

Grant M Zane

List of Publications by Year in descending order

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37
papers

1,489
citations

471509

17
h-index

395702

33
g-index

43
all docs

43
docs citations

43
times ranked

2197
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutant phenotypes for thousands of bacterial genes of unknown function. <i>Nature</i> , 2018, 557, 503-509.	27.8	433
2	Genetic basis for nitrate resistance in <i>Desulfovibrio</i> strains. <i>Frontiers in Microbiology</i> , 2014, 5, 153.	3.5	202
3	Effect of the Deletion of <i>qmoABC</i> and the Promoter-Distal Gene Encoding a Hypothetical Protein on Sulfate Reduction in <i>Desulfovibrio vulgaris</i> Hildenborough. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5500-5509.	3.1	97
4	Filling gaps in bacterial amino acid biosynthesis pathways with high-throughput genetics. <i>PLoS Genetics</i> , 2018, 14, e1007147.	3.5	90
5	Erosion of functional independence early in the evolution of a microbial mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14822-14827.	7.1	63
6	Mechanisms of Chromium and Uranium Toxicity in <i>Pseudomonas stutzeri</i> RCH2 Grown under Anaerobic Nitrate-Reducing Conditions. <i>Frontiers in Microbiology</i> , 2017, 8, 1529.	3.5	45
7	Rex (Encoded by DVU_0916) in <i>Desulfovibrio vulgaris</i> Hildenborough Is a Repressor of Sulfate Adenylyl Transferase and Is Regulated by NADH. <i>Journal of Bacteriology</i> , 2015, 197, 29-39.	2.2	37
8	Functional Characterization of Crp/Fnr-Type Global Transcriptional Regulators in <i>Desulfovibrio vulgaris</i> Hildenborough. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1168-1177.	3.1	32
9	Biofilm growth mode promotes maximum carrying capacity and community stability during product inhibition syntrophy. <i>Frontiers in Microbiology</i> , 2014, 5, 693.	3.5	32
10	Rapid Transposon Liquid Enrichment Sequencing (TnLE-seq) for Gene Fitness Evaluation in Underdeveloped Bacterial Systems. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7510-7517.	3.1	28
11	Identification of a cyclic-di-GMP-modulating response regulator that impacts biofilm formation in a model sulfate reducing bacterium. <i>Frontiers in Microbiology</i> , 2014, 5, 382.	3.5	28
12	Adeno-Associated Virus (AAV) Gene Delivery: Dissecting Molecular Interactions upon Cell Entry. <i>Viruses</i> , 2021, 13, 1336.	3.3	28
13	Regulation of Nitrite Stress Response in <i>Desulfovibrio vulgaris</i> Hildenborough, a Model Sulfate-Reducing Bacterium. <i>Journal of Bacteriology</i> , 2015, 197, 3400-3408.	2.2	27
14	Fractionation of sulfur isotopes by <i>Desulfovibrio vulgaris</i> mutants lacking hydrogenases or type I tetraheme cytochrome c3. <i>Frontiers in Microbiology</i> , 2013, 4, 171.	3.5	26
15	Rapid selective sweep of pre-existing polymorphisms and slow fixation of new mutations in experimental evolution of <i>Desulfovibrio vulgaris</i> . <i>ISME Journal</i> , 2015, 9, 2360-2372.	9.8	24
16	Mechanism for microbial population collapse in a fluctuating resource environment. <i>Molecular Systems Biology</i> , 2017, 13, 919.	7.2	22
17	Iron- and aluminium-induced depletion of molybdenum in acidic environments impedes the nitrogen cycle. <i>Environmental Microbiology</i> , 2019, 21, 152-163.	3.8	22
18	Novel Metal Cation Resistance Systems from Mutant Fitness Analysis of Denitrifying <i>Pseudomonas stutzeri</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 6046-6056.	3.1	21

