

James P Shapleigh

List of Publications by Year in descending order

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64
papers

2,642
citations

159358

30
h-index

205818

48
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68
all docs

68
docs citations

68
times ranked

2311
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into the active-site structure and function of cytochrome oxidase by analysis of site-directed mutants of bacterial cytochromeaa 3 and cytochromebo. Journal of Bioenergetics and Biomembranes, 1993, 25, 121-136.	1.0	266
2	A Novel Cytochrome c Oxidase from Rhodobacter sphaeroides That Lacks CuA. Biochemistry, 1994, 33, 3113-3119.	1.2	147
3	The home stretch, a first analysis of the nearly completed genome of Rhodobacter sphaeroides 2.4.1. Photosynthesis Research, 2001, 70, 19-41.	1.6	129
4	Spectroscopic, Kinetic, and Electrochemical Characterization of Heterologously Expressed Wild-Type and Mutant Forms of Copper-Containing Nitrite Reductase fromRhodobacter sphaeroides2.4.3. Biochemistry, 1998, 37, 6086-6094.	1.2	107
5	Transcription and activities of NO _x reductases in <i>Agrobacterium tumefaciens</i> : the influence of nitrate, nitrite and oxygen availability. Environmental Microbiology, 2008, 10, 3070-3081.	1.8	95
6	Cloning, sequencing and deletion from the chromosome of the gene encoding subunit I of the aa3-type cytochrome c oxidase of Rhodobacter sphaeroides. Molecular Microbiology, 1992, 6, 635-642.	1.2	78
7	Requirement of Nitric Oxide for Induction of Genes Whose Products Are Involved in Nitric Oxide Metabolism in Rhodobacter sphaeroides 2.4.3. Journal of Biological Chemistry, 1996, 271, 24382-24388.	1.6	78
8	The Denitrifying Prokaryotes. , 2006, , 769-792.		69
9	Modularity of nitrogenoxide reducing soil bacteria: linking phenotype to genotype. Environmental Microbiology, 2017, 19, 2507-2519.	1.8	69
10	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. Biochemistry, 1998, 37, 6095-6105.	1.2	66
11	Selenite-reducing capacity of the copper-containing nitrite reductase ofRhizobium sulae. FEMS Microbiology Letters, 2007, 269, 124-130.	0.7	65
12	Salinity-Aided Selection of Progressive Onset Denitrifiers as a Means of Providing Nitrite for Anammox. Environmental Science & Technology, 2018, 52, 10665-10672.	4.6	64
13	Metagenomics reveals microbial community differences lead to differential nitrate production in anammox reactors with differing nitrogen loading rates. Water Research, 2020, 169, 115279.	5.3	62
14	Plant-Microbe Interactions Drive Denitrification Rates, Dissolved Nitrogen Removal, and the Abundance of Denitrification Genes in Stormwater Control Measures. Environmental Science & Technology, 2018, 52, 9320-9329.	4.6	57
15	Spectroscopic Studies of the Met182Thr Mutant of Nitrite Reductase: A Role of the Axial Ligand in the Geometric and Electronic Structure of Blue and Green Copper Sites. Journal of the American Chemical Society, 2003, 125, 14784-14792.	6.6	55
16	Denitrifying Prokaryotes. , 2013, , 405-425.		54
17	The Role of Denitrification in Stormwater Detention Basin Treatment of Nitrogen. Environmental Science & Technology, 2017, 51, 7928-7935.	4.6	52
18	The anammox coupled partial-denitrification process in an integrated granular sludge and fixed-biofilm reactor developed for mainstream wastewater treatment: Performance and community structure. Water Research, 2022, 210, 117964.	5.3	52

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19	Metagenomic analysis reveals distinct patterns of denitrification gene abundance across soil moisture, nitrate gradients. <i>Environmental Microbiology</i> , 2019, 21, 1255-1266.	1.8	49
20	EPR ENDOR of the Cu(I)NO Complex of Nitrite Reductase. <i>Journal of the American Chemical Society</i> , 2006, 128, 13102-13111.	6.6	48
21	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, 9446-9450.	1.2	47
22	Metatranscriptomic Analyses of Plankton Communities Inhabiting Surface and Subpynocline Waters of the Chesapeake Bay during Oxidic-Anoxic-Oxidic Transitions. <i>Applied and Environmental Microbiology</i> , 2014, 80, 328-338.	1.4	47
23	A Novel Protein Protects Bacterial Iron-Dependent Metabolism from Nitric Oxide. <i>Journal of Bacteriology</i> , 2013, 195, 4702-4708.	1.0	46
24	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, 3521-3529.	1.0	45
25	Denitrification Genes Regulate <i>Brucella</i> Virulence in Mice. <i>Journal of Bacteriology</i> , 2004, 186, 6025-6031.	1.0	44
26	Assessing the Impact of Denitrifier-Produced Nitric Oxide on Other Bacteria. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2200-2205.	1.4	40
27	Linking meta-omics to the kinetics of denitrification intermediates reveals pH-dependent causes of N ₂ O emissions and nitrite accumulation in soil. <i>ISME Journal</i> , 2022, 16, 26-37.	4.4	40
28	Reduction of nitrate to nitrite by microbes under oxic conditions. <i>Soil Biology and Biochemistry</i> , 2016, 100, 1-8.	4.2	39
29	Characterization of a member of the NnrR regulon in <i>Rhodobacter sphaeroides</i> 2.4.3 encoding a haem-copper protein. The GenBank accession number for nnrS is U62403. <i>Microbiology (United Kingdom)</i> , 2001, 147, 2505-2515.	0.7	38
30	Taxis Response of Various Denitrifying Bacteria to Nitrate and Nitrite. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2140-2147.	1.4	38
31	Characterization of nirV and a gene encoding a novel pseudoazurin in <i>Rhodobacter sphaeroides</i> 2.4.3. The GenBank accession number for the sequence determined in this work is AF339883. <i>Microbiology (United Kingdom)</i> , 2001, 147, 2505-2515.	0.7	38
32	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, 4427-4436.	1.4	36
33	Physiological Roles for Two Periplasmic Nitrate Reductases in <i>Rhodobacter sphaeroides</i> 2.4.3 (ATCC 29418). <i>Journal of Bacteriology</i> , 2001, 183, 1033-1041.	1.0	30
34	Oxygen control of nitrogen oxide respiration, focusing on α -proteobacteria. <i>Biochemical Society Transactions</i> , 2011, 39, 179-183.	1.6	28
35	Regulation and Function of Cytochrome c ₅₅₂ in <i>Rhodobacter sphaeroides</i> 2.4.3. <i>Journal of Bacteriology</i> , 2005, 187, 4077-4085.	1.0	27
36	<i>Agrobacterium tumefaciens</i> C58 Uses ActR and FnrN To Control nirK and nor Expression. <i>Journal of Bacteriology</i> , 2008, 190, 78-86.	1.0	25

