

Daniel R Bond

List of Publications by Year in descending order

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72
papers

12,891
citations

81743

39
h-index

95083

68
g-index

81
all docs

81
docs citations

81
times ranked

7190
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity Production by <i>Geobacter sulfurreducens</i> Attached to Electrodes. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1548-1555.	1.4	1,966
2	<i>Shewanella</i> secretes flavins that mediate extracellular electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3968-3973.	3.3	1,629
3	Electrode-Reducing Microorganisms That Harvest Energy from Marine Sediments. <i>Science</i> , 2002, 295, 483-485.	6.0	1,234
4	Graphite electrodes as electron donors for anaerobic respiration. <i>Environmental Microbiology</i> , 2004, 6, 596-604.	1.8	659
5	Harnessing microbially generated power on the seafloor. <i>Nature Biotechnology</i> , 2002, 20, 821-825.	9.4	640
6	Microbial Biofilm Voltammetry: Direct Electrochemical Characterization of Catalytic Electrode-Attached Biofilms. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7329-7337.	1.4	462
7	Microbial Communities Associated with Electrodes Harvesting Electricity from a Variety of Aquatic Sediments. <i>Microbial Ecology</i> , 2004, 48, 178-190.	1.4	440
8	The Mtr Respiratory Pathway Is Essential for Reducing Flavins and Electrodes in <i>Shewanella oneidensis</i> . <i>Journal of Bacteriology</i> , 2010, 192, 467-474.	1.0	410
9	Electron Transfer by <i>Desulfobulbus propionicus</i> to Fe(III) and Graphite Electrodes. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1234-1237.	1.4	334
10	Towards Electrosynthesis in <i>Shewanella</i> : Energetics of Reversing the Mtr Pathway for Reductive Metabolism. <i>PLoS ONE</i> , 2011, 6, e16649.	1.1	308
11	Characterization of Metabolism in the Fe(III)-Reducing Organism <i>Geobacter sulfurreducens</i> by Constraint-Based Modeling. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1558-1568.	1.4	290
12	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
13	Electrochemical Measurement of Electron Transfer Kinetics by <i>Shewanella oneidensis</i> MR-1. <i>Journal of Biological Chemistry</i> , 2009, 284, 28865-28873.	1.6	246
14	Voltammetry and Growth Physiology of <i>Geobacter sulfurreducens</i> Biofilms as a Function of Growth Stage and Imposed Electrode Potential. <i>Electroanalysis</i> , 2010, 22, 865-874.	1.5	229
15	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
16	Identification of an Extracellular Polysaccharide Network Essential for Cytochrome Anchoring and Biofilm Formation in <i>Geobacter sulfurreducens</i> . <i>Journal of Bacteriology</i> , 2011, 193, 1023-1033.	1.0	208
17	Electrochemical characterization of <i>Geobacter sulfurreducens</i> cells immobilized on graphite paper electrodes. <i>Biotechnology and Bioengineering</i> , 2008, 99, 1065-1073.	1.7	205
18	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

