Derek R Lovley

List of Publications by Year
in descending order

418 papers	81,745 citations	219 146 h-index	483 270 g-index
439 all docs	439 docs citations	439 times ranked	26186 citing authors

#	Article	IF	Citations
1	Extracellular electron transfer via microbial nanowires. Nature, 2005, 435, 1098-1101.	27.8	2,189
2	Novel Mode of Microbial Energy Metabolism: Organic Carbon Oxidation Coupled to Dissimilatory Reduction of Iron or Manganese. Applied and Environmental Microbiology, 1988, 54, 1472-1480.	3.1	2,105
3	Electricity Production by<i>Geobacter sulfurreducens</i>Attached to Electrodes. Applied and Environmental Microbiology, 2003, 69, 1548-1555.	3.1	1,966
4	Humic substances as electron acceptors for microbial respiration. Nature, 1996, 382, 445-448.	27.8	1,572
5	Electricity generation by direct oxidation of glucose in mediatorless microbial fuel cells. Nature Biotechnology, 2003, 21, 1229-1232.	17.5	1,326
6	Organic Matter Mineralization with Reduction of Ferric Iron in Anaerobic Sediments. Applied and Environmental Microbiology, 1986, 51, 683-689.	3.1	1,270
7	Microbial reduction of uranium. Nature, 1991, 350, 413-416.	27.8	1,262
8	Electrode-Reducing Microorganisms That Harvest Energy from Marine Sediments. Science, 2002, 295, 483-485.	12.6	1,234
9	Dissimilatory Fe(III) and Mn(IV) Reduction. Advances in Microbial Physiology, 2004, 49, 219-286.	2.4	1,228
10	Bug juice: harvesting electricity with microorganisms. Nature Reviews Microbiology, 2006, 4, 497-508.	28.6	1,192
11	A new model for electron flow during anaerobic digestion: direct interspecies electron transfer to Methanosaeta for the reduction of carbon dioxide to methane. Energy and Environmental Science, 2014, 7, 408-415.	30.8	1,074
12	Anaerobic production of magnetite by a dissimilatory iron-reducing microorganism. Nature, 1987, 330, 252-254.	27.8	900
13	Dissimilatory Metal Reduction. Annual Review of Microbiology, 1993, 47, 263-290.	7.3	885
14	Stimulating the In Situ Activity of <i>Geobacter</i> Species To Remove Uranium from the Groundwater of a Uranium-Contaminated Aquifer. Applied and Environmental Microbiology, 2003, 69, 5884-5891.	3.1	828
15	Rapid Assay for Microbially Reducible Ferric Iron in Aquatic Sediments. Applied and Environmental Microbiology, 1987, 53, 1536-1540.	3.1	823
16	Microbial Electrosynthesis: Feeding Microbes Electricity To Convert Carbon Dioxide and Water to Multicarbon Extracellular Organic Compounds. MBio, 2010, 1, .	4.1	815
17	Direct Exchange of Electrons Within Aggregates of an Evolved Syntrophic Coculture of Anaerobic Bacteria. Science, 2010, 330, 1413-1415.	12.6	791
18	Tunable metallic-like conductivity in microbial nanowire networks. Nature Nanotechnology, 2011, 6, 573-579.	31.5	762

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19	The microbe electric: conversion of organic matter to electricity. Current Opinion in Biotechnology, 2008, 19, 564-571.	6.6	753
20	Biofilm and Nanowire Production Leads to Increased Current in Geobacter sulfurreducens Fuel Cells. Applied and Environmental Microbiology, 2006, 72, 7345-7348.	3.1	752
21	Promoting direct interspecies electron transfer with activated carbon. Energy and Environmental Science, 2012, 5, 8982.	30.8	718
22	Direct Interspecies Electron Transfer between Geobacter metallireducens and Methanosarcina barkeri. Applied and Environmental Microbiology, 2014, 80, 4599-4605.	3.1	714
23	Quinone Moieties Act as Electron Acceptors in the Reduction of Humic Substances by Humics-Reducing Microorganisms. Environmental Science & Technology, 1998, 32, 2984-2989.	10.0	703
24	Graphite electrodes as electron donors for anaerobic respiration. Environmental Microbiology, 2004, 6, 596-604.	3.8	659
25	Harnessing microbially generated power on the seafloor. Nature Biotechnology, 2002, 20, 821-825.	17.5	640
26	Availability of Ferric Iron for Microbial Reduction in Bottom Sediments of the Freshwater Tidal Potomac River. Applied and Environmental Microbiology, 1986, 52, 751-757.	3.1	630
