Jarrod B French

List of Publications by Year
in descending order

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51 papers	1,997 citations	257429 24 h-index	254170 43 g-index
54 all docs	54 docs citations	54 times ranked	3174 citing authors

#	Article	IF	Citations
1	Structure of the E. coli agmatinase, SPEB. PLoS ONE, 2021, 16, e0248991.	2.5	4
2	The Intersection of Purine and Mitochondrial Metabolism in Cancer. Cells, 2021, 10, 2603.	4.1	29
3	Excited State Vibrations of Isotopically Labeled FMN Free and Bound to a Lightâ€“Oxygenâ€“Voltage (LOV) Protein. Journal of Physical Chemistry B, 2020, 124, 7152-7165.	2.6	10
4	Structural Basis for the Regulation of Biofilm Formation and Iron Uptake in A. baumannii by the Blue-Light-Using Photoreceptor, BlsA. ACS Infectious Diseases, 2020, 6, 2592-2603.	3.8	14
5	Unraveling the Mechanism of a LOV Domain Optogenetic Sensor: A Glutamine Lever Induces Unfolding of the JÎ± Helix. ACS Chemical Biology, 2020, 15, 2752-2765.	3.4	29
6	An unexpected 2-histidine phosphoesterase activity of suppressor of T-cell receptor signaling protein 1 contributes to the suppression of cell signaling. Journal of Biological Chemistry, 2020, 295, 8514-8523.	3.4	5
7	Structural Determinants for Substrate Selectivity in Guanine Deaminase Enzymes of the Amidohydrolase Superfamily. Biochemistry, 2019, 58, 3280-3292.	2.5	16
8	Crystal structure of E. coli PRPP synthetase. BMC Structural Biology, 2019, 19, 1.	2.3	20
9	Structure-Based Design, Synthesis, and Biological Evaluation of Non-Acyl Sulfamate Inhibitors of the Adenylate-Forming Enzyme MenE. Biochemistry, 2019, 58, 1918-1930.	2.5	4
10	Vibrational spectroscopy of flavoproteins. Methods in Enzymology, 2019, 620, 189-214.	1.0	10
11	Discovery and Characterization of Two Classes of Selective Inhibitors of the Suppressor of the TCR Signaling Family of Proteins. ACS Infectious Diseases, 2019, 5, 250-259.	3.8	4
12	Fast, volumetric live-cell imaging using high-resolution light-field microscopy. Biomedical Optics Express, 2019, 10, 29.	2.9	87
13	Depth-extended, high-resolution fluorescence microscopy: whole-cell imaging with double-ring phase (DRiP) modulation. Biomedical Optics Express, 2019, 10, 204.	2.9	8
14	The â€˜Complexâ€™ Problem of Purine Metabolism. FASEB Journal, 2019, 33, .	0.5	0
15	Variation in LOV Photoreceptor Activation Dynamics Probed by Time-Resolved Infrared Spectroscopy. Biochemistry, 2018, 57, 620-630.	2.5	20
16	Viral FGARAT ORF75A promotes early events in lytic infection and gammaherpesvirus pathogenesis in mice. PLoS Pathogens, 2018, 14, e1006843.	4.7	9
17	Structural dynamics of blue light sensitive bacterial photoreceptor blsA. FASEB Journal, 2018, 32, lb62.	0.5	0
18	Structural characterization of human uridine monophosphate synthase (UMPS) and its spatioâ€temporal localization in cells. FASEB Journal, 2018, 32, lb51.	0.5	0

