

Derek R Lovley

List of Publications by Year in descending order

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416
papers

81,745
citations

217

146
h-index

481

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. <i>Nature</i> , 2005, 435, 1098-1101.	13.7	2,189
2	Novel Mode of Microbial Energy Metabolism: Organic Carbon Oxidation Coupled to Dissimilatory Reduction of Iron or Manganese. <i>Applied and Environmental Microbiology</i> , 1988, 54, 1472-1480.	1.4	2,105
3	Electricity Production by <i>Geobacter sulfurreducens</i> Attached to Electrodes. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1548-1555.	1.4	1,966
4	Humic substances as electron acceptors for microbial respiration. <i>Nature</i> , 1996, 382, 445-448.	13.7	1,572
5	Electricity generation by direct oxidation of glucose in mediatorless microbial fuel cells. <i>Nature Biotechnology</i> , 2003, 21, 1229-1232.	9.4	1,326
6	Organic Matter Mineralization with Reduction of Ferric Iron in Anaerobic Sediments. <i>Applied and Environmental Microbiology</i> , 1986, 51, 683-689.	1.4	1,270
7	Microbial reduction of uranium. <i>Nature</i> , 1991, 350, 413-416.	13.7	1,262
8	Electrode-Reducing Microorganisms That Harvest Energy from Marine Sediments. <i>Science</i> , 2002, 295, 483-485.	6.0	1,234
9	Dissimilatory Fe(III) and Mn(IV) Reduction. <i>Advances in Microbial Physiology</i> , 2004, 49, 219-286.	1.0	1,228
10	Bug juice: harvesting electricity with microorganisms. <i>Nature Reviews Microbiology</i> , 2006, 4, 497-508.	13.6	1,192
11	A new model for electron flow during anaerobic digestion: direct interspecies electron transfer to <i>Methanosaeta</i> for the reduction of carbon dioxide to methane. <i>Energy and Environmental Science</i> , 2014, 7, 408-415.	15.6	1,074
12	Anaerobic production of magnetite by a dissimilatory iron-reducing microorganism. <i>Nature</i> , 1987, 330, 252-254.	13.7	900
13	Dissimilatory Metal Reduction. <i>Annual Review of Microbiology</i> , 1993, 47, 263-290.	2.9	885
14	Stimulating the In Situ Activity of <i>Geobacter</i> Species To Remove Uranium from the Groundwater of a Uranium-Contaminated Aquifer. <i>Applied and Environmental Microbiology</i> , 2003, 69, 5884-5891.	1.4	828
15	Rapid Assay for Microbially Reducible Ferric Iron in Aquatic Sediments. <i>Applied and Environmental Microbiology</i> , 1987, 53, 1536-1540.	1.4	823
16	Microbial Electrosynthesis: Feeding Microbes Electricity To Convert Carbon Dioxide and Water to Multicarbon Extracellular Organic Compounds. <i>MBio</i> , 2010, 1, .	1.8	815
17	Direct Exchange of Electrons Within Aggregates of an Evolved Syntrophic Coculture of Anaerobic Bacteria. <i>Science</i> , 2010, 330, 1413-1415.	6.0	791
18	Tunable metallic-like conductivity in microbial nanowire networks. <i>Nature Nanotechnology</i> , 2011, 6, 573-579.	15.6	762