27	Electrosynthesis of Organic Compounds from Carbon Dioxide Is Catalyzed by a Diversity of Acetogenic Microorganisms. Applied and Environmental Microbiology, 2011, 77, 2882-2886.	3.1	625
28	Extending the Upper Temperature Limit for Life. Science, 2003, 301, 934-934.	12.6	619
29	Electromicrobiology. Annual Review of Microbiology, 2012, 66, 391-409.	7.3	603
30	Hydrogen concentrations as an indicator of the predominant terminal electron-accepting reactions in aquatic sediments. Geochimica Et Cosmochimica Acta, 1988, 52, 2993-3003.	3.9	577
31	Geobacter. Advances in Microbial Physiology, 2011, 59, 1-100.	2.4	541
32	Competitive Mechanisms for Inhibition of Sulfate Reduction and Methane Production in the Zone of Ferric Iron Reduction in Sediments. Applied and Environmental Microbiology, 1987, 53, 2636-2641.	3.1	537
33	Oxidation of aromatic contaminants coupled to microbial iron reduction. Nature, 1989, 339, 297-300.	27.8	513
34	Microbial fuel cells: novel microbial physiologies and engineering approaches. Current Opinion in Biotechnology, 2006, 17, 327-332.	6.6	510
35	Syntrophy Goes Electric: Direct Interspecies Electron Transfer. Annual Review of Microbiology, 2017, 71, 643-664.	7.3	510
36	Cleaning up with genomics: applying molecular biology to bioremediation. Nature Reviews Microbiology, 2003, 1, 35-44.	28.6	497

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37	Microbiological evidence for Fe(III) reduction on early Earth. Nature, 1998, 395, 65-67.	27.8	486
38	Anaerobic Oxidation of Toluene, Phenol, and <i>p</i> -Cresol by the Dissimilatory Iron-Reducing Organism, GS-15. Applied and Environmental Microbiology, 1990, 56, 1858-1864.	3.1	484
39	Potential for Direct Interspecies Electron Transfer in Methanogenic Wastewater Digester Aggregates. MBio, 2011, 2, e00159-11.	4.1	472
40	Enzymatic iron and uranium reduction by sulfate-reducing bacteria. Marine Geology, 1993, 113, 41-53.	2.1	467
41	Cyclic voltammetry of biofilms of wild type and mutant Geobacter sulfurreducens on fuel cell anodes indicates possible roles of OmcB, OmcZ, type IV pili, and protons in extracellular electron transfer. Energy and Environmental Science, 2009, 2, 506.	30.8	462
42	A hydrogen-based subsurface microbial community dominated by methanogens. Nature, 2002, 415, 312-315.	27.8	452
43	Sulfate Reducers Can Outcompete Methanogens at Freshwater Sulfate Concentrations. Applied and Environmental Microbiology, 1983, 45, 187-192.	3.1	447
44	Reduction of Fe(III) in sediments by sulphate-reducing bacteria. Nature, 1993, 361, 436-438.	27.8	433
45	Promoting Interspecies Electron Transfer with Biochar. Scientific Reports, 2014, 4, 5019.	3.3	429
46	Power generation from ambient humidity using protein nanowires. Nature, 2020, 578, 550-554.	27.8	398
47	Bioremediation of metal contamination. Current Opinion in Biotechnology, 1997, 8, 285-289.	6.6	397
48	Geobacter metallireducens accesses insoluble Fe(iii) oxide by chemotaxis. Nature, 2002, 416, 767-769.	27.8	397
49	Deep subsurface microbial processes. Reviews of Geophysics, 1995, 33, 365.	23.0	396
50	Kinetic Analysis of Competition Between Sulfate Reducers and Methanogens for Hydrogen in Sediments. Applied and Environmental Microbiology, 1982, 43, 1373-1379.	3.1	395
51	Selection of a variant of Geobacter sulfurreducens with enhanced capacity for current production in microbial fuel cells. Biosensors and Bioelectronics, 2009, 24, 3498-3503.	10.1	383
52	Live wires: direct extracellular electron exchange for bioenergy and the bioremediation of energy-related contamination. Energy and Environmental Science, 2011, 4, 4896.	30.8	376
53	Enrichment of Members of the Family Geobacteraceae Associated with Stimulation of Dissimilatory Metal Reduction in Uranium-Contaminated Aquifer Sediments. Applied and Environmental Microbiology, 2002, 68, 2300-2306.	3.1	373
