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	Electromicrobiology: the ecophysiology of phylogenetically diverse electroactive microorganisms. Nature Reviews Microbiology, 2022, 20, 5-19.	28.6	221
2	Electrotrophy: Other microbial species, iron, and electrodes as electron donors for microbial respirations. Bioresource Technology, 2022, 345, 126553.	9.6	39
3	Microbial nanowires. Current Biology, 2022, 32, R110-R112.	3.9	11
4	Microbe Profile: Geobacter metallireducens: a model for novel physiologies of biogeochemical and technological significance. Microbiology (United Kingdom), 2022, 168, .	1.8	1
5	<i>Desulfovibrio vulgaris</i> as a model microbe for the study of corrosion under sulfateâ€reducing conditions. , 2022, 1, 13-20.		12
6	Direct microbial electron uptake as a mechanism for stainless steel corrosion in aerobic environments. Water Research, 2022, 219, 118553.	11.3	63
7	Untangling Geobacter sulfurreducens Nanowires. MBio, 2022, 13, .	4.1	3
8	Microbial corrosion of metals: The corrosion microbiome. Advances in Microbial Physiology, 2021, 78, 317-390.	2.4	58
9	Solvent-Induced Assembly of Microbial Protein Nanowires into Superstructured Bundles. Biomacromolecules, 2021, 22, 1305-1311.	5.4	6
10	Stainless steel corrosion via direct iron-to-microbe electron transfer by <i>Geobacter</i> species. ISME Journal, 2021, 15, 3084-3093.	9.8	113
11	Self-sustained green neuromorphic interfaces. Nature Communications, 2021, 12, 3351.	12.8	42
12	Correlation of Key Physiological Properties of <i>Methanosarcina</i> Isolates with Environment of Origin. Applied and Environmental Microbiology, 2021, 87, e0073121.	3.1	26
13	Direct Observation of Electrically Conductive Pili Emanating from <i>Geobacter sulfurreducens</i>. MBio, 2021, 12, e0220921.	4.1	47
14	Generation of High Current Densities in Geobacter sulfurreducens Lacking the Putative Gene for the PilB Pilus Assembly Motor. Microbiology Spectrum, 2021, 9, e0087721.	3.0	4
15	Intrinsically Conductive Microbial Nanowires for â€˜Greenâ€™ Electronics with Novel Functions. Trends in Biotechnology, 2021, 39, 940-952.	9.3	55
16	Mechanisms for Electron Uptake by Methanosarcina acetivorans during Direct Interspecies Electron Transfer. MBio, 2021, 12, e0234421.	4.1	41
17	Extracellular Electron Exchange Capabilities of <i>Desulfovibrio ferrophilus</i> and <i>Desulfopila corrodens</i>. Environmental Science & Technology, 2021, 55, 16195-16203.	10.0	50
18	<i>Syntrophus</i> conductive pili demonstrate that common hydrogen-donating syntrophs can have a direct electron transfer option. ISME Journal, 2020, 14, 837-846.	9.8	106

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19	<i>Methanobacterium</i> Capable of Direct Interspecies Electron Transfer. Environmental Science & Technology, 2020, 54, 15347-15354.	10.0	135
20	Sparking Anaerobic Digestion: Promoting Direct Interspecies Electron Transfer to Enhance Methane Production. IScience, 2020, 23, 101794.	4.1	106
21	Protein Nanowires: the Electrification of the Microbial World and Maybe Our Own. Journal of Bacteriology, 2020, 202, .	2.2	44
22	Multifunctional Protein Nanowire Humidity Sensors for Green Wearable Electronics. Advanced Electronic Materials, 2020, 6, 2000721.	5.1	40
23	Bioelectronic protein nanowire sensors for ammonia detection. Nano Research, 2020, 13, 1479-1484.	10.4	41
24	An <i>Escherichia coli</i> Chassis for Production of Electrically Conductive Protein Nanowires. ACS Synthetic Biology, 2020, 9, 647-654.	3.8	62
25	Power generation from ambient humidity using protein nanowires. Nature, 2020, 578, 550-554.	27.8	398
26	Bioinspired bio-voltage memristors. Nature Communications, 2020, 11, 1861.	12.8	144
27	Decorating the Outer Surface of Microbially Produced Protein Nanowires with Peptides. ACS Synthetic Biology, 2019, 8, 1809-1817.	3.8	54
28	A Membrane-Bound Cytochrome Enables <i>Methanosarcina acetivorans</i> To Conserve Energy from Extracellular Electron Transfer. MBio, 2019, 10, .	4.1	76
29	Geobacter Protein Nanowires. Frontiers in Microbiology, 2019, 10, 2078.	3.5	196
