Grant M Zane

List of Publications by Year
in descending order

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	Adeno-Associated Virus Receptor-Binding: Flexible Domains and Alternative Conformations through Cryo-Electron Tomography of Adeno-Associated Virus 2 (AAV2) and AAV5 Complexes. Journal of Virology, 2022, 96, .	3.4	7
2	Deletion Mutants, Archived Transposon Library, and Tagged Protein Constructs of the Model Sulfate-Reducing Bacterium Desulfovibrio vulgaris Hildenborough. Microbiology Resource Announcements, 2021, 10, .	0.6	6
3	Adeno-Associated Virus (AAV) Gene Delivery: Dissecting Molecular Interactions upon Cell Entry. Viruses, 2021, 13, 1336.	3.3	28
4	Biofilm Interaction Mapping and Analysis (BIMA) of Interspecific Interactions in Pseudomonas Co-culture Biofilms. Frontiers in Microbiology, 2021, 12, 757856.	3.5	1
5	The Structure of an AAV5-AAVR Complex at 2.5 â„« Resolution: Implications for Cellular Entry and Immune Neutralization of AAV Gene Therapy Vectors. Viruses, 2020, 12, 1326.	3.3	20
6	Experimental evolution reveals nitrate tolerance mechanisms in Desulfovibrio vulgaris. ISME Journal, 2020, 14, 2862-2876.	9.8	10
7	Novel Mode of Molybdate Inhibition of Desulfovibrio vulgaris Hildenborough. Frontiers in Microbiology, 2020, 11, 610455.	3.5	7
8	Characterization of subsurface media from locations up- and down-gradient of a uranium-contaminated aquifer. Chemosphere, 2020, 255, 126951.	8.2	18
9	Expression and Purification of Adeno-associated Virus Virus-like Particles in a Baculovirus System and AAVR Ectodomain Constructs in E. coli. Bio-protocol, 2020, 10, e3513.	0.4	9
10	LurR is a regulator of the central lactate oxidation pathway in sulfate-reducing Desulfovibrio species. PLoS ONE, 2019, 14, e0214960.	2.5	3
11	Adaptation of Desulfovibrio alaskensis G20 to perchlorate, a specific inhibitor of sulfate reduction. Environmental Microbiology, 2019, 21, 1395-1406.	3.8	14
12	Ironâ€•and aluminiumâ€‐induced depletion of molybdenum in acidic environments impedes the nitrogen cycle. Environmental Microbiology, 2019, 21, 152-163.	3.8	22
13	Cr(VI) reduction and physiological toxicity are impacted by resource ratio in Desulfovibrio vulgaris. Applied Microbiology and Biotechnology, 2018, 102, 2839-2850.	3.6	18
14	Deconstructing the Dissimilatory Sulfate Reduction Pathway: Isotope Fractionation of a Mutant Unable of Growth on Sulfate. Frontiers in Microbiology, 2018, 9, 3110.	3.5	11
15	Mutant phenotypes for thousands of bacterial genes of unknown function. Nature, 2018, 557, 503-509.	27.8	433
16	Filling gaps in bacterial amino acid biosynthesis pathways with high-throughput genetics. PLoS Genetics, 2018, 14, e1007147.	3.5	90
17	Mechanism for microbial population collapse in a fluctuating resource environment. Molecular Systems Biology, 2017, 13, 919.	7.2	22
18	Unintended Laboratory-Driven Evolution Reveals Genetic Requirements for Biofilm Formation by Desulfovibrio vulgaris Hildenborough. MBio, 2017, 8, .	4.1	18

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19	Key Metabolites and Mechanistic Changes for Salt Tolerance in an Experimentally Evolved Sulfate-Reducing Bacterium, Desulfovibrio vulgaris. MBio, 2017, 8, .	4.1	13
20	Mechanisms of Chromium and Uranium Toxicity in Pseudomonas stutzeri RCH2 Grown under Anaerobic Nitrate-Reducing Conditions. Frontiers in Microbiology, 2017, 8, 1529.	3.5	45
21	Novel Metal Cation Resistance Systems from Mutant Fitness Analysis of Denitrifying Pseudomonas stutzeri. Applied and Environmental Microbiology, 2016, 82, 6046-6056.	3.1	21
22	Sulfur Isotope Fractionation during the Evolutionary Adaptation of a Sulfate-Reducing Bacterium. Applied and Environmental Microbiology, 2015, 81, 2676-2689.	3.1	18
23	Rapid selective sweep of pre-existing polymorphisms and slow fixation of new mutations in experimental evolution of Desulfovibrio vulgaris. ISME Journal, 2015, 9, 2360-2372.	9.8	24
24	Regulation of Nitrite Stress Response in Desulfovibrio vulgaris Hildenborough, a Model Sulfate-Reducing Bacterium. Journal of Bacteriology, 2015, 197, 3400-3408.	2.2	27
25	Rex (Encoded by DVU_0916) in Desulfovibrio vulgaris Hildenborough Is a Repressor of Sulfate Adenylyl Transferase and Is Regulated by NADH. Journal of Bacteriology, 2015, 197, 29-39.	2.2	37
26	Exploring the role of CheA3 in Desulfovibrio vulgaris Hildenborough motility. Frontiers in Microbiology, 2014, 5, 77.	3.5	7
27	Identification of a cyclic-di-GMP-modulating response regulator that impacts biofilm formation in a model sulfate reducing bacterium. Frontiers in Microbiology, 2014, 5, 382.	3.5	28
28	Biofilm growth mode promotes maximum carrying capacity and community stability during product inhibition syntrophy. Frontiers in Microbiology, 2014, 5, 693.	3.5	32
29	Erosion of functional independence early in the evolution of a microbial mutualism. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14822-14827.	7.1	63
30	Genetic basis for nitrate resistance in Desulfovibrio strains. Frontiers in Microbiology, 2014, 5, 153.	3.5	202
31	Rapid Transposon Liquid Enrichment Sequencing (TnLE-seq) for Gene Fitness Evaluation in Underdeveloped Bacterial Systems. Applied and Environmental Microbiology, 2013, 79, 7510-7517.	3.1	28
32	New Family of Tungstate-Responsive Transcriptional Regulators in Sulfate-Reducing Bacteria. Journal of Bacteriology, 2013, 195, 4466-4475.	2.2	16
33	Fractionation of sulfur isotopes by Desulfovibrio vulgaris mutants lacking hydrogenases or type I tetraheme cytochrome c3. Frontiers in Microbiology, 2013, 4, 171.	3.5	26
34	Functional Characterization of Crp/Fnr-Type Global Transcriptional Regulators in Desulfovibrio vulgaris Hildenborough. Applied and Environmental Microbiology, 2012, 78, 1168-1177.	3.1	32
35	Deletion of the Desulfovibrio vulgaris Carbon Monoxide Sensor Invokes Global Changes in Transcription. Journal of Bacteriology, 2012, 194, 5783-5793.	2.2	20
36	Towards a Rigorous Network of Protein-Protein Interactions of the Model Sulfate Reducer Desulfovibrio vulgaris Hildenborough. PLoS ONE, 2011, 6, e21470.	2.5	12

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37	Effect of the Deletion of qmoABC and the Promoter-Distal Gene Encoding a Hypothetical Protein on Sulfate Reduction in Desulfovibrio vulgaris Hildenborough. Applied and Environmental Microbiology, 2010, 76, 5500-5509.	3.1	97