

James P Shapleigh

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65
papers

2,032
citations

27
h-index

44
g-index

68
ext. papers

2,363
ext. citations

6.2
avg, IF

4.79
L-index

#	Paper	IF	Citations
65	Insight into the active-site structure and function of cytochrome oxidase by analysis of site-directed mutants of bacterial cytochrome aa3 and cytochrome bo. <i>Journal of Bioenergetics and Biomembranes</i> , 1993 , 25, 121-36	3.7	256
64	A novel cytochrome c oxidase from <i>Rhodobacter sphaeroides</i> that lacks CuA. <i>Biochemistry</i> , 1994 , 33, 3113-9	3.2	137
63	The home stretch, a first analysis of the nearly completed genome of <i>Rhodobacter sphaeroides</i> 2.4.1. <i>Photosynthesis Research</i> , 2001 , 70, 19-41	3.7	115
62	Spectroscopic, kinetic, and electrochemical characterization of heterologously expressed wild-type and mutant forms of copper-containing nitrite reductase from <i>Rhodobacter sphaeroides</i> 2.4.3. <i>Biochemistry</i> , 1998 , 37, 6086-94	3.2	95
61	Transcription and activities of NO _x reductases in <i>Agrobacterium tumefaciens</i> : the influence of nitrate, nitrite and oxygen availability. <i>Environmental Microbiology</i> , 2008 , 10, 3070-81	5.2	76
60	Cloning, sequencing and deletion from the chromosome of the gene encoding subunit I of the aa3-type cytochrome c oxidase of <i>Rhodobacter sphaeroides</i> . <i>Molecular Microbiology</i> , 1992 , 6, 635-42	4.1	71
59	Requirement of nitric oxide for induction of genes whose products are involved in nitric oxide metabolism in <i>Rhodobacter sphaeroides</i> 2.4.3. <i>Journal of Biological Chemistry</i> , 1996 , 271, 24382-8	5.4	69
58	Electronic structural information from Q-band ENDOR on the type 1 and type 2 copper liganding environment in wild-type and mutant forms of copper-containing nitrite reductase. <i>Biochemistry</i> , 1998 , 37, 6095-105	3.2	59
57	Selenite-reducing capacity of the copper-containing nitrite reductase of <i>Rhizobium sullae</i> . <i>FEMS Microbiology Letters</i> , 2007 , 269, 124-30	2.9	54
56	The Denitrifying Prokaryotes 2006 , 769-792		53
55	Spectroscopic studies of the Met182Thr mutant of nitrite reductase: role of the axial ligand in the geometric and electronic structure of blue and green copper sites. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14784-92	16.4	49
54	Involvement of the PrrB/PrrA two-component system in nitrite respiration in <i>Rhodobacter sphaeroides</i> 2.4.3: evidence for transcriptional regulation. <i>Journal of Bacteriology</i> , 2002 , 184, 3521-9	3.5	44
53	A pH-dependent polarity change at the binuclear center of reduced cytochrome c oxidase detected by FTIR difference spectroscopy of the CO adduct. <i>Biochemistry</i> , 1996 , 35, 9446-50	3.2	43
52	Modularity of nitrogen-oxide reducing soil bacteria: linking phenotype to genotype. <i>Environmental Microbiology</i> , 2017 , 19, 2507-2519	5.2	42
51	EPR-ENDOR of the Cu(I)NO complex of nitrite reductase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13102-11	16.4	42
50	Salinity-Aided Selection of Progressive Onset Denitrifiers as a Means of Providing Nitrite for Anammox. <i>Environmental Science & Technology</i> , 2018 , 52, 10665-10672	10.3	41
49	Denitrification genes regulate <i>Brucella</i> virulence in mice. <i>Journal of Bacteriology</i> , 2004 , 186, 6025-31	3.5	41