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19	On Electron Transport through <i>Geobacter</i> Biofilms. <i>ChemSusChem</i> , 2012, 5, 1099-1105.	3.6	184
20	A transmembrane outer membrane porin-cytochrome protein complex for extracellular electron transfer by <i>Geobacter sulfurreducens</i> . <i>Environmental Microbiology Reports</i> , 2014, 6, 776-785.	1.0	178
21	Linking Spectral and Electrochemical Analysis to Monitor <i>Cytochrome Redox Status</i> in Living <i>Geobacter sulfurreducens</i> Biofilms. <i>ChemPhysChem</i> , 2011, 12, 2235-2241.	1.0	167
22	Reduction of low potential electron acceptors requires the Cbcl inner membrane cytochrome of <i>Geobacter sulfurreducens</i> . <i>Bioelectrochemistry</i> , 2016, 107, 7-13.	2.4	166
23	Effect of Linoleic Acid Concentration on Conjugated Linoleic Acid Production by <i>Butyrivibrio fibrisolvens</i> A38. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5226-5230.	1.4	160
24	Redox potential as a master variable controlling pathways of metal reduction by <i>Geobacter sulfurreducens</i> . <i>ISME Journal</i> , 2017, 11, 741-752.	4.4	145
25	An Inner Membrane Cytochrome Required Only for Reduction of High Redox Potential Extracellular Electron Acceptors. <i>MBio</i> , 2014, 5, e02034.	1.8	141
26	Enabling Unbalanced Fermentations by Using Engineered Electrode-Interfaced Bacteria. <i>MBio</i> , 2010, 1, .	1.8	140
27	Long-Distance Electron Transfer by <i>G. sulfurreducens</i> Biofilms Results in Accumulation of Reduced <i>Cytochrome</i> Type Cytochromes. <i>ChemSusChem</i> , 2012, 5, 1047-1053.	3.6	112
28	Alternative schemes of butyrate production in <i>Butyrivibrio fibrisolvens</i> and their relationship to acetate utilization, lactate production, and phylogeny. <i>Archives of Microbiology</i> , 1999, 171, 324-330.	1.0	108
29	Cultivation of an Obligate Fe(II)-Oxidizing Lithoautotrophic Bacterium Using Electrodes. <i>MBio</i> , 2013, 4, e00420-12.	1.8	104
30	Painting and Printing Living Bacteria: Engineering Nanoporous Biocatalytic Coatings to Preserve Microbial Viability and Intensify Reactivity. <i>Biotechnology Progress</i> , 2007, 23, 2-17.	1.3	95
31	NanoSIMS imaging reveals metabolic stratification within current-producing biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20716-20724.	3.3	83
32	Genetic Characterization of a Single Bifunctional Enzyme for Fumarate Reduction and Succinate Oxidation in <i>Geobacter sulfurreducens</i> and Engineering of Fumarate Reduction in <i>Geobacter metallireducens</i> . <i>Journal of Bacteriology</i> , 2006, 188, 450-455.	1.0	77
33	<i>Geothrix fermentans</i> Secretes Two Different Redox-Active Compounds To Utilize Electron Acceptors across a Wide Range of Redox Potentials. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6987-6995.	1.4	76
34	Enhancement of Survival and Electricity Production in an Engineered Bacterium by Light-Driven Proton Pumping. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4123-4129.	1.4	73
35	Gold line array electrodes increase substrate affinity and current density of electricity-producing <i>G. sulfurreducens</i> biofilms. <i>Energy and Environmental Science</i> , 2010, 3, 1782.	15.6	71
36	Identification of Different Putative Outer Membrane Electron Conduits Necessary for Fe(III) Citrate, Fe(III) Oxide, Mn(IV) Oxide, or Electrode Reduction by <i>Geobacter sulfurreducens</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	69

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37	Identification of Genes Involved in Biofilm Formation and Respiration via Mini- <i>Himar</i> Transposon Mutagenesis of <i>Geobacter sulfurreducens</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4207-4217.	1.0	58
38	Isolation and Genomic Characterization of <i>Desulfuromonas soudanensis</i> WTL TM , a Metal- and Electrode-Respiring Bacterium from Anoxic Deep Subsurface Brine. <i>Frontiers in Microbiology</i> , 2016, 7, 913.	1.5	53
39	Characterization of Citrate Synthase from <i>Geobacter sulfurreducens</i> and Evidence for a Family of Citrate Synthases Similar to Those of Eukaryotes throughout the Geobacteraceae. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3858-3865.	1.4	52
40	Scarless Genome Editing and Stable Inducible Expression Vectors for <i>Geobacter sulfurreducens</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 7178-7186.	1.4	52
41	Cryo-EM structure of an extracellular <i>Geobacter</i> OmcE cytochrome filament reveals tetraheme packing. <i>Nature Microbiology</i> , 2022, 7, 1291-1300.	5.9	47
42	<i>Geobacter sulfurreducens</i> Extracellular Multiheme Cytochrome PgcA Facilitates Respiration to Fe(III) Oxides But Not Electrodes. <i>Frontiers in Microbiology</i> , 2017, 8, 2481.	1.5	43
43	Electrochemical Analysis of <i>Shewanella oneidensis</i> Engineered To Bind Gold Electrodes. <i>ACS Synthetic Biology</i> , 2013, 2, 93-101.	1.9	39
44	Genome Scale Mutational Analysis of <i>Geobacter sulfurreducens</i> Reveals Distinct Molecular Mechanisms for Respiration and Sensing of Poised Electrodes versus Fe(III) Oxides. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	39
45	Abundance of the Multiheme c-Type Cytochrome OmcB Increases in Outer Biofilm Layers of Electrode-Grown <i>Geobacter sulfurreducens</i> . <i>PLoS ONE</i> , 2014, 9, e104336.	1.1	28
46	A Role for Fructose 1,6-Diphosphate in the ATPase-Mediated Energy-Spilling Reaction of <i>Streptococcus bovis</i> . <i>Applied and Environmental Microbiology</i> , 1996, 62, 2095-2099.	1.4	27
47	Structure and mechanism of a Hypr GGDEF enzyme that activates cGAMP signaling to control extracellular metal respiration. <i>ELife</i> , 2019, 8, .	2.8	27
48	Divergent Nrf Family Proteins and MtrCAB Homologs Facilitate Extracellular Electron Transfer in <i>Aeromonas hydrophila</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	25
49	<i>Geobacter sulfurreducens</i> inner membrane cytochrome CbcBA controls electron transfer and growth yield near the energetic limit of respiration. <i>Molecular Microbiology</i> , 2021, 116, 1124-1139.	1.2	24
50	The diversion of lactose carbon through the tagatose pathway reduces the intracellular fructose 1,6-bisphosphate and growth rate of <i>Streptococcus bovis</i> . <i>Applied Microbiology and Biotechnology</i> , 1998, 49, 600-605.	1.7	23
51	Roles of membrane structure and phase transition on the hyperosmotic stress survival of <i>Geobacter sulfurreducens</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2283-2290.	1.4	23
52	A Hybrid Extracellular Electron Transfer Pathway Enhances the Survival of <i>Vibrio natriegens</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	21
53	Relationship between Intracellular Phosphate, Proton Motive Force, and Rate of Nongrowth Energy Dissipation (Energy Spilling) in <i>Streptococcus bovis</i> JB1. <i>Applied and Environmental Microbiology</i> , 1998, 64, 976-981.	1.4	21
54	Mapping the Iron Binding Site(s) on the Small Tetraheme Cytochrome of <i>Shewanella oneidensis</i> MR-1. <i>Biochemistry</i> , 2011, 50, 6217-6224.	1.2	19