30	Cryo-EM reveals the structural basis of long-range electron transport in a cytochrome-based bacterial nanowire. Communications Biology, 2019, 2, 219.	4.4	120
31	The Archaellum of Methanospirillum hungatei Is Electrically Conductive. MBio, 2019, 10, .	4.1	112
32	Iron Corrosion via Direct Metal-Microbe Electron Transfer. MBio, 2019, 10, .	4.1	107
33	A pilin chaperone required for the expression of electrically conductive <i>Geobacter sulfurreducens</i> pili. Environmental Microbiology, 2019, 21, 2511-2522.	3.8	28
34	Potential for Methanosarcina to Contribute to Uranium Reduction during Acetate-Promoted Groundwater Bioremediation. Microbial Ecology, 2018, 76, 660-667.	2.8	27
35	Electrically conductive pili from pilin genes of phylogenetically diverse microorganisms. ISME Journal, 2018, 12, 48-58.	9.8	169
36	Electron and Proton Flux for Carbon Dioxide Reduction in Methanosarcina barkeri During Direct Interspecies Electron Transfer. Frontiers in Microbiology, 2018, 9, 3109.	3.5	75

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37	Conductive Composite Materials Fabricated from Microbially Produced Protein Nanowires. Small, 2018, 14, e1802624.	10.0	37
38	Construction of a Geobacter Strain With Exceptional Growth on Cathodes. Frontiers in Microbiology, 2018, 9, 1512.	3.5	48
39	<i>Geobacter</i> Strains Expressing Poorly Conductive Pili Reveal Constraints on Direct Interspecies Electron Transfer Mechanisms. MBio, 2018, 9, .	4.1	78
40	The Hydrogen Economy of Methanosarcina barkeri: Life in the Fast Lane. Journal of Bacteriology, 2018, 200, .	2.2	13
41	Expressing the <i>Geobacter metallireducens</i> PilA in <i>Geobacter sulfurreducens</i> Yields Pili with Exceptional Conductivity. MBio, 2017, 8, .	4.1	116
42	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
43	Toward establishing minimum requirements for extracellular electron transfer in Geobacter sulfurreducens. FEMS Microbiology Letters, 2017, 364, .	1.8	39
44	Electrically conductive pili: Biological function and potential applications in electronics. Current Opinion in Electrochemistry, 2017, 4, 190-198.	4.8	123
45	Syntrophy Goes Electric: Direct Interspecies Electron Transfer. Annual Review of Microbiology, 2017, 71, 643-664.	7.3	510
46	e-Biologics: Fabrication of Sustainable Electronics with â€œGreenâ€•Biological Materials. MBio, 2017, 8, .	4.1	44
47	Happy together: microbial communities that hook up to swap electrons. ISME Journal, 2017, 11, 327-336.	9.8	286
48	Biofilm Formation by Clostridium ljungdahlii Is Induced by Sodium Chloride Stress: Experimental Evaluation and Transcriptome Analysis. PLoS ONE, 2017, 12, e0170406.	2.5	60
49	The electrically conductive pili of Geobacter species are a recently evolved feature for extracellular electron transfer. Microbial Genomics, 2016, 2, e000072.	2.0	99
50	Expanding the Diet for DIET: Electron Donors Supporting Direct Interspecies Electron Transfer (DIET) in Defined Co-Cultures. Frontiers in Microbiology, 2016, 7, 236.	3.5	56
51	The Low Conductivity of Geobacter uraniireducens Pili Suggests a Diversity of Extracellular Electron Transfer Mechanisms in the Genus Geobacter. Frontiers in Microbiology, 2016, 07, 980.	3.5	84
52	How to Sustainably Feed a Microbe: Strategies for Biological Production of Carbon-Based Commodities with Renewable Electricity. Frontiers in Microbiology, 2016, 7, 1879.	3.5	24
53	Low Energy Atomic Models Suggesting a Pilus Structure that could Account for Electrical Conductivity of Geobacter sulfurreducens Pili. Scientific Reports, 2016, 6, 23385.	3.3	43
54	Enhancing anaerobic digestion of complex organic waste with carbon-based conductive materials. Bioresource Technology, 2016, 220, 516-522.	9.6	312

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55	Genetic switches and related tools for controlling gene expression and electrical outputs of <i>Geobacter sulfurreducens</i>. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1561-1575.	3.0	26
56	Synthetic Biological Protein Nanowires with High Conductivity. Small, 2016, 12, 4481-4485.	10.0	122