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37	Competition for electrons favours N_2O reduction in denitrifying <i>Bradyrhizobium</i> isolates. <i>Environmental Microbiology</i> , 2021, 23, 2244-2259.	1.8	24
38	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, 3938-3944.	1.4	23
39	Metagenomics revealed the phase-related characteristics during rapid development of halotolerant aerobic granular sludge. <i>Environment International</i> , 2020, 137, 105548.	4.8	21
40	Multi-omics reveal various potential antimonate reductases from phylogenetically diverse microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9119-9129.	1.7	20
41	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.	5.3	20
42	Metagenomic Evidence for a <i>Methylocystis</i> Species Capable of Bioremediation of Diverse Heavy Metals. <i>Frontiers in Microbiology</i> , 2019, 9, 3297.	1.5	19
43	ENDOR Investigation of the Liganding Environment of Mixed-Spin Ferric Cytochrome c . <i>Journal of the American Chemical Society</i> , 2005, 127, 9485-9494.	6.6	18
44	ENDOR of NO-Ligated Cytochrome c . <i>Journal of the American Chemical Society</i> , 2006, 128, 5021-5032.	6.6	18
45	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, 173-178.	0.7	17
46	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, 903-911.	1.0	17
47	Development, assessment and evaluation of a biopile for hydrocarbons soil remediation. <i>International Biodeterioration and Biodegradation</i> , 2015, 98, 66-72.	1.9	17
48	Phenolic acid-degrading <i>Paraburkholderia</i> prime decomposition in forest soil. <i>ISME Communications</i> , 2021, 1, .	1.7	17
49	Using metagenomics to reveal landscape scale patterns of denitrifiers in a montane forest ecosystem. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107585.	4.2	16
50	Metagenomics and metatranscriptomics uncover the microbial community associated with high S_0 production in a denitrifying desulfurization granular sludge reactor. <i>Water Research</i> , 2021, 203, 117505.	5.3	12
51	Role of <i>norEF</i> in Denitrification, Elucidated by Physiological Experiments with <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2014, 196, 2190-2200.	1.0	10
52	Community Organization and Metagenomics of Bacterial Assemblages Across Local Scale pH Gradients in Northern Forest Soils. <i>Microbial Ecology</i> , 2021, 81, 758-769.	1.4	10
53	Dissimilatory and Assimilatory Nitrate Reduction in the Purple Photosynthetic Bacteria. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 623-642.	1.0	10
54	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.	6.6	10

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55	Soil Organic Matter, Soil Structure, and Bacterial Community Structure in a Post-Agricultural Landscape. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	9
56	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.	2.6	9
57	Respiration-linked proton flux in <i>Wolinella succinogenes</i> during reduction of N-oxides. <i>Archives of Biochemistry and Biophysics</i> , 1986, 244, 713-718.	1.4	7
58	Study of Specific Binding of Maltose Binding Protein to Pyrrole-Derived Bipyridinium Film by Quartz Crystal Microbalance. <i>Langmuir</i> , 2002, 18, 4892-4897.	1.6	7
59	Electron transfer to nitrite reductase of <i>Rhodobacter sphaeroides</i> 2.4.3: examination of cytochromes c 2 and c Y. <i>Microbiology (United Kingdom)</i> , 2006, 152, 1479-1488.	0.7	7
60	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, 102-112.	1.1	6
61	Mechanisms of oxygen inhibition of nirK expression in <i>Rhodobacter sphaeroides</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 3158-3165.	0.7	6
62	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.	0.5	5
63	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.	3.9	5
64	Deletion of the gene encoding cytochrome b ₅₆₂ from <i>Rhodobacter sphaeroides</i> . <i>FEMS Microbiology Letters</i> , 1994, 120, 105-110.	0.7	4