48	The Role of Denitrification in Stormwater Detention Basin Treatment of Nitrogen. <i>Environmental Science & Technology</i> , 2017 , 51, 7928-7935	10.3	39
47	Assessing the impact of denitrifier-produced nitric oxide on other bacteria. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 2200-5	4.8	37
46	Characterization of a member of the NnrR regulon in <i>Rhodobacter sphaeroides</i> 2.4.3 encoding a haem-copper protein. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 825-833	2.9	37
45	Expression of nitrite and nitric oxide reductases in free-living and plant-associated <i>Agrobacterium tumefaciens</i> C58 cells. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 4427-36	4.8	36
44	Metagenomics reveals microbial community differences lead to differential nitrate production in anammox reactors with differing nitrogen loading rates. <i>Water Research</i> , 2020 , 169, 115279	12.5	36
43	A novel protein protects bacterial iron-dependent metabolism from nitric oxide. <i>Journal of Bacteriology</i> , 2013 , 195, 4702-8	3.5	35
42	Denitrifying Prokaryotes 2013 , 405-425		35
41	Plant-Microbe Interactions Drive Denitrification Rates, Dissolved Nitrogen Removal, and the Abundance of Denitrification Genes in Stormwater Control Measures. <i>Environmental Science & Technology</i> , 2018 , 52, 9320-9329	10.3	34
40	Taxis response of various denitrifying bacteria to nitrate and nitrite. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 2140-7	4.8	32
39	Characterization of nirV and a gene encoding a novel pseudoazurin in <i>Rhodobacter sphaeroides</i> 2.4.3. <i>Microbiology (United Kingdom)</i> , 2001 , 147, 2505-2515	2.9	28
38	Metagenomic analysis reveals distinct patterns of denitrification gene abundance across soil moisture, nitrate gradients. <i>Environmental Microbiology</i> , 2019 , 21, 1255-1266	5.2	26
37	Regulation and function of cytochrome cUn <i>Rhodobacter sphaeroides</i> 2.4.3. <i>Journal of Bacteriology</i> , 2005 , 187, 4077-85	3.5	26
36	Metatranscriptomic analyses of plankton communities inhabiting surface and subpycnocline waters of the Chesapeake Bay during oxic-anoxic-oxic transitions. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 328-38	4.8	25
35	<i>Agrobacterium tumefaciens</i> C58 uses ActR and FnrN to control nirK and nor expression. <i>Journal of Bacteriology</i> , 2008 , 190, 78-86	3.5	25
34	Use of a green fluorescent protein-based reporter fusion for detection of nitric oxide produced by denitrifiers. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 3938-44	4.8	23
33	Physiological roles for two periplasmic nitrate reductases in <i>Rhodobacter sphaeroides</i> 2.4.3 (ATCC 17025). <i>Journal of Bacteriology</i> , 2011 , 193, 6483-9	3.5	22
32	Reduction of nitrate to nitrite by microbes under oxic conditions. <i>Soil Biology and Biochemistry</i> , 2016 , 100, 1-8	7.5	22
31	Oxygen control of nitrogen oxide respiration, focusing on β proteobacteria. <i>Biochemical Society Transactions</i> , 2011 , 39, 179-83	5.1	21

