

Jarrold B French

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,997
citations

293460

24
h-index

286692

43
g-index

54
all docs

54
docs citations

54
times ranked

3619
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Structure of the E. coli agmatinase, SPEB. PLoS ONE, 2021, 16, e0248991. | 1.1 | 4 |
| 2 | The Intersection of Purine and Mitochondrial Metabolism in Cancer. Cells, 2021, 10, 2603. | 1.8 | 29 |
| 3 | Excited State Vibrations of Isotopically Labeled FMN Free and Bound to a Light-Responsive Oxygen Voltage (LOV) Protein. Journal of Physical Chemistry B, 2020, 124, 7152-7165. | 1.2 | 10 |
| 4 | Structural Basis for the Regulation of Biofilm Formation and Iron Uptake in <i>A. baumannii</i> by the Blue-Light-Using Photoreceptor, BlsA. ACS Infectious Diseases, 2020, 6, 2592-2603. | 1.8 | 14 |
| 5 | Unraveling the Mechanism of a LOV Domain Optogenetic Sensor: A Glutamine Lever Induces Unfolding of the β Helix. ACS Chemical Biology, 2020, 15, 2752-2765. | 1.6 | 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. | 1.6 | 5 |
| 7 | Structural Determinants for Substrate Selectivity in Guanine Deaminase Enzymes of the Amidohydrolase Superfamily. Biochemistry, 2019, 58, 3280-3292. | 1.2 | 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. | 1.2 | 4 |
| 10 | Vibrational spectroscopy of flavoproteins. Methods in Enzymology, 2019, 620, 189-214. | 0.4 | 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. | 1.8 | 4 |
| 12 | Fast, volumetric live-cell imaging using high-resolution light-field microscopy. Biomedical Optics Express, 2019, 10, 29. | 1.5 | 87 |
| 13 | Depth-extended, high-resolution fluorescence microscopy: whole-cell imaging with double-ring phase (DRiP) modulation. Biomedical Optics Express, 2019, 10, 204. | 1.5 | 8 |
| 14 | The "Complex" Problem of Purine Metabolism. FASEB Journal, 2019, 33, . | 0.2 | 0 |
| 15 | Variation in LOV Photoreceptor Activation Dynamics Probed by Time-Resolved Infrared Spectroscopy. Biochemistry, 2018, 57, 620-630. | 1.2 | 20 |
| 16 | Viral FGARAT ORF75A promotes early events in lytic infection and gammaherpesvirus pathogenesis in mice. PLoS Pathogens, 2018, 14, e1006843. | 2.1 | 9 |
| 17 | Structural dynamics of blue light sensitive bacterial photoreceptor blsA. FASEB Journal, 2018, 32, lb62. | 0.2 | 0 |
| 18 | Structural characterization of human uridine monophosphate synthase (UMPS) and its spatio-temporal localization in cells. FASEB Journal, 2018, 32, lb51. | 0.2 | 0 |