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19	The microbe electric: conversion of organic matter to electricity. <i>Current Opinion in Biotechnology</i> , 2008, 19, 564-571.	3.3	753
20	Biofilm and Nanowire Production Leads to Increased Current in <i>Geobacter sulfurreducens</i> Fuel Cells. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7345-7348.	1.4	752
21	Promoting direct interspecies electron transfer with activated carbon. <i>Energy and Environmental Science</i> , 2012, 5, 8982.	15.6	718
22	Direct Interspecies Electron Transfer between <i>Geobacter metallireducens</i> and <i>Methanosarcina barkeri</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 4599-4605.	1.4	714
23	Quinone Moieties Act as Electron Acceptors in the Reduction of Humic Substances by Humics-Reducing Microorganisms. <i>Environmental Science & Technology</i> , 1998, 32, 2984-2989.	4.6	703
24	Graphite electrodes as electron donors for anaerobic respiration. <i>Environmental Microbiology</i> , 2004, 6, 596-604.	1.8	659
25	Harnessing microbially generated power on the seafloor. <i>Nature Biotechnology</i> , 2002, 20, 821-825.	9.4	640
26	Availability of Ferric Iron for Microbial Reduction in Bottom Sediments of the Freshwater Tidal Potomac River. <i>Applied and Environmental Microbiology</i> , 1986, 52, 751-757.	1.4	630
27	Electrosynthesis of Organic Compounds from Carbon Dioxide Is Catalyzed by a Diversity of Acetogenic Microorganisms. <i>Applied and Environmental Microbiology</i> , 2011, 77, 2882-2886.	1.4	625
28	Extending the Upper Temperature Limit for Life. <i>Science</i> , 2003, 301, 934-934.	6.0	619
29	Electromicrobiology. <i>Annual Review of Microbiology</i> , 2012, 66, 391-409.	2.9	603
30	Hydrogen concentrations as an indicator of the predominant terminal electron-accepting reactions in aquatic sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2993-3003.	1.6	577
31	<i>Geobacter</i> . <i>Advances in Microbial Physiology</i> , 2011, 59, 1-100.	1.0	541
32	Competitive Mechanisms for Inhibition of Sulfate Reduction and Methane Production in the Zone of Ferric Iron Reduction in Sediments. <i>Applied and Environmental Microbiology</i> , 1987, 53, 2636-2641.	1.4	537
33	Oxidation of aromatic contaminants coupled to microbial iron reduction. <i>Nature</i> , 1989, 339, 297-300.	13.7	513
34	Microbial fuel cells: novel microbial physiologies and engineering approaches. <i>Current Opinion in Biotechnology</i> , 2006, 17, 327-332.	3.3	510
35	Syntrophy Goes Electric: Direct Interspecies Electron Transfer. <i>Annual Review of Microbiology</i> , 2017, 71, 643-664.	2.9	510
36	Cleaning up with genomics: applying molecular biology to bioremediation. <i>Nature Reviews Microbiology</i> , 2003, 1, 35-44.	13.6	497

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37	Microbiological evidence for Fe(III) reduction on early Earth. <i>Nature</i> , 1998, 395, 65-67.	13.7	486
38	Anaerobic Oxidation of Toluene, Phenol, and <i>p</i> -Cresol by the Dissimilatory Iron-Reducing Organism, GS-15. <i>Applied and Environmental Microbiology</i> , 1990, 56, 1858-1864.	1.4	484
39	Potential for Direct Interspecies Electron Transfer in Methanogenic Wastewater Digester Aggregates. <i>MBio</i> , 2011, 2, e00159-11.	1.8	472
40	Enzymatic iron and uranium reduction by sulfate-reducing bacteria. <i>Marine Geology</i> , 1993, 113, 41-53.	0.9	467
41	Cyclic voltammetry of biofilms of wild type and mutant <i>Geobacter sulfurreducens</i> on fuel cell anodes indicates possible roles of OmcB, OmcZ, type IV pili, and protons in extracellular electron transfer. <i>Energy and Environmental Science</i> , 2009, 2, 506.	15.6	462
42	A hydrogen-based subsurface microbial community dominated by methanogens. <i>Nature</i> , 2002, 415, 312-315.	13.7	452
43	Sulfate Reducers Can Outcompete Methanogens at Freshwater Sulfate Concentrations. <i>Applied and Environmental Microbiology</i> , 1983, 45, 187-192.	1.4	447
44	Reduction of Fe(III) in sediments by sulphate-reducing bacteria. <i>Nature</i> , 1993, 361, 436-438.	13.7	433
45	Promoting Interspecies Electron Transfer with Biochar. <i>Scientific Reports</i> , 2014, 4, 5019.	1.6	429
46	Power generation from ambient humidity using protein nanowires. <i>Nature</i> , 2020, 578, 550-554.	13.7	398
47	Bioremediation of metal contamination. <i>Current Opinion in Biotechnology</i> , 1997, 8, 285-289.	3.3	397
48	<i>Geobacter metallireducens</i> accesses insoluble Fe(III) oxide by chemotaxis. <i>Nature</i> , 2002, 416, 767-769.	13.7	397
49	Deep subsurface microbial processes. <i>Reviews of Geophysics</i> , 1995, 33, 365.	9.0	396
50	Kinetic Analysis of Competition Between Sulfate Reducers and Methanogens for Hydrogen in Sediments. <i>Applied and Environmental Microbiology</i> , 1982, 43, 1373-1379.	1.4	395
51	Selection of a variant of <i>Geobacter sulfurreducens</i> with enhanced capacity for current production in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3498-3503.	5.3	383
52	Live wires: direct extracellular electron exchange for bioenergy and the bioremediation of energy-related contamination. <i>Energy and Environmental Science</i> , 2011, 4, 4896.	15.6	376
53	Enrichment of Members of the Family <i>Geobacteraceae</i> Associated with Stimulation of Dissimilatory Metal Reduction in Uranium-Contaminated Aquifer Sediments. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2300-2306.	1.4	373
54	Anode Biofilm Transcriptomics Reveals Outer Surface Components Essential for High Density Current Production in <i>Geobacter sulfurreducens</i> Fuel Cells. <i>PLoS ONE</i> , 2009, 4, e5628.	1.1	373