30	ENDOR of NO-ligated cytochrome cU <i>Journal of the American Chemical Society</i> , 2006 , 128, 5021-32	16.4	18
29	Identification, functional studies, and genomic comparisons of new members of the NnrR regulon in <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2010 , 192, 903-11	3.5	17
28	ENDOR investigation of the liganding environment of mixed-spin ferric cytochrome cU <i>Journal of the American Chemical Society</i> , 2005 , 127, 9485-94	16.4	17
27	Development, assessment and evaluation of a biopile for hydrocarbons soil remediation. <i>International Biodeterioration and Biodegradation</i> , 2015 , 98, 66-72	4.8	14
26	Site-directed mutagenesis of NnrR: a transcriptional regulator of nitrite and nitric oxide reductase in <i>Rhodobacter sphaeroides</i> . <i>FEMS Microbiology Letters</i> , 2003 , 229, 173-8	2.9	14
25	Multi-omics reveal various potential antimonate reductases from phylogenetically diverse microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 9119-9129	5.7	13
24	Metagenomic Evidence for a Species Capable of Bioremediation of Diverse Heavy Metals. <i>Frontiers in Microbiology</i> , 2018 , 9, 3297	5.7	11
23	Application of acidic conditions and inert-gas sparging to achieve high-efficiency nitrous oxide recovery during nitrite denitrification. <i>Water Research</i> , 2020 , 182, 116001	12.5	9
22	Using metagenomics to reveal landscape scale patterns of denitrifiers in a montane forest ecosystem. <i>Soil Biology and Biochemistry</i> , 2019 , 138, 107585	7.5	8
21	Role of norEF in denitrification, elucidated by physiological experiments with <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2014 , 196, 2190-200	3.5	7
20	Electron transfer to nitrite reductase of <i>Rhodobacter sphaeroides</i> 2.4.3: examination of cytochromes c2 and cY. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 1479-1488	2.9	7
19	Metagenomics revealed the phase-related characteristics during rapid development of halotolerant aerobic granular sludge. <i>Environment International</i> , 2020 , 137, 105548	12.9	6
18	Mechanisms of oxygen inhibition of nirK expression in <i>Rhodobacter sphaeroides</i> . <i>Microbiology (United Kingdom)</i> , 2010 , 156, 3158-3165	2.9	6
17	Electrocatalytic reduction of S-nitrosoglutathione at electrodes modified with an electropolymerized film of a pyrrole-derived viologen system and their application to cellular S-nitrosoglutathione determinations. <i>Analytical Biochemistry</i> , 1998 , 263, 102-12	3.1	6
16	Study of Specific Binding of Maltose Binding Protein to Pyrrole-Derived Bipyridinium Film by Quartz Crystal Microbalance. <i>Langmuir</i> , 2002 , 18, 4892-4897	4	6
15	Respiration-linked proton flux in <i>Wolinella succinogenes</i> during reduction of N-oxides. <i>Archives of Biochemistry and Biophysics</i> , 1986 , 244, 713-8	4.1	6
14	Dissimilatory and Assimilatory Nitrate Reduction in the Purple Photosynthetic Bacteria. <i>Advances in Photosynthesis and Respiration</i> , 2009 , 623-642	1.7	6
13	FT-IR analysis of membranes of <i>Rhodobacter sphaeroides</i> 2.4.3 grown under microaerobic and denitrifying conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998 , 1409, 99-105	4.6	5

12	Competition for electrons favours N O reduction in denitrifying Bradyrhizobium isolates. <i>Environmental Microbiology</i> , 2021 , 23, 2244-2259	5.2	5
11	Bacteriophage-mediated extracellular DNA release is important for the structural stability of aerobic granular sludge. <i>Science of the Total Environment</i> , 2020 , 726, 138392	10.2	4
10	Deletion of the gene encoding cytochrome b562 from <i>Rhodobacter sphaeroides</i> . <i>FEMS Microbiology Letters</i> , 1994 , 120, 105-110	2.9	4
9	Linking meta-omics to the kinetics of denitrification intermediates reveals pH-dependent causes of NO emissions and nitrite accumulation in soil. <i>ISME Journal</i> , 2021 ,	11.9	3
8	Community Organization and Metagenomics of Bacterial Assemblages Across Local Scale pH Gradients in Northern Forest Soils. <i>Microbial Ecology</i> , 2021 , 81, 758-769	4.4	3
7	Soil Organic Matter, Soil Structure, and Bacterial Community Structure in a Post-Agricultural Landscape. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	3
6	Phenolic acid-degrading Paraburkholderia prime decomposition in forest soil		2
5	Phenolic acid-degrading Paraburkholderia prime decomposition in forest soil. <i>ISME Communications</i> , 2021 , 1,		2
4	Long-term effects of acetylene on denitrifying N ₂ O production: Biomass performance and microbial community. <i>Journal of Water Process Engineering</i> , 2021 , 42, 102137	6.7	2
3	The anammox coupled partial-denitrification process in an integrated granular sludge and fixed-biofilm reactor developed for mainstream wastewater treatment: Performance and community structure.. <i>Water Research</i> , 2021 , 210, 117964	12.5	1
2	Performance characteristics and community analysis of a single-stage partial nitrification, anammox and denitrification (SPANADA) integrated process for treating low C/N ratio wastewater. <i>Chemical Engineering Journal</i> , 2022 , 433, 134452	14.7	0
1	Metagenomics and metatranscriptomics uncover the microbial community associated with high S production in a denitrifying desulfurization granular sludge reactor. <i>Water Research</i> , 2021 , 203, 117505	12.5	0