57	Reply to 'Measuring conductivity of living Geobacter sulfurreducens biofilms'. Nature Nanotechnology, 2016, 11, 913-914.	31.5	23
58	Conductivity of individual Geobacter pili. RSC Advances, 2016, 6, 8354-8357.	3.6	157
59	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
60	Functional environmental proteomics: elucidating the role of a <i>c</i>-type cytochrome abundant during uranium bioremediation. ISME Journal, 2016, 10, 310-320.	9.8	39
61	Link between capacity for current production and syntrophic growth in Geobacter species. Frontiers in Microbiology, 2015, 6, 744.	3.5	133
62	Simplifying microbial electrosynthesis reactor design. Frontiers in Microbiology, 2015, 6, 468.	3.5	111
63	Protozoan grazing reduces the current output of microbial fuel cells. Bioresource Technology, 2015, 193, 8-14.	9.6	13
64	Syntrophic growth via quinone-mediated interspecies electron transfer. Frontiers in Microbiology, 2015, 6, 121.	3.5	89
65	Structural Basis for Metallic-Like Conductivity in Microbial Nanowires. MBio, 2015, 6, e00084.	4.1	171
66	A severe reduction in the cytochrome <scp>C</scp> content of <scp><i>G</i></scp><i>eobacter sulfurreducens</i> eliminates its capacity for extracellular electron transfer. Environmental Microbiology Reports, 2015, 7, 219-226.	2.4	65
67	Bicarbonate impact on U(VI) bioreduction in a shallow alluvial aquifer. Geochimica Et Cosmochimica Acta, 2015, 150, 106-124.	3.9	58
68	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
69	Seeing is believing: novel imaging techniques help clarify microbial nanowire structure and function. Environmental Microbiology, 2015, 17, 2209-2215.	3.8	80
70	Centimeter-long electron transport in marine sediments via conductive minerals. ISME Journal, 2015, 9, 527-531.	9.8	49
71	Evidence of <i>Geobacter</i>-associated phage in a uranium-contaminated aquifer. ISME Journal, 2015, 9, 333-346.	9.8	28
72	Microbial Mercury Reduction. , 2014, , 175-197.		23

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73	Microbially Influenced Corrosion of Steel. , 2014, , 159-173.		13
74	Lactose-Inducible System for Metabolic Engineering of Clostridium ljungdahlii. Applied and Environmental Microbiology, 2014, 80, 2410-2416.	3.1	98
75	Identification of genes specifically required for the anaerobic metabolism of benzene in Geobacter metallireducens. Frontiers in Microbiology, 2014, 5, 245.	3.5	26
76	Methane production from protozoan endosymbionts following stimulation of microbial metabolism within subsurface sediments. Frontiers in Microbiology, 2014, 5, 366.	3.5	31
77	The Dnmt2 RNA methyltransferase homolog of Geobacter sulfurreducens specifically methylates tRNA-Glu. Nucleic Acids Research, 2014, 42, 6487-6496.	14.5	27
78	Proteome of Geobacter sulfurreducens in the presence of U(VI). Microbiology (United Kingdom), 2014, 160, 2607-2617.	1.8	34
79	Constraint-Based Modeling of Carbon Fixation and the Energetics of Electron Transfer in Geobacter metallireducens. PLoS Computational Biology, 2014, 10, e1003575.	3.2	38
80	Real-time monitoring of subsurface microbial metabolism with graphite electrodes. Frontiers in Microbiology, 2014, 5, 621.	3.5	18
81	Converting Carbon Dioxide to Butyrate with an Engineered Strain of Clostridium ljungdahlii. MBio, 2014, 5, e01636-14.	4.1	137
82	The Iron Stimulon and Fur Regulon of Geobacter sulfurreducens and Their Role in Energy Metabolism. Applied and Environmental Microbiology, 2014, 80, 2918-2927.	3.1	42
83	Microbial nanowires for bioenergy applications. Current Opinion in Biotechnology, 2014, 27, 88-95.	6.6	246
84	Sulfur oxidation to sulfate coupled with electron transfer to electrodes by Desulfuromonas strain TZ1. Microbiology (United Kingdom), 2014, 160, 123-129.	1.8	41
85	A Geobacter sulfurreducens Strain Expressing Pseudomonas aeruginosa Type IV Pili Localizes OmcS on Pili but Is Deficient in Fe(III) Oxide Reduction and Current Production. Applied and Environmental Microbiology, 2014, 80, 1219-1224.	3.1	113
86	Correlation between microbial community and granule conductivity in anaerobic bioreactors for brewery wastewater treatment. Bioresource Technology, 2014, 174, 306-310.	9.6	137