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55	Harvesting energy from the marine sediment-water interface II. Biosensors and Bioelectronics, 2006, 21, 2058-2063.	5.3	371
56	Reduction of Chromate by <i>Desulfovibrio vulgaris</i> and Its c^3 Cytochrome. Applied and Environmental Microbiology, 1994, 60, 726-728.	1.4	368
57	Organic matter mineralization with the reduction of ferric iron: A review. Geomicrobiology Journal, 1987, 5, 375-399.	1.0	350
58	<i>Geothrix fermentans</i> 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.	0.8	345
59	Improved cathode materials for microbial electrosynthesis. Energy and Environmental Science, 2013, 6, 217-224.	15.6	339
60	Stimulated anoxic biodegradation of aromatic hydrocarbons using Fe(III) ligands. Nature, 1994, 370, 128-131.	13.7	338
61	Microbial Communities Associated with Anaerobic Benzene Degradation in a Petroleum-Contaminated Aquifer. Applied and Environmental Microbiology, 1999, 65, 3056-3063.	1.4	338
62	<i>Rhodoferrax ferrireducens</i> 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.	0.8	337
63	Electron Transfer by <i>Desulfobulbus propionicus</i> to Fe(III) and Graphite Electrodes. Applied and Environmental Microbiology, 2004, 70, 1234-1237.	1.4	334
64	Powering microbes with electricity: direct electron transfer from electrodes to microbes. Environmental Microbiology Reports, 2011, 3, 27-35.	1.0	332
65	Microbial Fe(III) reduction in subsurface environments. FEMS Microbiology Reviews, 1997, 20, 305-313.	3.9	325
66	Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures. Bioresource Technology, 2014, 173, 82-86.	4.8	323
67	Enzymic uranium precipitation. Environmental Science & Technology, 1992, 26, 205-207.	4.6	317
68	Enhancing anaerobic digestion of complex organic waste with carbon-based conductive materials. Bioresource Technology, 2016, 220, 516-522.	4.8	312
69	Microarray and genetic analysis of electron transfer to electrodes in <i>Geobacter sulfurreducens</i> . Environmental Microbiology, 2006, 8, 1805-1815.	1.8	311
70	Alignment of the c^3 -Type Cytochrome OmcS along Pili of <i>Geobacter sulfurreducens</i> . Applied and Environmental Microbiology, 2010, 76, 4080-4084.	1.4	310
71	Mechanisms for Accessing Insoluble Fe(III) Oxide during Dissimilatory Fe(III) Reduction by <i>Geothrix fermentans</i> . Applied and Environmental Microbiology, 2002, 68, 2294-2299.	1.4	308
72	Remediation and Recovery of Uranium from Contaminated Subsurface Environments with Electrodes. Environmental Science & Technology, 2005, 39, 8943-8947.	4.6	303

