

Saroj Poudel

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,079
citations

430442

18
h-index

642321

23
g-index

24
all docs

24
docs citations

24
times ranked

1401
citing authors

#	ARTICLE	IF	CITATIONS
1	A pathway for biological methane production using bacterial iron-only nitrogenase. <i>Nature Microbiology</i> , 2018, 3, 281-286.	5.9	131
2	The deep, hot biosphere: Twenty-five years of retrospection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6895-6903.	3.3	102
3	Electron Transfer to Nitrogenase in Different Genomic and Metabolic Backgrounds. <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	85
4	Defining Electron Bifurcation in the Electron-Transferring Flavoprotein Family. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	78
5	Microbialite response to an anthropogenic salinity gradient in Great Salt Lake, Utah. <i>Geobiology</i> , 2017, 15, 131-145.	1.1	77
6	Unification of [FeFe]-hydrogenases into three structural and functional groups. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1910-1921.	1.1	76
7	Geobiological feedbacks and the evolution of thermoacidophiles. <i>ISME Journal</i> , 2018, 12, 225-236.	4.4	70
8	Physiological adaptations to serpentinization in the Samail Ophiolite, Oman. <i>ISME Journal</i> , 2019, 13, 1750-1762.	4.4	61
9	Two functionally distinct NADP ⁺ -dependent ferredoxin oxidoreductases maintain the primary redox balance of <i>Pyrococcus furiosus</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 14603-14616.	1.6	54
10	De novo design of symmetric ferredoxins that shuttle electrons in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14557-14562.	3.3	41
11	H/D exchange mass spectrometry and statistical coupling analysis reveal a role for allostery in a ferredoxin-dependent bifurcating transhydrogenase catalytic cycle. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 9-17.	1.1	38
12	The DUF59 Containing Protein SufT Is Involved in the Maturation of Iron-Sulfur (FeS) Proteins during Conditions of High FeS Cofactor Demand in <i>Staphylococcus aureus</i> . <i>PLoS Genetics</i> , 2016, 12, e1006233.	1.5	37
13	Origin and Evolution of Flavin-Based Electron Bifurcating Enzymes. <i>Frontiers in Microbiology</i> , 2018, 9, 1762.	1.5	34
14	Bioenergetic constraints on the origin of autotrophic metabolism. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190151.	1.6	33
15	Small protein folds at the root of an ancient metabolic network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7193-7199.	3.3	32
16	The Physiological Functions and Structural Determinants of Catalytic Bias in the [FeFe]-Hydrogenases Cpl and CplI of <i>Clostridium pasteurianum</i> Strain W5. <i>Frontiers in Microbiology</i> , 2017, 8, 1305.	1.5	30
17	The path of electron transfer to nitrogenase in a phototrophic alpha- ϵ -proteobacterium. <i>Environmental Microbiology</i> , 2018, 20, 2500-2508.	1.8	26
18	Identification of MicroRNAs and Transcript Targets in <i>Camelina sativa</i> by Deep Sequencing and Computational Methods. <i>PLoS ONE</i> , 2015, 10, e0121542.	1.1	22

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19	Electron acceptor availability alters carbon and energy metabolism in a thermoacidophile. <i>Environmental Microbiology</i> , 2018, 20, 2523-2537.	1.8	17
20	Biophysical analysis of the structural evolution of substrate specificity in RuBisCO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30451-30457.	3.3	14
21	The Beta Subunit of Non-bifurcating NADH-Dependent [FeFe]-Hydrogenases Differs From Those of Multimeric Electron-Bifurcating [FeFe]-Hydrogenases. <i>Frontiers in Microbiology</i> , 2020, 11, 1109.	1.5	14
22	Design of a Fe ₄ S ₄ cluster into the core of a <i>deÂnovo</i> four- α -helix bundle. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 574-585.	1.4	6
23	Proteins Related to the Type I Secretion System Are Associated with Secondary SecA_DEAD Domain Proteins in Some Species of Planctomycetes, Verrucomicrobia, Proteobacteria, Nitrospirae and Chlorobi. <i>PLoS ONE</i> , 2015, 10, e0129066.	1.1	1