87	Visualization of charge propagation along individual pili proteins using ambient electrostatic force microscopy. Nature Nanotechnology, 2014, 9, 1012-1017.	31.5	177
88	Direct Interspecies Electron Transfer between Geobacter metallireducens and Methanosarcina barkeri. Applied and Environmental Microbiology, 2014, 80, 4599-4605.	3.1	714
89	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
90	Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures. Bioresource Technology, 2014, 173, 82-86.	9.6	323

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91	Going Wireless: Fe(III) Oxide Reduction without Pili by Geobacter sulfurreducens Strain JS-1. Applied and Environmental Microbiology, 2014, 80, 4331-4340.	3.1	84
92	Promoting Interspecies Electron Transfer with Biochar. Scientific Reports, 2014, 4, 5019.	3.3	429
93	Improved cathode for high efficient microbial-catalyzed reduction in microbial electrosynthesis cells. Physical Chemistry Chemical Physics, 2013, 15, 14290.	2.8	150
94	U(VI) Reduction by Diverse Outer Surface <i>c</i> -Type Cytochromes of Geobacter sulfurreducens. Applied and Environmental Microbiology, 2013, 79, 6369-6374.	3.1	78
95	Field evidence of selenium bioreduction in a uraniumâ€contaminated aquifer. Environmental Microbiology Reports, 2013, 5, 444-452.	2.4	54
96	Syntrophic growth with direct interspecies electron transfer as the primary mechanism for energy exchange. Environmental Microbiology Reports, 2013, 5, 904-910.	2.4	137
97	Anaerobic Benzene Oxidation via Phenol in Geobacter metallireducens. Applied and Environmental Microbiology, 2013, 79, 7800-7806.	3.1	99
98	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
99	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
100	Improved cathode materials for microbial electrosynthesis. Energy and Environmental Science, 2013, 6, 217-224.	30.8	339
101	Bioremediation of uranium-contaminated groundwater: a systems approach to subsurface biogeochemistry. Current Opinion in Biotechnology, 2013, 24, 489-497.	6.6	119
102	Engineering Geobacter sulfurreducens to produce a highly cohesive conductive matrix with enhanced capacity for current production. Energy and Environmental Science, 2013, 6, 1901.	30.8	134
103	Enrichment of specific protozoan populations during <i>in situ</i> bioremediation of uranium-contaminated groundwater. ISME Journal, 2013, 7, 1286-1298.	9.8	34
104	Aromatic Amino Acids Required for Pili Conductivity and Long-Range Extracellular Electron Transport in Geobacter sulfurreducens. MBio, 2013, 4, e00105-13.	4.1	148
105	Characterization and transcription of arsenic respiration and resistance genes during <i>in situ</i> uranium bioremediation. ISME Journal, 2013, 7, 370-383.	9.8	80
106	A lipid membrane intercalating conjugated oligoelectrolyte enables electrode driven succinate production in Shewanella. Energy and Environmental Science, 2013, 6, 1761.	30.8	54
107	Transcriptomic and Genetic Analysis of Direct Interspecies Electron Transfer. Applied and Environmental Microbiology, 2013, 79, 2397-2404.	3.1	168
108	Sulfide-Driven Microbial Electrosynthesis. Environmental Science & Technology, 2013, 47, 568-573.	10.0	101

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109	Outer Cell Surface Components Essential for Fe(III) Oxide Reduction by Geobacter metallireducens. Applied and Environmental Microbiology, 2013, 79, 901-907.	3.1	100
110	Aromatic Amino Acids Required for Pili Conductivity and Long-Range Extracellular Electron Transport in Geobacter sulfurreducens. MBio, 2013, 4, .	4.1	179
111	Molecular Analysis of the <i>In Situ</i> Growth Rates of Subsurface Geobacter Species. Applied and Environmental Microbiology, 2013, 79, 1646-1653.	3.1	35
112	Fluctuations in Species-Level Protein Expression Occur during Element and Nutrient Cycling in the Subsurface. PLoS ONE, 2013, 8, e57819.	2.5	21
113	Laboratory evolution of <i>Geobacter sulfurreducens</i> for enhanced growth on lactate via a single-base-pair substitution in a transcriptional regulator. ISME Journal, 2012, 6, 975-983.	9.8	33