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73	Magnetite compensates for the lack of a pilin-associated cytochrome in extracellular electron exchange. <i>Environmental Microbiology</i> , 2015, 17, 648-655.	1.8	300
74	Electrobiocommodities: powering microbial production of fuels and commodity chemicals from carbon dioxide with electricity. <i>Current Opinion in Biotechnology</i> , 2013, 24, 385-390.	3.3	299
75	Multiple influences of nitrate on uranium solubility during bioremediation of uranium-contaminated subsurface sediments. <i>Environmental Microbiology</i> , 2002, 4, 510-516.	1.8	295
76	Hydrogen and Formate Oxidation Coupled to Dissimilatory Reduction of Iron or Manganese by <i>Alteromonas putrefaciens</i> . <i>Applied and Environmental Microbiology</i> , 1989, 55, 700-706.	1.4	295
77	Microbial detoxification of metals and radionuclides. <i>Current Opinion in Biotechnology</i> , 2001, 12, 248-253.	3.3	294
78	Dissimilatory Fe(III) Reduction by the Marine Microorganism <i>Desulfuromonas acetoxidans</i> . <i>Applied and Environmental Microbiology</i> , 1993, 59, 734-742.	1.4	294
79	Humics as an electron donor for anaerobic respiration. <i>Environmental Microbiology</i> , 1999, 1, 89-98.	1.8	290
80	Mechanisms for Fe(III) Oxide Reduction in Sedimentary Environments. <i>Geomicrobiology Journal</i> , 2002, 19, 141-159.	1.0	286
81	Happy together: microbial communities that hook up to swap electrons. <i>ISME Journal</i> , 2017, 11, 327-336.	4.4	286
82	Model for the distribution of sulfate reduction and methanogenesis in freshwater sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 11-18.	1.6	284
83	Lack of Production of Electron-Shuttling Compounds or Solubilization of Fe(III) during Reduction of Insoluble Fe(III) Oxide by <i>Geobacter metallireducens</i> . <i>Applied and Environmental Microbiology</i> , 2000, 66, 2248-2251.	1.4	279
84	Evidence for Involvement of an Electron Shuttle in Electricity Generation by <i>Geothrix fermentans</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 2186-2189.	1.4	278
85	Bioremediation of uranium contamination with enzymatic uranium reduction. <i>Environmental Science & Technology</i> , 1992, 26, 2228-2234.	4.6	276
86	Genome-scale dynamic modeling of the competition between <i>Rhodospirillum rubrum</i> and <i>Geobacter</i> in anoxic subsurface environments. <i>ISME Journal</i> , 2011, 5, 305-316.	4.4	275
87	Intermediary Metabolism of Organic Matter in the Sediments of a Eutrophic Lake. <i>Applied and Environmental Microbiology</i> , 1982, 43, 552-560.	1.4	271
88	Stimulating the anaerobic degradation of aromatic hydrocarbons in contaminated sediments by providing an electrode as the electron acceptor. <i>Environmental Microbiology</i> , 2010, 12, 1011-1020.	1.8	269
89	Recovery of Humic-Reducing Bacteria from a Diversity of Environments. <i>Applied and Environmental Microbiology</i> , 1998, 64, 1504-1509.	1.4	265
90	Dissimilatory arsenate and sulfate reduction in <i>Desulfotomaculum auripigmentum</i> sp. nov.. <i>Archives of Microbiology</i> , 1997, 168, 380-388.	1.0	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.	1.4	257
93	Microbial Nanowires: A New Paradigm for Biological Electron Transfer and Bioelectronics. ChemSusChem, 2012, 5, 1039-1046.	3.6	255
94	Electricity Generation by <i>Geobacter sulfurreducens</i> Attached to Gold Electrodes. Langmuir, 2008, 24, 4376-4379.	1.6	253
95	Microbial Reduction of Iron, Manganese, and other Metals. Advances in Agronomy, 1995, , 175-231.	2.4	252
96	Microbial Mobilization of Arsenic from Sediments of the Aberjona Watershed. Environmental Science & Technology, 1997, 31, 2923-2930.	4.6	251
97	Metatranscriptomic Evidence for Direct Interspecies Electron Transfer between <i>Geobacter</i> and <i>Methanotrix</i> Species in Methanogenic Rice Paddy Soils. Applied and Environmental Microbiology, 2017, 83, .	1.4	247
98	Microbial nanowires for bioenergy applications. Current Opinion in Biotechnology, 2014, 27, 88-95.	3.3	246
99	Reduction of Fe(III), Mn(IV), and Toxic Metals at 100°C by <i>Pyrobaculum islandicum</i> . Applied and Environmental Microbiology, 2000, 66, 1050-1056.	1.4	245