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19	Higher order structures in purine and pyrimidine metabolism. Journal of Structural Biology, 2017, 197, 354-364.	2.8	30
20	Femtosecond to Millisecond Dynamics of Light Induced Allostery in the Avena sativa LOV Domain. Journal of Physical Chemistry B, 2017, 121, 1010-1019.	2.6	36
21	Photoactivation of the BLUF Protein PixD Probed by the Site-Specific Incorporation of Fluorotyrosine Residues. Journal of the American Chemical Society, 2017, 139, 14638-14648.	13.7	38
22	Structural and Functional Characterization of the Histidine Phosphatase Domains of Human Sts-1 and Sts-2. Biochemistry, 2017, 56, 4637-4645.	2.5	12
23	Structural and Functional Basis for Targeting Campylobacter jejuni Agmatine Deiminase To Overcome Antibiotic Resistance. Biochemistry, 2017, 56, 6734-6742.	2.5	6
24	Mechanism of the AppA_{BLUF} Photocycle Probed by Site-Specific Incorporation of Fluorotyrosine Residues: Effect of the Y21 pK_a on the Forward and Reverse Ground-State Reactions. Journal of the American Chemical Society, 2016, 138, 926-935.	13.7	26
25	Spatial colocalization and functional link of purinosomes with mitochondria. Science, 2016, 351, 733-737.	12.6	174
26	Crystallography: Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves (Small 23/2015). Small, 2015, 11, 2710-2710.	10.0	1
27	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. Small, 2015, 11, 2733-2737.	10.0	49
28	Quantitative Analysis of Purine Nucleotides Indicates That Purinosomes Increase de Novo Purine Biosynthesis. Journal of Biological Chemistry, 2015, 290, 6705-6713.	3.4	101
29	Purinosome formation as a function of the cell cycle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1368-1373.	7.1	84
30	Mechanism of MenE Inhibition by Acyl-Adenylate Analogues and Discovery of Novel Antibacterial Agents. Biochemistry, 2015, 54, 6514-6524.	2.5	27
31	Controlling cellâ€“cell interactions using surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 43-48.	7.1	330
32	Acoustofluidic Chemical Waveform Generator and Switch. Analytical Chemistry, 2014, 86, 11803-11810.	6.5	48
33	Probing the Electrostatics of Active Site Microenvironments along the Catalytic Cycle for Escherichia coli Dihydrofolate Reductase. Journal of the American Chemical Society, 2014, 136, 10349-10360.	13.7	85
34	Probing cellâ€“cell communication with microfluidic devices. Lab on A Chip, 2013, 13, 3152.	6.0	65
35	Functional significance of evolving protein sequence in dihydrofolate reductase from bacteria to humans. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10159-10164.	7.1	84
36	Hsp70/Hsp90 chaperone machinery is involved in the assembly of the purinosome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2528-2533.	7.1	81

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37	The purinosome, a multi-protein complex involved in the de novo biosynthesis of purines in humans. Chemical Communications, 2013, 49, 4444.	4.1	74
38	Lab-on-a-chip technologies for single-molecule studies. Lab on A Chip, 2013, 13, 2183.	6.0	42
39	G-protein-coupled receptor regulation ofde novopurine biosynthesis: a novel druggable mechanism. Biotechnology and Genetic Engineering Reviews, 2013, 29, 31-48.	6.2	15
40	Mapping Protein-Protein Proximity in the Purinosome. Journal of Biological Chemistry, 2012, 287, 36201-36207.	3.4	57
41	Characterization of the Structure and Function of Klebsiella pneumoniae Allantoin Racemase. Journal of Molecular Biology, 2011, 410, 447-460.	4.2	14
42	Structural and kinetic insights into the mechanism of 5-hydroxyisourate hydrolase fromKlebsiella pneumoniae. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 671-677.	2.5	10
43	Structure of trifunctional THI20 from yeast. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 784-791.	2.5	19
44	The Leishmania donovani UMP Synthase Is Essential for Promastigote Viability and Has an Unusual Tetrameric Structure That Exhibits Substrate-controlled Oligomerization. Journal of Biological Chemistry, 2011, 286, 20930-20941.	3.4	38
45	Structural and Mechanistic Studies on Klebsiella pneumoniae 2-Oxo-4-hydroxy-4-carboxy-5-ureidoimidazoline Decarboxylase. Journal of Biological Chemistry, 2010, 285, 35446-35454.	3.4	19
46	High-Resolution Crystal Structures of Streptococcus pneumoniae Nicotinamidase with Trapped Intermediates Provide Insights into the Catalytic Mechanism and Inhibition by Aldehydes,. Biochemistry, 2010, 49, 8803-8812.	2.5	30
47	Biochemical and Structural Characterization of a Ureidoglycine Aminotransferase in the Klebsiella pneumoniae Uric Acid Catabolic Pathway. Biochemistry, 2010, 49, 5975-5977.	2.5	12
48	Characterization of Nicotinamidases: Steady State Kinetic Parameters, Classwide Inhibition by Nicotinaldehydes, and Catalytic Mechanism. Biochemistry, 2010, 49, 10421-10439.	2.5	51
49	Plasmodium falciparum Sir2 is an NAD+-Dependent Deacetylase and an Acetyllysine-Dependent and Acetyllysine-Independent NAD+ Glycohydrolase. Biochemistry, 2008, 47, 10227-10239.	2.5	46
50	A comparative molecular field analysis of the biotransformation of sulfides by Rhodococcus erythropolis. Journal of Molecular Catalysis B: Enzymatic, 2004, 31, 87-96.	1.8	7
51	Biotransformation of ?-ketosulfides to produce chiral ?-hydroxysulfoxides. Journal of Industrial Microbiology and Biotechnology, 2003, 30, 292-301.	3.0	17