54	Anode Biofilm Transcriptomics Reveals Outer Surface Components Essential for High Density Current Production in Geobacter sulfurreducens Fuel Cells. PLoS ONE, 2009, 4, e5628.	2.5	373

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55	Harvesting energy from the marine sedimentâ€“water interface II. Biosensors and Bioelectronics, 2006, 21, 2058-2063.	10.1	371
56	Reduction of Chromate by <i>Desulfovibrio vulgaris</i> and Its <i>c</i> ₃ Cytochrome. Applied and Environmental Microbiology, 1994, 60, 726-728.	3.1	368
57	Organic matter mineralization with the reduction of ferric iron: A review. Geomicrobiology Journal, 1987, 5, 375-399.	2.0	350
58	Geothrix fermentans gen. nov., sp. nov., a novel Fe(III)-reducing bacterium from a hydrocarbon-contaminated aquifer. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 1615-1622.	1.7	345
59	Improved cathode materials for microbial electrosynthesis. Energy and Environmental Science, 2013, 6, 217-224.	30.8	339
60	Stimulated anoxic biodegradation of aromatic hydrocarbons using Fe(III) ligands. Nature, 1994, 370, 128-131.	27.8	338
61	Microbial Communities Associated with Anaerobic Benzene Degradation in a Petroleum-Contaminated Aquifer. Applied and Environmental Microbiology, 1999, 65, 3056-3063.	3.1	338
62	Rhodoferax ferrireducens sp. nov., a psychrotolerant, facultatively anaerobic bacterium that oxidizes acetate with the reduction of Fe(III). International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 669-673.	1.7	337
63	Electron Transfer by Desulfobulbus propionicus to Fe(III) and Graphite Electrodes. Applied and Environmental Microbiology, 2004, 70, 1234-1237.	3.1	334
64	Powering microbes with electricity: direct electron transfer from electrodes to microbes. Environmental Microbiology Reports, 2011, 3, 27-35.	2.4	332
65	Microbial Fe(III) reduction in subsurface environments. FEMS Microbiology Reviews, 1997, 20, 305-313.	8.6	325
66	Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures. Bioresource Technology, 2014, 173, 82-86.	9.6	323
67	Enzymic uranium precipitation. Environmental Science & Technology, 1992, 26, 205-207.	10.0	317
68	Enhancing anaerobic digestion of complex organic waste with carbon-based conductive materials. Bioresource Technology, 2016, 220, 516-522.	9.6	312
69	Microarray and genetic analysis of electron transfer to electrodes in <i>Geobacter sulfurreducens</i>. Environmental Microbiology, 2006, 8, 1805-1815.	3.8	311
70	Alignment of the <i>c</i> -Type Cytochrome OmcS along Pili of <i>Geobacter sulfurreducens</i>. Applied and Environmental Microbiology, 2010, 76, 4080-4084.	3.1	310
71	Mechanisms for Accessing Insoluble Fe(III) Oxide during Dissimilatory Fe(III) Reduction by Geothrix fermentans. Applied and Environmental Microbiology, 2002, 68, 2294-2299.	3.1	308
72	Remediation and Recovery of Uranium from Contaminated Subsurface Environments with Electrodes. Environmental Science & Technology, 2005, 39, 8943-8947.	10.0	303

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73	Magnetite compensates for the lack of a pilinâ€associated <scp><i>c</i></scp>â€type cytochrome in extracellular electron exchange. Environmental Microbiology, 2015, 17, 648-655.	3.8	300
74	Electrobiocommodities: powering microbial production of fuels and commodity chemicals from carbon dioxide with electricity. Current Opinion in Biotechnology, 2013, 24, 385-390.	6.6	299
75	Multiple influences of nitrate on uranium solubility during bioremediation of uranium-contaminated subsurface sediments. Environmental Microbiology, 2002, 4, 510-516.	3.8	295
76	Hydrogen and Formate Oxidation Coupled to Dissimilatory Reduction of Iron or Manganese by <i>Alteromonas putrefaciens</i>. Applied and Environmental Microbiology, 1989, 55, 700-706.	3.1	295
77	Microbial detoxification of metals and radionuclides. Current Opinion in Biotechnology, 2001, 12, 248-253.	6.6	294