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19	Deletion of the <i>Desulfovibrio vulgaris</i> Carbon Monoxide Sensor Invokes Global Changes in Transcription. <i>Journal of Bacteriology</i> , 2012, 194, 5783-5793.	2.2	20
20	The Structure of an AAV5-AAVR Complex at 2.5 Å Resolution: Implications for Cellular Entry and Immune Neutralization of AAV Gene Therapy Vectors. <i>Viruses</i> , 2020, 12, 1326.	3.3	20
21	Sulfur Isotope Fractionation during the Evolutionary Adaptation of a Sulfate-Reducing Bacterium. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2676-2689.	3.1	18
22	Unintended Laboratory-Driven Evolution Reveals Genetic Requirements for Biofilm Formation by <i>Desulfovibrio vulgaris</i> Hildenborough. <i>MBio</i> , 2017, 8, .	4.1	18
23	Cr(VI) reduction and physiological toxicity are impacted by resource ratio in <i>Desulfovibrio vulgaris</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2839-2850.	3.6	18
24	Characterization of subsurface media from locations up- and down-gradient of a uranium-contaminated aquifer. <i>Chemosphere</i> , 2020, 255, 126951.	8.2	18
25	New Family of Tungstate-Responsive Transcriptional Regulators in Sulfate-Reducing Bacteria. <i>Journal of Bacteriology</i> , 2013, 195, 4466-4475.	2.2	16
26	Adaptation of <i>Desulfovibrio alaskensis</i> G20 to perchlorate, a specific inhibitor of sulfate reduction. <i>Environmental Microbiology</i> , 2019, 21, 1395-1406.	3.8	14
27	Key Metabolites and Mechanistic Changes for Salt Tolerance in an Experimentally Evolved Sulfate-Reducing Bacterium, <i>Desulfovibrio vulgaris</i> . <i>MBio</i> , 2017, 8, .	4.1	13
28	Towards a Rigorous Network of Protein-Protein Interactions of the Model Sulfate Reducer <i>Desulfovibrio vulgaris</i> Hildenborough. <i>PLoS ONE</i> , 2011, 6, e21470.	2.5	12
29	Deconstructing the Dissimilatory Sulfate Reduction Pathway: Isotope Fractionation of a Mutant Unable of Growth on Sulfate. <i>Frontiers in Microbiology</i> , 2018, 9, 3110.	3.5	11
30	Experimental evolution reveals nitrate tolerance mechanisms in <i>Desulfovibrio vulgaris</i> . <i>ISME Journal</i> , 2020, 14, 2862-2876.	9.8	10
31	Expression and Purification of Adeno-associated Virus Virus-like Particles in a Baculovirus System and AAVR Ectodomain Constructs in <i>E. coli</i> . <i>Bio-protocol</i> , 2020, 10, e3513.	0.4	9
32	Exploring the role of CheA3 in <i>Desulfovibrio vulgaris</i> Hildenborough motility. <i>Frontiers in Microbiology</i> , 2014, 5, 77.	3.5	7
33	Novel Mode of Molybdate Inhibition of <i>Desulfovibrio vulgaris</i> Hildenborough. <i>Frontiers in Microbiology</i> , 2020, 11, 610455.	3.5	7
34	Adeno-Associated Virus Receptor-Binding: Flexible Domains and Alternative Conformations through Cryo-Electron Tomography of Adeno-Associated Virus 2 (AAV2) and AAV5 Complexes. <i>Journal of Virology</i> , 2022, 96, .	3.4	7
35	Deletion Mutants, Archived Transposon Library, and Tagged Protein Constructs of the Model Sulfate-Reducing Bacterium <i>Desulfovibrio vulgaris</i> Hildenborough. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	6
36	LurR is a regulator of the central lactate oxidation pathway in sulfate-reducing <i>Desulfovibrio</i> species. <i>PLoS ONE</i> , 2019, 14, e0214960.	2.5	3

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37	Biofilm Interaction Mapping and Analysis (BIMA) of Interspecific Interactions in Pseudomonas Co-culture Biofilms. <i>Frontiers in Microbiology</i> , 2021, 12, 757856.	3.5	1