clostridium thermosulfurogenes</i> . <i>FEMS Microbiology Letters</i> , 1983 , 17, 295-298	2.9	36
165	Dominant sugar utilizers in sediment of Lake Constance depend on syntrophic cooperation with methanogenic partner organisms. <i>Environmental Microbiology</i> , 2008 , 10, 1501-11	5.2	35
164	Novel bacterial molybdenum and tungsten enzymes: three-dimensional structure, spectroscopy, and reaction mechanism. <i>Biological Chemistry</i> , 2005 , 386, 999-1006	4.5	35
163	Mutants of <i>Alcaligenes eutrophus</i> defective in autotrophic metabolism. <i>Archives of Microbiology</i> , 1978 , 117, 123-9	3	35
162	Enzymes involved in the anaerobic degradation of ortho-phthalate by the nitrate-reducing bacterium <i>Azoarcus</i> sp. strain PA01. <i>Environmental Microbiology</i> , 2016 , 18, 3175-88	5.2	34
161	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> , 2009 , 191, 6167-77	3.5	34
160	Degradation of hydroxyhydroquinone by the strictly anaerobic fermenting bacterium <i>Pelobacter massiliensis</i> sp. nov.. <i>Archives of Microbiology</i> , 1991 , 155, 511-516	3	34
159	Malonate decarboxylase of <i>Malonomonas rubra</i> , a novel type of biotin-containing acetyl enzyme. <i>FEBS Journal</i> , 1992 , 207, 117-23		34

158	Hydrogen formation from glycolate driven by reversed electron transport in membrane vesicles of a syntrophic glycolate-oxidizing bacterium. <i>FEBS Journal</i> , 1993 , 217, 233-40		34
157	Anaerovibrio glycerini sp. nov., an anaerobic bacterium fermenting glycerol to propionate, cell matter, and hydrogen. <i>Archives of Microbiology</i> , 1989 , 152, 473-478	3	34
156	Inhibition of methanogenesis by ethylene and other unsaturated hydrocarbons. <i>FEMS Microbiology Letters</i> , 1985 , 31, 63-68	2.9	34
155	Radioassay for hydrogenase activity in viable cells and documentation of aerobic hydrogen-consuming bacteria living in extreme environments. <i>Applied and Environmental Microbiology</i> , 1983 , 45, 1491-500	4.8	34
154	Syntrophic associations in methanogenic degradation. <i>Progress in Molecular and Subcellular Biology</i> , 2006 , 41, 1-19	3	33
153	Lithotrophic growth and hydrogen metabolism by Clostridium magnum. <i>FEMS Microbiology Letters</i> , 1991 , 83, 347-350	2.9	33
152	O-demethylation by the homoacetogenic anaerobe Holophaga foetida studied by a new photometric methylation assay using electrochemically produced cob(I)alamin. <i>FEBS Journal</i> , 1994 , 226, 945-51		31
151	Two new species of anaerobic oxalate-fermenting bacteria, Oxalobacter vibrioformis sp. nov. and Clostridium oxalicum sp. nov., from sediment samples. <i>Archives of Microbiology</i> , 1989 , 153, 79-84	3	31
150	Anaerobic phototrophic nitrite oxidation by Thiocapsa sp. strain KS1 and Rhodopseudomonas sp. strain LQ17. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 2428-2437	2.9	31
149	Metabolic pathways and energetics of the acetone-oxidizing, sulfate-reducing bacterium, Desulfobacterium ceticum. <i>Archives of Microbiology</i> , 1995 , 163, 188-94	3	30
148	Anaerobic degradation of xenobiotic isophthalate by the fermenting bacterium Syntrophorhabdus aromaticivorans. <i>ISME Journal</i> , 2019 , 13, 1252-1268	11.9	30
147	The Phylogenetic Status of Pelobacter acidigallici, Pelobacter venetianus, and Pelobacter carbinolicus. <i>Systematic and Applied Microbiology</i> , 1989 , 11, 257-260	4.2	29
146	Fermentative degradation of glycolic acid by defined syntrophic cocultures. <i>Archives of Microbiology</i> , 1991 , 156, 398-404	3	28
145	Clostridium homopropionicum sp. nov., a new strict anaerobe growing with 2-, 3-, or 4-hydroxybutyrate. <i>Archives of Microbiology</i> , 1990 , 154, 342-8	3	28
144	Complete anaerobic oxidation of hydroquinone by Desulfococcus sp. strain Hy5: indications of hydroquinone carboxylation to gentisate. <i>Archives of Microbiology</i> , 1994 , 162, 131-135	3	27
143	Glycerol and mixture of carbon sources conversion to hydrogen by Clostridium beijerinckii DSM791 and effects of various heavy metals on hydrogenase activity. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7875-7882	6.7	26
142	Life based on phosphite: a genome-guided analysis of Desulfotignum phosphitoxidans. <i>BMC Genomics</i> , 2013 , 14, 753	4.5	26
141	Dynamics of Redox Changes of Iron Caused by Light/Dark Variations in Littoral Sediment of a Freshwater Lake. <i>Biogeochemistry</i> , 2005 , 74, 323-339	3.8	26

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139	Microbial degradation of natural and of new synthetic polymers. <i>FEMS Microbiology Letters</i> , 1992 , 9, 311-6	2.9	26
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