78	Dissimilatory Fe(III) Reduction by the Marine Microorganism <i>Desulfuromonas acetoxidans</i>. Applied and Environmental Microbiology, 1993, 59, 734-742.	3.1	294
79	Humics as an electron donor for anaerobic respiration. Environmental Microbiology, 1999, 1, 89-98.	3.8	290
80	Mechanisms for Fe(III) Oxide Reduction in Sedimentary Environments. Geomicrobiology Journal, 2002, 19, 141-159.	2.0	286
81	Happy together: microbial communities that hook up to swap electrons. ISME Journal, 2017, 11, 327-336.	9.8	286
82	Model for the distribution of sulfate reduction and methanogenesis in freshwater sediments. Geochimica Et Cosmochimica Acta, 1986, 50, 11-18.	3.9	284
83	Lack of Production of Electron-Shuttling Compounds or Solubilization of Fe(III) during Reduction of Insoluble Fe(III) Oxide by Geobacter metallireducens. Applied and Environmental Microbiology, 2000, 66, 2248-2251.	3.1	279
84	Evidence for Involvement of an Electron Shuttle in Electricity Generation by Geothrix fermentans. Applied and Environmental Microbiology, 2005, 71, 2186-2189.	3.1	278
85	Bioremediation of uranium contamination with enzymatic uranium reduction. Environmental Science & Technology, 1992, 26, 2228-2234.	10.0	276
86	Genome-scale dynamic modeling of the competition between <i>Rhodoferax</i> and <i>Geobacter</i> in anoxic subsurface environments. ISME Journal, 2011, 5, 305-316.	9.8	275
87	Intermediary Metabolism of Organic Matter in the Sediments of a Eutrophic Lake. Applied and Environmental Microbiology, 1982, 43, 552-560.	3.1	271
88	Stimulating the anaerobic degradation of aromatic hydrocarbons in contaminated sediments by providing an electrode as the electron acceptor. Environmental Microbiology, 2010, 12, 1011-1020.	3.8	269
89	Recovery of Humic-Reducing Bacteria from a Diversity of Environments. Applied and Environmental Microbiology, 1998, 64, 1504-1509.	3.1	265
90	Dissimilatory arsenate and sulfate reduction in Desulfotomaculum auripigmentum sp. nov.. Archives of Microbiology, 1997, 168, 380-388.	2.2	264

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91	Bioremediation of organic and metal contaminants with dissimilatory metal reduction. Journal of Industrial Microbiology, 1995, 14, 85-93.	0.9	261
92	A Hydrogen-Oxidizing, Fe(III)-Reducing Microorganism from the Great Bay Estuary, New Hampshire. Applied and Environmental Microbiology, 1992, 58, 3211-3216.	3.1	257
93	Microbial Nanowires: A New Paradigm for Biological Electron Transfer and Bioelectronics. ChemSusChem, 2012, 5, 1039-1046.	6.8	255
94	Electricity Generation by <i>Geobacter sulfurreducens</i> Attached to Gold Electrodes. Langmuir, 2008, 24, 4376-4379.	3.5	253
95	Microbial Reduction of Iron, Manganese, and other Metals. Advances in Agronomy, 1995, , 175-231.	5.2	252
96	Microbial Mobilization of Arsenic from Sediments of the Aberjona Watershed. Environmental Science & Technology, 1997, 31, 2923-2930.	10.0	251
97	Metatranscriptomic Evidence for Direct Interspecies Electron Transfer between Geobacter and Methanothrix Species in Methanogenic Rice Paddy Soils. Applied and Environmental Microbiology, 2017, 83, .	3.1	247
98	Microbial nanowires for bioenergy applications. Current Opinion in Biotechnology, 2014, 27, 88-95.	6.6	246
99	Reduction of Fe(III), Mn(IV), and Toxic Metals at 100Â°C by Pyrobaculum islandicum. Applied and Environmental Microbiology, 2000, 66, 1050-1056.	3.1	245
100	Anaerobic Benzene Oxidation in the Fe(III) Reduction Zone of Petroleum-Contaminated Aquifers. Environmental Science & Technology, 1998, 32, 1222-1229.	10.0	242
101	Graphite Electrode as a Sole Electron Donor for Reductive Dechlorination of Tetrachlorethene by <i>Geobacter lovleyi</i>. Applied and Environmental Microbiology, 2008, 74, 5943-5947.	3.1	240
102	Potential enhancement of direct interspecies electron transfer for syntrophic metabolism of propionate and butyrate with biochar in up-flow anaerobic sludge blanket reactors. Bioresource Technology, 2016, 209, 148-156.	9.6	238