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55	Protonmotive force regulates the membrane conductance of <i>Streptococcus bovis</i> in a non-ohmic fashion. <i>Microbiology (United Kingdom)</i> , 2000, 146, 687-694.	0.7	17
56	The fructose diphosphate/phosphate regulation of carbohydrate metabolism in low G+C Gram-positive anaerobes. <i>Research in Microbiology</i> , 1996, 147, 528-535.	1.0	16
57	Electrodes as Electron Acceptors, and the Bacteria Who Love Them. , 2010, , 385-399.		15
58	Preventing Hydrogen Disposal Increases Electrode Utilization Efficiency by <i>Shewanella oneidensis</i> . <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	14
59	Electrolocation? The evidence for redox-mediated taxis in <i>Shewanella oneidensis</i> . <i>Molecular Microbiology</i> , 2020, 115, 1069-1079.	1.2	13
60	Evidence of a Streamlined Extracellular Electron Transfer Pathway from Biofilm Structure, Metabolic Stratification, and Long-Range Electron Transfer Parameters. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0070621.	1.4	13
61	Draft Genome Sequence of the Gram-Positive Thermophilic Iron Reducer <i>Thermincola ferriacetica</i> Strain Z-0001 ^T . <i>Genome Announcements</i> , 2015, 3, .	0.8	12
62	Novel Microbial Groups Drive Productivity in an Archean Iron Formation. <i>Frontiers in Microbiology</i> , 2021, 12, 627595.	1.5	12
63	Physiological characterization of <i>Streptococcus bovis</i> mutants that can resist 2-deoxyglucose-induced lysis. <i>Microbiology (United Kingdom)</i> , 1999, 145, 2977-2985.	0.7	11
64	Survival of the first rather than the fittest in a <i>Shewanella</i> electrode biofilm. <i>Communications Biology</i> , 2021, 4, 536.	2.0	10
65	Energetic and Molecular Constraints on the Mechanism of Environmental Fe(III) Reduction by <i>Geobacter</i> . , 2013, , 29-48.		8
66	Potential Role of a Novel Psychrotolerant Member of the Family <i>Geobacteraceae</i> , <i>Geopsychrobacter electrophilus</i> gen. nov., sp. nov., in Electricity Production by a Marine Sediment Fuel Cell. <i>Applied and Environmental Microbiology</i> , 2009, 75, 885-885.	1.4	6
67	Genomes of <i>Geobacter ferrihydriticus</i> Z-0531 ^T and <i>Geobacter subterraneus</i> Red1 ^T , Two Haloalkaliphilic Metal-Reducing Deltaproteobacteria. <i>Genome Announcements</i> , 2015, 3, .	0.8	6
68	Engineering Nanoporous Bioactive Smart Coatings Containing Microorganisms: Fundamentals and Emerging Applications. <i>ACS Symposium Series</i> , 2009, , 52-94.	0.5	3
69	Complete Genome of <i>Geobacter pickeringii</i> G13 ^T , a Metal-Reducing Isolate from Sedimentary Kaolin Deposits. <i>Genome Announcements</i> , 2015, 3, .	0.8	3
70	The Signaling Pathway That cGAMP Riboswitches Found: Analysis and Application of Riboswitches to Study cGAMP Signaling in <i>Geobacter sulfurreducens</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 1183.	1.8	2
71	Coating of fuel cells using carbohydrate solutions. , 2006, , .		0
72	Desiccation of <i>Geobacter Sulfurreducens</i> : Membrane Response to Osmotic Stress. , 2008, , .		0