

John D Coates

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

6,752
citations

37
h-index

82
g-index

141
ext. papers

8,102
ext. citations

8
avg, IF

5.77
L-index

#	Paper	IF	Citations
107	Isolation of a Dissimilatory Iodate-Reducing From a Freshwater Creek in the San Francisco Bay Area.. <i>Frontiers in Microbiology</i> , 2021 , 12, 804181	5.7	0
106	The diversity and evolution of microbial dissimilatory phosphite oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
105	Genetic and phylogenetic analysis of dissimilatory iodate-reducing bacteria identifies potential niches across the world's oceans. <i>ISME Journal</i> , 2021 ,	11.9	2
104	An uncharacterized clade in the DMSO reductase family of molybdenum oxidoreductases is a new type of chlorate reductase. <i>Environmental Microbiology Reports</i> , 2020 , 12, 534-539	3.7	1
103	Identification of a parasitic symbiosis between respiratory metabolisms in the biogeochemical chlorine cycle. <i>ISME Journal</i> , 2020 , 14, 1194-1206	11.9	5
102	Anion transport as a target of adaption to perchlorate in sulfate-reducing communities. <i>ISME Journal</i> , 2020 , 14, 450-462	11.9	4
101	Tungstate Control of Microbial Sulfidogenesis and Souring of the Engineered Environment. <i>Environmental Science & Technology</i> , 2020 , 54, 16119-16127	10.3	2
100	Biofilm Feedbacks Alter Hydrological Characteristics of Fractured Rock Impacting Sulfidogenesis and Treatment. <i>Energy & Fuels</i> , 2019 , 33, 10476-10486	4.1	1
99	Resistance and Resilience of Sulfidogenic Communities in the Face of the Specific Inhibitor Perchlorate. <i>Frontiers in Microbiology</i> , 2019 , 10, 654	5.7	3
98	Adaptation of <i>Desulfovibrio alaskensis</i> G20 to perchlorate, a specific inhibitor of sulfate reduction. <i>Environmental Microbiology</i> , 2019 , 21, 1395-1406	5.2	8
97	Perchlorate and Its Application in the Oil and Gas Industry 2019 , 109-128		1
96	Specific inhibitors of respiratory sulfate reduction: towards a mechanistic understanding. <i>Microbiology (United Kingdom)</i> , 2019 , 165, 254-269	2.9	14
95	Genome-resolved metagenomics identifies genetic mobility, metabolic interactions, and unexpected diversity in perchlorate-reducing communities. <i>ISME Journal</i> , 2018 , 12, 1568-1581	11.9	24
94	Comprehensive Analysis of Changes in Crude Oil Chemical Composition during Biosouring and Treatments. <i>Environmental Science & Technology</i> , 2018 , 52, 1290-1300	10.3	10
93	Dissimilatory Sulfate Reduction Under High Pressure by G20. <i>Frontiers in Microbiology</i> , 2018 , 9, 1465	5.7	7
92	Functional Redundancy in Perchlorate and Nitrate Electron Transport Chains and Rewiring Respiratory Pathways to Alter Terminal Electron Acceptor Preference. <i>Frontiers in Microbiology</i> , 2018 , 9, 376	5.7	6
91	Metagenomics-guided analysis of microbial chemolithoautotrophic phosphite oxidation yields evidence of a seventh natural CO fixation pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E92-E101	11.5	61