103	Rates of Microbial Metabolism in Deep Coastal Plain Aquifers. Applied and Environmental Microbiology, 1990, 56, 1865-1874.	3.1	237
104	Potential for Bioremediation of Uranium-Contaminated Aquifers with Microbial U(VI) Reduction. Soil and Sediment Contamination, 2002, 11, 339-357.	1.9	235
105	Extracellular electron transfer: wires, capacitors, iron lungs, and more. Geobiology, 2008, 6, 225-231.	2.4	232
106	Use of Dissolved H2 Concentrations To Determine Distribution of Microbially Catalyzed Redox Reactions in Anoxic Groundwater. Environmental Science & Technology, 1994, 28, 1205-1210.	10.0	231
107	Potential for Nonenzymatic Reduction of Fe(III) via Electron Shuttling in Subsurface Sediments. Environmental Science & Technology, 2000, 34, 2472-2478.	10.0	229
108	Purification and Characterization of OmcZ, an Outer-Surface, Octaheme <i>c</i> -Type Cytochrome Essential for Optimal Current Production by <i>Geobacter sulfurreducens</i>. Applied and Environmental Microbiology, 2010, 76, 3999-4007.	3.1	227

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109	Novel strategy for three-dimensional real-time imaging of microbial fuel cell communities: monitoring the inhibitory effects of proton accumulation within the anode biofilm. Energy and Environmental Science, 2009, 2, 113-119.	30.8	225
110	Acetate Availability and its Influence on Sustainable Bioremediation of Uranium-Contaminated Groundwater. Geomicrobiology Journal, 2011, 28, 519-539.	2.0	222
111	Electromicrobiology: the ecophysiology of phylogenetically diverse electroactive microorganisms. Nature Reviews Microbiology, 2022, 20, 5-19.	28.6	221
112	Reduction of Fe(III) oxide by methanogens in the presence and absence of extracellular quinones. Environmental Microbiology, 2002, 4, 115-124.	3.8	220
113	Microbiological and Geochemical Heterogeneity in an In Situ Uranium Bioremediation Field Site. Applied and Environmental Microbiology, 2005, 71, 6308-6318.	3.1	220
114	Biofilm conductivity is a decisive variable for high-current-density Geobacter sulfurreducens microbial fuel cells. Energy and Environmental Science, 2012, 5, 5790.	30.8	220
115	Enzymic versus nonenzymic mechanisms for iron(III) reduction in aquatic sediments. Environmental Science & Technology, 1991, 25, 1062-1067.	10.0	219
116	Specific localization of the <i>c</i>â€type cytochrome OmcZ at the anode surface in currentâ€producing biofilms of <i>Geobacter sulfurreducens</i>. Environmental Microbiology Reports, 2011, 3, 211-217.	2.4	214
117	Fluorescent properties of <i>c</i>â€type cytochromes reveal their potential role as an extracytoplasmic electron sink in <i>Geobacter sulfurreducens</i>. Environmental Microbiology, 2008, 10, 497-505.	3.8	209
118	Vanadium Respiration by Geobacter metallireducens : Novel Strategy for In Situ Removal of Vanadium from Groundwater. Applied and Environmental Microbiology, 2004, 70, 3091-3095.	3.1	208
119	Novel Processes for Anaerobic Sulfate Production from Elemental Sulfur by Sulfate-Reducing Bacteria. Applied and Environmental Microbiology, 1994, 60, 2394-2399.	3.1	203
120	A shift in the current: New applications and concepts for microbe-electrode electron exchange. Current Opinion in Biotechnology, 2011, 22, 441-448.	6.6	202
121	Reductive Precipitation of Gold by Dissimilatory Fe(III)-Reducing Bacteria andArchaea. Applied and Environmental Microbiology, 2001, 67, 3275-3279.	3.1	196
122	Geobacter Protein Nanowires. Frontiers in Microbiology, 2019, 10, 2078.	3.5	196
123	Potential Role of a Novel Psychrotolerant Member of the Family Geobacteraceae, Geopsychrobacter electrodiphilus gen. nov., sp. nov., in Electricity Production by a Marine Sediment Fuel Cell. Applied and Environmental Microbiology, 2004, 70, 6023-6030.	3.1	190