100	Anaerobic Benzene Oxidation in the Fe(III) Reduction Zone of Petroleum-Contaminated Aquifers. Environmental Science & Technology, 1998, 32, 1222-1229.	4.6	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.	1.4	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.	4.8	238
103	Rates of Microbial Metabolism in Deep Coastal Plain Aquifers. Applied and Environmental Microbiology, 1990, 56, 1865-1874.	1.4	237
104	Potential for Bioremediation of Uranium-Contaminated Aquifers with Microbial U(VI) Reduction. Soil and Sediment Contamination, 2002, 11, 339-357.	1.1	235
105	Extracellular electron transfer: wires, capacitors, iron lungs, and more. Geobiology, 2008, 6, 225-231.	1.1	232
106	Use of Dissolved H ₂ Concentrations To Determine Distribution of Microbially Catalyzed Redox Reactions in Anoxic Groundwater. Environmental Science & Technology, 1994, 28, 1205-1210.	4.6	231
107	Potential for Nonenzymatic Reduction of Fe(III) via Electron Shuttling in Subsurface Sediments. Environmental Science & Technology, 2000, 34, 2472-2478.	4.6	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.	1.4	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. <i>Energy and Environmental Science</i> , 2009, 2, 113-119.	15.6	225
110	Acetate Availability and its Influence on Sustainable Bioremediation of Uranium-Contaminated Groundwater. <i>Geomicrobiology Journal</i> , 2011, 28, 519-539.	1.0	222
111	Electromicrobiology: the ecophysiology of phylogenetically diverse electroactive microorganisms. <i>Nature Reviews Microbiology</i> , 2022, 20, 5-19.	13.6	221
112	Reduction of Fe(III) oxide by methanogens in the presence and absence of extracellular quinones. <i>Environmental Microbiology</i> , 2002, 4, 115-124.	1.8	220
113	Microbiological and Geochemical Heterogeneity in an In Situ Uranium Bioremediation Field Site. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6308-6318.	1.4	220
114	Biofilm conductivity is a decisive variable for high-current-density <i>Geobacter sulfurreducens</i> microbial fuel cells. <i>Energy and Environmental Science</i> , 2012, 5, 5790.	15.6	220
115	Enzymic versus nonenzymic mechanisms for iron(III) reduction in aquatic sediments. <i>Environmental Science & Technology</i> , 1991, 25, 1062-1067.	4.6	219
116	Specific localization of the <i>c</i> -type cytochrome OmcZ at the anode surface in current-producing biofilms of <i>Geobacter sulfurreducens</i> . <i>Environmental Microbiology Reports</i> , 2011, 3, 211-217.	1.0	214
117	Fluorescent properties of <i>c</i> -type cytochromes reveal their potential role as an extracytoplasmic electron sink in <i>Geobacter sulfurreducens</i> . <i>Environmental Microbiology</i> , 2008, 10, 497-505.	1.8	209
118	Vanadium Respiration by <i>Geobacter metallireducens</i> : Novel Strategy for In Situ Removal of Vanadium from Groundwater. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3091-3095.	1.4	208
119	Novel Processes for Anaerobic Sulfate Production from Elemental Sulfur by Sulfate-Reducing Bacteria. <i>Applied and Environmental Microbiology</i> , 1994, 60, 2394-2399.	1.4	203
120	A shift in the current: New applications and concepts for microbe-electrode electron exchange. <i>Current Opinion in Biotechnology</i> , 2011, 22, 441-448.	3.3	202
121	Reductive Precipitation of Gold by Dissimilatory Fe(III)-Reducing Bacteria and Archaea. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3275-3279.	1.4	196
122	<i>Geobacter</i> Protein Nanowires. <i>Frontiers in Microbiology</i> , 2019, 10, 2078.	1.5	196
123	Potential Role of a Novel Psychrotolerant Member of the Family Geobacteraceae, <i>Geopsychrobacter electrodiphilus</i> gen. nov., sp. nov., in Electricity Production by a Marine Sediment Fuel Cell. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6023-6030.	1.4	190
124	Growth of <i>Geobacter sulfurreducens</i> with Acetate in Syntrophic Cooperation with Hydrogen-Oxidizing Anaerobic Partners. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2232-2236.	1.4	189
125	Growth of <i>Geobacter sulfurreducens</i> under nutrient-limiting conditions in continuous culture. <i>Environmental Microbiology</i> , 2005, 7, 641-648.	1.8	185
126	Gene expression and deletion analysis of mechanisms for electron transfer from electrodes to <i>Geobacter sulfurreducens</i> . <i>Bioelectrochemistry</i> , 2011, 80, 142-150.	2.4	184