90	Microbial Sulfate Reduction and Perchlorate Inhibition in a Novel Mesoscale Tank Experiment. <i>Energy & Fuels</i> , 2018 , 32, 12049-12065	4.1	4
89	Mitigating Sulfidogenesis With Simultaneous Perchlorate and Nitrate Treatments. <i>Frontiers in Microbiology</i> , 2018 , 9, 2305	5.7	5
88	Attenuating Sulfidogenesis in a Soured Continuous Flow Column System With Perchlorate Treatment. <i>Frontiers in Microbiology</i> , 2018 , 9, 1575	5.7	10
87	Mechanism of HS Oxidation by the Dissimilatory Perchlorate-Reducing Microorganism PS. <i>MBio</i> , 2017 , 8,	7.8	23
86	High-Throughput Screening To Identify Potent and Specific Inhibitors of Microbial Sulfate Reduction. <i>Environmental Science & Technology</i> , 2017 , 51, 7278-7285	10.3	14
85	Biotechnological Applications of Microbial (Per)chlorate Reduction. <i>Microorganisms</i> , 2017 , 5,	4.9	16
84	Microbial metal resistance and metabolism across dynamic landscapes: high-throughput environmental microbiology. <i>F1000Research</i> , 2017 , 6, 1026	3.6	6
83	Reactive Transport Model of Sulfur Cycling as Impacted by Perchlorate and Nitrate Treatments. <i>Environmental Science & Technology</i> , 2016 , 50, 7010-8	10.3	25
82	Enrichment and Isolation of Chloroxyanion-Respiring Hydrocarbon Oxidizers. <i>Springer Protocols</i> , 2016 , 165-176	0.3	1
81	Perchlorate Reductase Is Distinguished by Active Site Aromatic Gate Residues. <i>Journal of Biological Chemistry</i> , 2016 , 291, 9190-202	5.4	46
80	Genetic dissection of chlorate respiration in <i>Pseudomonas stutzeri</i> PDA reveals syntrophic (per)chlorate reduction. <i>Environmental Microbiology</i> , 2016 , 18, 3342-3354	5.2	14
79	Characterization of an anaerobic marine microbial community exposed to combined fluxes of perchlorate and salinity. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 9719-9732	5.7	18
78	(Per)chlorate in Biology on Earth and Beyond. <i>Annual Review of Microbiology</i> , 2016 , 70, 435-57	17.5	35
77	Monofluorophosphate is a selective inhibitor of respiratory sulfate-reducing microorganisms. <i>Environmental Science & Technology</i> , 2015 , 49, 3727-36	10.3	36
76	Synthetic and Evolutionary Construction of a Chlorate-Reducing <i>Shewanella oneidensis</i> MR-1. <i>MBio</i> , 2015 , 6, e00282-15	7.8	9
75	Phenotypic and genotypic description of <i>Sedimenticola selenatireducens</i> strain CUZ, a marine (per)chlorate-respiring gammaproteobacterium, and its close relative the chlorate-respiring <i>Sedimenticola</i> strain NSS. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 2717-26	4.8	21
74	Novel mechanism for scavenging of hypochlorite involving a periplasmic methionine-rich Peptide and methionine sulfoxide reductase. <i>MBio</i> , 2015 , 6, e00233-15	7.8	34
73	Widespread occurrence of (per)chlorate in the Solar System. <i>Earth and Planetary Science Letters</i> , 2015 , 430, 470-476	5.3	34

- 72 Mechanisms of direct inhibition of the respiratory sulfate-reduction pathway by (per)chlorate and nitrate. *ISME Journal*, **2015**, 9, 1295-305 11.9 46
- 71 Acanthopleuribacterales **2015**, 1-1
- 70 Acidobacteriia **2015**, 1-1
- 69 Acidobacteriaceae fam. nov. **2015**, 1-1
- 68 Acanthopleuribacteraceae **2015**, 1-1
- 67 Holophagaceae **2015**, 1-1
- 66 Acidobacterium **2015**, 1-1 1
- 65 Edaphobacter **2015**, 1-3
- 64 Terriglobus **2015**, 1-2
- 63 Acanthopleuribacter **2015**, 1-2
- 62 Holophaga **2015**, 1-2
- 61 Acidobacteriales **2015**, 1-1
- 60 Holophagales **2015**, 1-1
- 59 Acidobacteria phyl. nov. **2015**, 1-5 1
- 58 Geobacter **2015**, 1-6
- 57 Bacteria that Respire Oxyanions of Chlorine **2015**, 1-5
- 56 Holophagae **2015**, 1-1
- 55 Geothrix **2015**, 1-2