114	Microbial Functional Gene Diversity with a Shift of Subsurface Redox Conditions during <i>In Situ</i> Uranium Reduction. Applied and Environmental Microbiology, 2012, 78, 2966-2972.	3.1	42
115	Role of the NiFe Hydrogenase Hya in Oxidative Stress Defense in Geobacter sulfurreducens. Journal of Bacteriology, 2012, 194, 2248-2253.	2.2	36
116	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
117	Genome-scale analysis of anaerobic benzoate and phenol metabolism in the hyperthermophilic archaeon <i>Ferroglobus placidus</i>. ISME Journal, 2012, 6, 146-157.	9.8	63
118	Electrical Conductivity in a Mixed-Species Biofilm. Applied and Environmental Microbiology, 2012, 78, 5967-5971.	3.1	106
119	Anaerobic Benzene Oxidation by Geobacter Species. Applied and Environmental Microbiology, 2012, 78, 8304-8310.	3.1	90
120	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
121	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
122	Long-range electron transport to Fe(III) oxide via pili with metallic-like conductivity. Biochemical Society Transactions, 2012, 40, 1186-1190.	3.4	53
123	Electromicrobiology. Annual Review of Microbiology, 2012, 66, 391-409.	7.3	603
124	Comment on â€œOn electrical conductivity of microbial nanowires and biofilmsâ€•by S. M. Strycharz-Glaven, R. M. Snider, A. Guiseppi-Elie and L. M. Tender, Energy Environ. Sci., 2011, 4, 4366. Energy and Environmental Science, 2012, 5, 6247.	30.8	80
125	Promoting direct interspecies electron transfer with activated carbon. Energy and Environmental Science, 2012, 5, 8982.	30.8	718
126	The design of longâ€term effective uranium bioremediation strategy using a community metabolic model. Biotechnology and Bioengineering, 2012, 109, 2475-2483.	3.3	65

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127	Realâ€Time Spatial Gene Expression Analysis within Currentâ€Producing Biofilms. ChemSusChem, 2012, 5, 1092-1098.	6.8	47
128	Microbial Nanowires: A New Paradigm for Biological Electron Transfer and Bioelectronics. ChemSusChem, 2012, 5, 1039-1046.	6.8	255
129	Identification of Multicomponent Histidine-Aspartate Phosphorelay System Controlling Flagellar and Motility Gene Expression in Geobacter Species. Journal of Biological Chemistry, 2012, 287, 10958-10966.	3.4	20
130	Phylogenetic Classification of Diverse LysR-Type Transcriptional Regulators of a Model Prokaryote Geobacter sulfurreducens. Journal of Molecular Evolution, 2012, 74, 187-205.	1.8	6
131	Uranium reduction and microbial community development in response to stimulation with different electron donors. Biodegradation, 2012, 23, 535-546.	3.0	24
132	A genetic system for <i>Geobacter metallireducens</i>: role of the flagellin and pilin in the reduction of Fe(III) oxide. Environmental Microbiology Reports, 2012, 4, 82-88.	2.4	112
133	Supercapacitors Based on <i>câ€</i>Type Cytochromes Using Conductive Nanostructured Networks of Living Bacteria. ChemPhysChem, 2012, 13, 463-468.	2.1	165
134	A Bayesian Model for Pooling Gene Expression Studies That Incorporates Co-Regulation Information. PLoS ONE, 2012, 7, e52137.	2.5	5
135	Acetate Availability and its Influence on Sustainable Bioremediation of Uranium-Contaminated Groundwater. Geomicrobiology Journal, 2011, 28, 519-539.	2.0	222
136	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
137	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
138	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
139	Geobacter. Advances in Microbial Physiology, 2011, 59, 1-100.	2.4	541
140	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
141	Powering microbes with electricity: direct electron transfer from electrodes to microbes. Environmental Microbiology Reports, 2011, 3, 27-35.	2.4	332
142	Complete genome sequence of Ferroglobus placidus AEDII12DO. Standards in Genomic Sciences, 2011, 5, 50-60.	1.5	32
143	A câ€type cytochrome and a transcriptional regulator responsible for enhanced extracellular electron transfer in <i>Geobacter sulfurreducens</i> revealed by adaptive evolution. Environmental Microbiology, 2011, 13, 13-23.	3.8	89
