

Nicole R Buan

List of Publications by Year in descending order

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28
papers

1,158
citations

516710

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docs citations

28
times ranked

1093
citing authors

#	ARTICLE	IF	CITATIONS
1	The Identity of Proteins Associated with a Small Heat Shock Protein during Heat Stress in Vivo Indicates That These Chaperones Protect a Wide Range of Cellular Functions. <i>Journal of Biological Chemistry</i> , 2004, 279, 7566-7575.	3.4	145
2	Spectroscopic and Computational Studies of Co ³⁺ -Corrinoids: Spectral and Electronic Properties of the B ₁₂ Cofactors and Biologically Relevant Precursors. <i>Journal of the American Chemical Society</i> , 2003, 125, 5897-5914.	13.7	122
3	Spectroscopic and Computational Studies of Co ²⁺ -Corrinoids: Spectral and Electronic Properties of the Biologically Relevant Base-On and Base-Off Forms of Co ²⁺ -Cobalamin. <i>Journal of the American Chemical Society</i> , 2004, 126, 9735-9749.	13.7	120
4	Interactions between Small Heat Shock Protein Subunits and Substrate in Small Heat Shock Protein-Substrate Complexes. <i>Journal of Biological Chemistry</i> , 2004, 279, 1080-1089.	3.4	100
5	Methanogenesis by <i>Methanosarcina acetivorans</i> involves two structurally and functionally distinct classes of heterodisulfide reductase. <i>Molecular Microbiology</i> , 2010, 75, 843-853.	2.5	97
6	Spectroscopic and Computational Studies of the ATP:Corrinoid Adenosyltransferase (CobA) from <i>Salmonella enterica</i> : Insights into the Mechanism of Adenosylcobalamin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2005, 127, 8710-8719.	13.7	90
7	Methanogens: pushing the boundaries of biology. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 629-646.	2.6	88
8	The eutT Gene of <i>Salmonella enterica</i> Encodes an Oxygen-Labile, Metal-Containing ATP:Corrinoid Adenosyltransferase Enzyme. <i>Journal of Bacteriology</i> , 2004, 186, 5708-5714.	2.2	67
9	Genetic Methods for <i>Methanosarcina</i> Species. <i>Methods in Enzymology</i> , 2011, 494, 23-42.	1.0	39
10	Syntheses and characterization of vitamin B ₁₂ -Pt(II) conjugates and their adenosylation in an enzymatic assay. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 335-347.	2.6	37
11	Purification and Initial Biochemical Characterization of ATP:Cob(I)alamin Adenosyltransferase (EutT) Enzyme of <i>Salmonella enterica</i> *. <i>Journal of Biological Chemistry</i> , 2006, 281, 16971-16977.	3.4	34
12	The ATP:Co(I)rrinoid Adenosyltransferase (CobA) Enzyme of <i>Salmonella enterica</i> Requires the 2'-OH Group of ATP for Function and Yields Inorganic Triphosphate as Its Reaction Byproduct. <i>Journal of Biological Chemistry</i> , 2002, 277, 33127-33131.	3.4	31
13	Computer-assisted Docking of Flavodoxin with the ATP:Co(I)rrinoid Adenosyltransferase (CobA) Enzyme Reveals Residues Critical for Protein-Protein Interactions but Not for Catalysis. <i>Journal of Biological Chemistry</i> , 2005, 280, 40948-40956.	3.4	27
14	A Multienzyme Complex Channels Substrates and Electrons through Acetyl-CoA and Methane Biosynthesis Pathways in <i>Methanosarcina</i> . <i>PLoS ONE</i> , 2014, 9, e107563.	2.5	22
15	Anaerobic Production of Isoprene by Engineered <i>Methanosarcina</i> Species Archaea. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	21
16	Rerouting Cellular Electron Flux To Increase the Rate of Biological Methane Production. <i>Applied and Environmental Microbiology</i> , 2015, 81, 6528-6537.	3.1	19
17	Physiological Evidence for Isopotential Tunneling in the Electron Transport Chain of Methane-Producing Archaea. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	18
18	Studies of the CobA-Type ATP:Co(I)rrinoid Adenosyltransferase Enzyme of <i>Methanosarcina mazei</i> Strain Go ¹ . <i>Journal of Bacteriology</i> , 2006, 188, 3543-3550.	2.2	14

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19	Metabolic Feedback Inhibition Influences Metabolite Secretion by the Human Gut Symbiont <i>Bacteroides thetaiotaomicron</i> . <i>MSystems</i> , 2020, 5, .	3.8	13
20	Mutual information upper bound of molecular communication based on cell metabolism. , 2016, , .		11
21	Metabolic Synergy between Human Symbionts <i>Bacteroides</i> and <i>Methanobrevibacter</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0106722.	3.0	10
22	pNEB193-derived suicide plasmids for gene deletion and protein expression in the methane-producing archaeon, <i>Methanosarcina acetivorans</i> . <i>Plasmid</i> , 2016, 84-85, 27-35.	1.4	9
23	High-throughput mutation, selection, and phenotype screening of mutant methanogenic archaea. <i>Journal of Microbiological Methods</i> , 2016, 131, 113-121.	1.6	6
24	Isoprene Production from Municipal Wastewater Biosolids by Engineered Archaeon <i>Methanosarcina acetivorans</i> . <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3342.	2.5	6
25	Methods for Detecting Microbial Methane Production and Consumption by Gas Chromatography. <i>Bio-protocol</i> , 2016, 6, .	0.4	4
26	BioSIMP: Using Software Testing Techniques for Sampling and Inference in Biological Organisms. , 2017, , .		3
27	Reintegrating Biology Through the Nexus of Energy, Information, and Matter. <i>Integrative and Comparative Biology</i> , 2022, 61, 2082-2094.	2.0	3
28	Charting a New Frontier Integrating Mathematical Modeling in Complex Biological Systems from Molecules to Ecosystems. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	2