54	The Perchlorate Reduction Genomic Island: Mechanisms and Pathways of Evolution by Horizontal Gene Transfer. <i>BMC Genomics</i> , 2015 , 16, 862	4.5	20
53	(Per)chlorate-reducing bacteria can utilize aerobic and anaerobic pathways of aromatic degradation with (per)chlorate as an electron acceptor. <i>MBio</i> , 2015 , 6,	7.8	17
52	Chlorate reduction in <i>Shewanella</i> algae ACDC is a recently acquired metabolism characterized by gene loss, suboptimal regulation and oxidative stress. <i>Molecular Microbiology</i> , 2014 , 94, 107-25	4.1	23
51	Accentuate the Positive: Dissimilatory Iron Reduction by Gram-Positive Bacteria 2014 , 173-P1		3
50	Isotopic insights into microbial sulfur cycling in oil reservoirs. <i>Frontiers in Microbiology</i> , 2014 , 5, 480	5.7	20
49	Methane oxidation linked to chlorite dismutation. <i>Frontiers in Microbiology</i> , 2014 , 5, 275	5.7	12
48	Inhibition of microbial sulfate reduction in a flow-through column system by (per)chlorate treatment. <i>Frontiers in Microbiology</i> , 2014 , 5, 315	5.7	57
47	Control of sulfidogenesis through bio-oxidation of H ₂ S coupled to (per)chlorate reduction. <i>Environmental Microbiology Reports</i> , 2014 , 6, 558-64	3.7	34
46	Transposon and deletion mutagenesis of genes involved in perchlorate reduction in <i>Azospira suillum</i> PS. <i>MBio</i> , 2013 , 5, e00769-13	7.8	22
45	Surfaceomics and surface-enhanced Raman spectroscopy of environmental microbes: matching cofactors with redox-active surface proteins. <i>Proteomics</i> , 2013 , 13, 2761-5	4.8	3
44	Physiological and genetic description of dissimilatory perchlorate reduction by the novel marine bacterium <i>Arcobacter</i> sp. strain CAB. <i>MBio</i> , 2013 , 4, e00217-13	7.8	29
43	Fe(II) oxidation is an innate capability of nitrate-reducing bacteria that involves abiotic and biotic reactions. <i>Journal of Bacteriology</i> , 2013 , 195, 3260-8	3.5	107
42	Structure and evolution of chlorate reduction composite transposons. <i>MBio</i> , 2013 , 4,	7.8	49
41	Perchlorate on Mars: a chemical hazard and a resource for humans. <i>International Journal of Astrobiology</i> , 2013 , 12, 321-325	1.4	62
40	Bioelectrical redox cycling of anthraquinone-2,6-disulfonate coupled to perchlorate reduction. <i>Energy and Environmental Science</i> , 2012 , 5, 7970	35.4	15
39	Perchlorate and chlorate biogeochemistry in ice-covered lakes of the McMurdo Dry Valleys, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 98, 19-30	5.5	27
38	Toward a mechanistic understanding of anaerobic nitrate-dependent iron oxidation: balancing electron uptake and detoxification. <i>Frontiers in Microbiology</i> , 2012 , 3, 57	5.7	69
37	Complete genome sequence of the anaerobic perchlorate-reducing bacterium <i>Azospira suillum</i> strain PS. <i>Journal of Bacteriology</i> , 2012 , 194, 2767-8	3.5	35