124	Growth of <i>Geobacter sulfurreducens</i> with Acetate in Syntrophic Cooperation with Hydrogen-Oxidizing Anaerobic Partners. Applied and Environmental Microbiology, 1998, 64, 2232-2236.	3.1	189
125	Growth of <i>Geobacter sulfurreducens</i> under nutrientâ€limiting conditions in continuous culture. Environmental Microbiology, 2005, 7, 641-648.	3.8	185
126	Gene expression and deletion analysis of mechanisms for electron transfer from electrodes to Geobacter sulfurreducens. Bioelectrochemistry, 2011, 80, 142-150.	4.6	184

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127	Application of cyclic voltammetry to investigate enhanced catalytic current generation by biofilm-modified anodes of Geobacter sulfurreducens strain DL1vs. variant strain KN400. Energy and Environmental Science, 2011, 4, 896-913.	30.8	183
128	Aromatic Amino Acids Required for Pili Conductivity and Long-Range Extracellular Electron Transport in Geobacter sulfurreducens. MBio, 2013, 4, .	4.1	179
129	Minimum Threshold for Hydrogen Metabolism in Methanogenic Bacteria. Applied and Environmental Microbiology, 1985, 49, 1530-1531.	3.1	178
130	Visualization of charge propagation along individual pili proteins using ambient electrostatic force microscopy. Nature Nanotechnology, 2014, 9, 1012-1017.	31.5	177
131	Lack of cytochrome involvement in long-range electron transport through conductive biofilms and nanowires of Geobacter sulfurreducens. Energy and Environmental Science, 2012, 5, 8651.	30.8	176
132	A Genetic System for Clostridium ljungdahlii: a Chassis for Autotrophic Production of Biocommodities and a Model Homoacetogen. Applied and Environmental Microbiology, 2013, 79, 1102-1109.	3.1	176
133	Anaerobic Degradation of Methyltert-Butyl Ether (MTBE) andtert-Butyl Alcohol (TBA). Environmental Science & Technology, 2001, 35, 1785-1790.	10.0	175
134	Structural Basis for Metallic-Like Conductivity in Microbial Nanowires. MBio, 2015, 6, e00084.	4.1	171
135	Evolution of electron transfer out of the cell: comparative genomics of six Geobacter genomes. BMC Genomics, 2010, 11, 40.	2.8	170
136	Electrically conductive pili from pilin genes of phylogenetically diverse microorganisms. ISME Journal, 2018, 12, 48-58.	9.8	169
137	Transcriptomic and Genetic Analysis of Direct Interspecies Electron Transfer. Applied and Environmental Microbiology, 2013, 79, 2397-2404.	3.1	168
138	Determination of Fe(III) and Fe(II) in Oxalate Extracts of Sediment. Soil Science Society of America Journal, 1987, 51, 938-941.	2.2	167
139	Geobacter bemidjiensis sp. nov. and Geobacter psychrophilus sp. nov., two novel Fe(III)-reducing subsurface isolates. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1667-1674.	1.7	167
140	Supercapacitors Based on <i>câ€‹</i>Type Cytochromes Using Conductive Nanostructured Networks of Living Bacteria. ChemPhysChem, 2012, 13, 463-468.	2.1	165
141	Application of the 5â€² Fluorogenic Exonuclease Assay (TaqMan) for Quantitative Ribosomal DNA and rRNA Analysis in Sediments. Applied and Environmental Microbiology, 2001, 67, 2781-2789.	3.1	160
142	Manganese inhibition of microbial iron reduction in anaerobic sediments. Geomicrobiology Journal, 1988, 6, 145-155.	2.0	157
143	Desulfuromonas palmitatis sp. nov., a marine dissimilatory Fe(III) reducer that can oxidize long-chain fatty acids. Archives of Microbiology, 1995, 164, 406-413.	2.2	157
144	Conductivity of individual Geobacter pili. RSC Advances, 2016, 6, 8354-8357.	3.6	157

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145	Reach out and touch someone: potential impact of DIET (direct interspecies energy transfer) on anaerobic biogeochemistry, bioremediation, and bioenergy. Reviews in Environmental Science and Biotechnology, 2011, 10, 101-105.	8.1	156
146	Hexadecane decay by methanogenesis. Nature, 2000, 404, 722-723.	27.8	155
147	Biochemical characterization of purified OmcS, a c-type cytochrome required for insoluble Fe(III) reduction in Geobacter sulfurreducens. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 404-412.	1.0	154