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127	Application of cyclic voltammetry to investigate enhanced catalytic current generation by biofilm-modified anodes of <i>Geobacter sulfurreducens</i> strain DL1 vs. variant strain KN400. <i>Energy and Environmental Science</i> , 2011, 4, 896-913.	15.6	183
128	Aromatic Amino Acids Required for Pili Conductivity and Long-Range Extracellular Electron Transport in <i>Geobacter sulfurreducens</i> . <i>MBio</i> , 2013, 4, .	1.8	179
129	Minimum Threshold for Hydrogen Metabolism in Methanogenic Bacteria. <i>Applied and Environmental Microbiology</i> , 1985, 49, 1530-1531.	1.4	178
130	Visualization of charge propagation along individual pili proteins using ambient electrostatic force microscopy. <i>Nature Nanotechnology</i> , 2014, 9, 1012-1017.	15.6	177
131	Lack of cytochrome involvement in long-range electron transport through conductive biofilms and nanowires of <i>Geobacter sulfurreducens</i> . <i>Energy and Environmental Science</i> , 2012, 5, 8651.	15.6	176
132	A Genetic System for <i>Clostridium ljungdahlii</i> : a Chassis for Autotrophic Production of Biocommodities and a Model Homoacetogen. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1102-1109.	1.4	176
133	Anaerobic Degradation of Methyltert-Butyl Ether (MTBE) and tert-Butyl Alcohol (TBA). <i>Environmental Science & Technology</i> , 2001, 35, 1785-1790.	4.6	175
134	Structural Basis for Metallic-Like Conductivity in Microbial Nanowires. <i>MBio</i> , 2015, 6, e00084.	1.8	171
135	Evolution of electron transfer out of the cell: comparative genomics of six <i>Geobacter</i> genomes. <i>BMC Genomics</i> , 2010, 11, 40.	1.2	170
136	Electrically conductive pili from pilin genes of phylogenetically diverse microorganisms. <i>ISME Journal</i> , 2018, 12, 48-58.	4.4	169
137	Transcriptomic and Genetic Analysis of Direct Interspecies Electron Transfer. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2397-2404.	1.4	168
138	Determination of Fe(III) and Fe(II) in Oxalate Extracts of Sediment. <i>Soil Science Society of America Journal</i> , 1987, 51, 938-941.	1.2	167
139	<i>Geobacter bemidjensis</i> sp. nov. and <i>Geobacter psychrophilus</i> sp. nov., two novel Fe(III)-reducing subsurface isolates. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 1667-1674.	0.8	167
140	Supercapacitors Based on α -Type Cytochromes Using Conductive Nanostructured Networks of Living Bacteria. <i>ChemPhysChem</i> , 2012, 13, 463-468.	1.0	165
141	Application of the 5 β Fluorogenic Exonuclease Assay (TaqMan) for Quantitative Ribosomal DNA and rRNA Analysis in Sediments. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2781-2789.	1.4	160
142	Manganese inhibition of microbial iron reduction in anaerobic sediments. <i>Geomicrobiology Journal</i> , 1988, 6, 145-155.	1.0	157
143	<i>Desulfuromonas palmitatis</i> sp. nov., a marine dissimilatory Fe(III) reducer that can oxidize long-chain fatty acids. <i>Archives of Microbiology</i> , 1995, 164, 406-413.	1.0	157
144	Conductivity of individual <i>Geobacter</i> pili. <i>RSC Advances</i> , 2016, 6, 8354-8357.	1.7	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. <i>Reviews in Environmental Science and Biotechnology</i> , 2011, 10, 101-105.	3.9	156
146	Hexadecane decay by methanogenesis. <i>Nature</i> , 2000, 404, 722-723.	13.7	155
147	Biochemical characterization of purified OmcS, a c-type cytochrome required for insoluble Fe(III) reduction in <i>Geobacter sulfurreducens</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 404-412.	0.5	154
148	Anaerobic Hydrocarbon Degradation in Petroleum-Contaminated Harbor Sediments under Sulfate-Reducing and Artificially Imposed Iron-Reducing Conditions. <i>Environmental Science & Technology</i> , 1996, 30, 2784-2789.	4.6	150
149	Improved cathode for high efficient microbial-catalyzed reduction in microbial electrosynthesis cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14290.	1.3	150
150	Possible Nonconductive Role of <i>Geobacter sulfurreducens</i> Pilus Nanowires in Biofilm Formation. <i>Journal of Bacteriology</i> , 2007, 189, 2125-2127.	1.0	148
151	Interspecies Electron Transfer via Hydrogen and Formate Rather than Direct Electrical Connections in Cocultures of <i>Pelobacter carbinolicus</i> and <i>Geobacter sulfurreducens</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 7645-7651.	1.4	148
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