36	Surface multiheme c-type cytochromes from <i>Thermincola potens</i> and implications for respiratory metal reduction by Gram-positive bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1702-7	11.5	129
35	A bioassay for the detection of perchlorate in the ppb range. <i>Environmental Science & Technology</i> , 2011 , 45, 2958-64	10.3	14
34	Identification of a perchlorate reduction genomic island with novel regulatory and metabolic genes. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 7401-4	4.8	38
33	<i>Magnetospirillum bellicus</i> sp. nov., a novel dissimilatory perchlorate-reducing alphaproteobacterium isolated from a bioelectrical reactor. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 4730-7	4.8	46
32	Description of the novel perchlorate-reducing bacteria <i>Dechlorobacter hydrogenophilus</i> gen. nov., sp. nov. and <i>Propionivibrio militaris</i> , sp. nov. <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 335-43	5.7	44
31	Physiological and taxonomic description of the novel autotrophic, metal oxidizing bacterium, <i>Pseudogulbenkiania</i> sp. strain 2002. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 555-65	5.7	67
30	Behavioral response of dissimilatory perchlorate-reducing bacteria to different electron acceptors. <i>Applied Microbiology and Biotechnology</i> , 2009 , 84, 955-63	5.7	20
29	A novel ecological role of the Firmicutes identified in thermophilic microbial fuel cells. <i>ISME Journal</i> , 2008 , 2, 1146-56	11.9	266
28	Review: Direct and indirect electrical stimulation of microbial metabolism. <i>Environmental Science & Technology</i> , 2008 , 42, 3921-31	10.3	272
27	Electrochemical stimulation of microbial perchlorate reduction. <i>Environmental Science & Technology</i> , 2007 , 41, 1740-6	10.3	190
26	The Biochemistry and Genetics of Microbial Perchlorate Reduction 2006 , 297-310		4
25	The Microbiology of Perchlorate Reduction and its Bioremediative Application 2006 , 279-295		15
24	Microorganisms pumping iron: anaerobic microbial iron oxidation and reduction. <i>Nature Reviews Microbiology</i> , 2006 , 4, 752-64	22.2	1079
23	Biological control of hog waste odor through stimulated microbial Fe(III) reduction. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 4728-35	4.8	44
22	Identification, characterization, and classification of genes encoding perchlorate reductase. <i>Journal of Bacteriology</i> , 2005 , 187, 5090-6	3.5	117
21	Anaerobic degradation of benzene, toluene, ethylbenzene, and xylene compounds by <i>Dechloromonas</i> strain RCB. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8649-55	4.8	160
20	Metabolic primers for detection of (Per)chlorate-reducing bacteria in the environment and phylogenetic analysis of cld gene sequences. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 5651-8	4.8	73
19	Microbial perchlorate reduction: rocket-fueled metabolism. <i>Nature Reviews Microbiology</i> , 2004 , 2, 569-80	22.2	397

18	Sequencing and transcriptional analysis of the chlorite dismutase gene of <i>Dechloromonas agitata</i> and its use as a metabolic probe. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4820-6	4.8	71
17	Universal immunoprobe for (per)chlorate-reducing bacteria. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 3108-13	4.8	54
16	Environmental factors that control microbial perchlorate reduction. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4425-30	4.8	140
15	Diversity and ubiquity of bacteria capable of utilizing humic substances as electron donors for anaerobic respiration. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 2445-52	4.8	162
14	Anaerobic benzene biodegradation--a new era. <i>Research in Microbiology</i> , 2002 , 153, 621-8	4	113
13	Anaerobic benzene oxidation coupled to nitrate reduction in pure culture by two strains of <i>Dechloromonas</i> . <i>Nature</i> , 2001 , 411, 1039-43	50.4	422
12	Biogenic magnetite formation through anaerobic biooxidation of Fe(II). <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2844-8	4.8	198
11	Isolation and Characterization of Two Novel (Per)Chlorate-Reducing Bacteria from Swine Waste Lagoons 2000 , 271-283		32
10	Ubiquity and diversity of dissimilatory (per)chlorate-reducing bacteria. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 5234-41	4.8	386
9	Hydrocarbon Bioremediative Potential of (Per)Chlorate-Reducing Bacteria. <i>Bioremediation Journal</i> , 1999 , 3, 323-334	2.3	40
8	Humics as an electron donor for anaerobic respiration. <i>Environmental Microbiology</i> , 1999 , 1, 89-98	5.2	221
7	Reduction of (per)chlorate by a novel organism isolated from paper mill waste. <i>Environmental Microbiology</i> , 1999 , 1, 319-29	5.2	197
6	Localized Sulfate-Reducing Zones in a Coastal Plain Aquifer. <i>Ground Water</i> , 1999 , 37, 505-516	2.4	28
5	Anoxic bioremediation of hydrocarbons. <i>Nature</i> , 1998 , 396, 730	50.4	52
4	Dissimilatory arsenate and sulfate reduction in <i>Desulfotomaculum auripigmentum</i> sp. nov. <i>Archives of Microbiology</i> , 1997 , 168, 380-8	3	230
3	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	10.3	134
2	<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	3	140
1	Anaerobic Respiratory Iron(II) Oxidation 157-171		1