148	Anaerobic Hydrocarbon Degradation in Petroleum-Contaminated Harbor Sediments under Sulfate-Reducing and Artificially Imposed Iron-Reducing Conditions. Environmental Science & Technology, 1996, 30, 2784-2789.	10.0	150
149	Improved cathode for high efficient microbial-catalyzed reduction in microbial electrosynthesis cells. Physical Chemistry Chemical Physics, 2013, 15, 14290.	2.8	150
150	Possible Nonconductive Role of <i>Geobacter sulfurreducens</i> Pilus Nanowires in Biofilm Formation. Journal of Bacteriology, 2007, 189, 2125-2127.	2.2	148
151	Interspecies Electron Transfer via Hydrogen and Formate Rather than Direct Electrical Connections in Cocultures of Pelobacter carbinolicus and Geobacter sulfurreducens. Applied and Environmental Microbiology, 2012, 78, 7645-7651.	3.1	148
152	Aromatic Amino Acids Required for Pili Conductivity and Long-Range Extracellular Electron Transport in Geobacter sulfurreducens. MBio, 2013, 4, e00105-13.	4.1	148
153	Influence of dissimilatory metal reduction on fate of organic and metal contaminants in the subsurface. Hydrogeology Journal, 2000, 8, 77-88.	2.1	146
154	The genome sequence of Geobacter metallireducens: features of metabolism, physiology and regulation common and dissimilar to Geobacter sulfurreducens. BMC Microbiology, 2009, 9, 109.	3.3	145
155	Humic Acids as Electron Acceptors for Anaerobic Microbial Oxidation of Vinyl Chloride and Dichloroethene. Applied and Environmental Microbiology, 1998, 64, 3102-3105.	3.1	145
156	Geovibrio ferrireducens , a phylogenetically distinct dissimilatory Fe(III)-reducing bacterium. Archives of Microbiology, 1996, 165, 370-376.	2.2	144
157	Anaerobic Bioremediation of Benzene under Sulfate-Reducing Conditions in a Petroleum-Contaminated Aquifer. Environmental Science & Technology, 2000, 34, 2261-2266.	10.0	144
158	Comparison of 16S rRNA, nifD, recA, gyrB, rpoB and fusA genes within the family Geobacteraceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1591-1599.	1.7	144
159	Bioinspired bio-voltage memristors. Nature Communications, 2020, 11, 1861.	12.8	144
160	Fulvic Acid Oxidation State Detection Using Fluorescence Spectroscopy. Environmental Science & Technology, 2002, 36, 3170-3175.	10.0	141
161	Lack of Electricity Production by Pelobacter carbinolicus Indicates that the Capacity for Fe(III) Oxide Reduction Does Not Necessarily Confer Electron Transfer Ability to Fuel Cell Anodes. Applied and Environmental Microbiology, 2007, 73, 5347-5353.	3.1	141
162	Methanogenesis from Methanol and Methylamines and Acetogenesis from Hydrogen and Carbon Dioxide in the Sediments of a Eutrophic Lake. Applied and Environmental Microbiology, 1983, 45, 1310-1315.	3.1	140

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163	Anaerobic, Sulfate-Dependent Degradation of Polycyclic Aromatic Hydrocarbons in Petroleum-Contaminated Harbor Sediment. Environmental Science & Technology, 2002, 36, 4811-4817.	10.0	139
164	Growth with high planktonic biomass in<i>Shewanella oneidensis</i>fuel cells. FEMS Microbiology Letters, 2008, 278, 29-35.	1.8	139
165	Geobacter pickeringii sp. nov., Geobacter argillaceus sp. nov. and Pelosinus fermentans gen. nov., sp. nov., isolated from subsurface kaolin lenses. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 126-135.	1.7	137
166	Role of <i>Geobacter sulfurreducens</i> Outer Surface <i>c</i> -Type Cytochromes in Reduction of Soil Humic Acid and Anthraquinone-2,6-Disulfonate. Applied and Environmental Microbiology, 2010, 76, 2371-2375.	3.1	137
167	Syntrophic growth with direct interspecies electron transfer as the primary mechanism for energy exchange. Environmental Microbiology Reports, 2013, 5, 904-910.	2.4	137
168	Converting Carbon Dioxide to Butyrate with an Engineered Strain of Clostridium ljungdahlii. MBio, 2014, 5, e01636-14.	4.1	137
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