144	In situ to in silico and back: elucidating the physiology and ecology of Geobacter spp. using genome-scale modelling. Nature Reviews Microbiology, 2011, 9, 39-50.	28.6	128

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145	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
146	Development of a biomarker for <i>Geobacter</i> activity and strain composition; Proteogenomic analysis of the citrate synthase protein during bioremediation of U(VI). Microbial Biotechnology, 2011, 4, 55-63.	4.2	56
147	Direct coupling of a genome-scale microbial in silico model and a groundwater reactive transport model. Journal of Contaminant Hydrology, 2011, 122, 96-103.	3.3	44
148	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
149	Tunable metallic-like conductivity in microbial nanowire networks. Nature Nanotechnology, 2011, 6, 573-579.	31.5	762
150	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
151	Gene expression and deletion analysis of mechanisms for electron transfer from electrodes to Geobacter sulfurreducens. Bioelectrochemistry, 2011, 80, 142-150.	4.6	184
152	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
153	Anaerobes unleashed: Aerobic fuel cells of Geobacter sulfurreducens. Journal of Power Sources, 2011, 196, 7514-7518.	7.8	38
154	Potential for Direct Interspecies Electron Transfer in Methanogenic Wastewater Digester Aggregates. MBio, 2011, 2, e00159-11.	4.1	472
155	Monitoring the Metabolic Status of Geobacter Species in Contaminated Groundwater by Quantifying Key Metabolic Proteins with Geobacter-Specific Antibodies. Applied and Environmental Microbiology, 2011, 77, 4597-4602.	3.1	30
156	Genome Diversity of the TetR Family of Transcriptional Regulators in a Metal-Reducing Bacterial Family<i>Geobacteraceae</i>and Other Microbial Species. OMICS A Journal of Integrative Biology, 2011, 15, 495-506.	2.0	6
157	Anaerobic Oxidation of Benzene by the Hyperthermophilic Archaeon Ferroglobus placidus. Applied and Environmental Microbiology, 2011, 77, 5926-5933.	3.1	100
158	Modeling and sensitivity analysis of electron capacitance for Geobacter in sedimentary environments. Journal of Contaminant Hydrology, 2010, 112, 30-44.	3.3	16
159	Interference with histidyl-tRNA synthetase by a CRISPR spacer sequence as a factor in the evolution of Pelobacter carbinolicus. BMC Evolutionary Biology, 2010, 10, 230.	3.2	74
160	Evolution of electron transfer out of the cell: comparative genomics of six Geobacter genomes. BMC Genomics, 2010, 11, 40.	2.8	170
161	Expression of acetate permease-like (aplâ€ƒ) genes in subsurface communities of Geobacter species under fluctuating acetate concentrations. FEMS Microbiology Ecology, 2010, 73, no-no.	2.7	20
162	Production of pilus-like filaments in Geobacter sulfurreducens in the absence of the type IV pilin protein PilA. FEMS Microbiology Letters, 2010, 310, 62-68.	1.8	27

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163	Molecular analysis of phosphate limitation in <i>Geobacteraceae</i> during the bioremediation of a uranium-contaminated aquifer. ISME Journal, 2010, 4, 253-266.	9.8	51
164	Microtoming coupled to microarray analysis to evaluate the spatial metabolic status of <i>Geobacter sulfurreducens</i> biofilms. ISME Journal, 2010, 4, 509-519.	9.8	128
165	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
166	De Novo Assembly of the Complete Genome of an Enhanced Electricity-Producing Variant of Geobacter sulfurreducens Using Only Short Reads. PLoS ONE, 2010, 5, e10922.	2.5	29
167	Novel regulatory cascades controlling expression of nitrogen-fixation genes in Geobacter sulfurreducens. Nucleic Acids Research, 2010, 38, 7485-7499.	14.5	34
168	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
169	Genome-wide gene regulation of biosynthesis and energy generation by a novel transcriptional repressor in Geobacter species. Nucleic Acids Research, 2010, 38, 810-821.	14.5	50
170	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
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