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|----|---|-----|-----------|
| 19 | Higher order structures in purine and pyrimidine metabolism. <i>Journal of Structural Biology</i> , 2017, 197, 354-364. | 1.3 | 30 |
| 20 | Femtosecond to Millisecond Dynamics of Light Induced Allostery in the <i>Avena sativa</i> LOV Domain. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1010-1019. | 1.2 | 36 |
| 21 | Photoactivation of the BLUF Protein PixD Probed by the Site-Specific Incorporation of Fluorotyrosine Residues. <i>Journal of the American Chemical Society</i> , 2017, 139, 14638-14648. | 6.6 | 38 |
| 22 | Structural and Functional Characterization of the Histidine Phosphatase Domains of Human Sts-1 and Sts-2. <i>Biochemistry</i> , 2017, 56, 4637-4645. | 1.2 | 12 |
| 23 | Structural and Functional Basis for Targeting <i>Campylobacter jejuni</i> Arginine Deiminase To Overcome Antibiotic Resistance. <i>Biochemistry</i> , 2017, 56, 6734-6742. | 1.2 | 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. <i>Journal of the American Chemical Society</i> , 2016, 138, 926-935. | 6.6 | 26 |
| 25 | Spatial colocalization and functional link of purinosomes with mitochondria. <i>Science</i> , 2016, 351, 733-737. | 6.0 | 174 |
| 26 | Crystallography: Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves (<i>Small</i> 23/2015). <i>Small</i> , 2015, 11, 2710-2710. | 5.2 | 1 |
| 27 | Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. <i>Small</i> , 2015, 11, 2733-2737. | 5.2 | 49 |
| 28 | Quantitative Analysis of Purine Nucleotides Indicates That Purinosomes Increase de Novo Purine Biosynthesis. <i>Journal of Biological Chemistry</i> , 2015, 290, 6705-6713. | 1.6 | 101 |
| 29 | Purinosome formation as a function of the cell cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1368-1373. | 3.3 | 84 |
| 30 | Mechanism of MenE Inhibition by Acyl-Adenylate Analogues and Discovery of Novel Antibacterial Agents. <i>Biochemistry</i> , 2015, 54, 6514-6524. | 1.2 | 27 |
| 31 | Controlling cell-cell interactions using surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 43-48. | 3.3 | 330 |
| 32 | Acoustofluidic Chemical Waveform Generator and Switch. <i>Analytical Chemistry</i> , 2014, 86, 11803-11810. | 3.2 | 48 |
| 33 | Probing the Electrostatics of Active Site Microenvironments along the Catalytic Cycle for <i>Escherichia coli</i> Dihydrofolate Reductase. <i>Journal of the American Chemical Society</i> , 2014, 136, 10349-10360. | 6.6 | 85 |
| 34 | Probing cell-cell communication with microfluidic devices. <i>Lab on A Chip</i> , 2013, 13, 3152. | 3.1 | 65 |
| 35 | Functional significance of evolving protein sequence in dihydrofolate reductase from bacteria to humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10159-10164. | 3.3 | 84 |
| 36 | Hsp70/Hsp90 chaperone machinery is involved in the assembly of the purinosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2528-2533. | 3.3 | 81 |

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|----|--|-----|-----------|
| 37 | The purinosome, a multi-protein complex involved in the de novo biosynthesis of purines in humans. <i>Chemical Communications</i> , 2013, 49, 4444. | 2.2 | 74 |
| 38 | Lab-on-a-chip technologies for single-molecule studies. <i>Lab on A Chip</i> , 2013, 13, 2183. | 3.1 | 42 |
| 39 | G-protein-coupled receptor regulation of <i>de novo</i> purine biosynthesis: a novel druggable mechanism. <i>Biotechnology and Genetic Engineering Reviews</i> , 2013, 29, 31-48. | 2.4 | 15 |
| 40 | Mapping Protein-Protein Proximity in the Purinosome. <i>Journal of Biological Chemistry</i> , 2012, 287, 36201-36207. | 1.6 | 57 |
| 41 | Characterization of the Structure and Function of <i>Klebsiella pneumoniae</i> Allantoin Racemase. <i>Journal of Molecular Biology</i> , 2011, 410, 447-460. | 2.0 | 14 |
| 42 | Structural and kinetic insights into the mechanism of 5-hydroxyisourate hydrolase from <i>Klebsiella pneumoniae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 671-677. | 2.5 | 10 |
| 43 | Structure of trifunctional THI20 from yeast. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 784-791. | 2.5 | 19 |
| 44 | The <i>Leishmania donovani</i> UMP Synthase Is Essential for Promastigote Viability and Has an Unusual Tetrameric Structure That Exhibits Substrate-controlled Oligomerization. <i>Journal of Biological Chemistry</i> , 2011, 286, 20930-20941. | 1.6 | 38 |
| 45 | Structural and Mechanistic Studies on <i>Klebsiella pneumoniae</i> 2-Oxo-4-hydroxy-4-carboxy-5-ureidoimidazole Decarboxylase. <i>Journal of Biological Chemistry</i> , 2010, 285, 35446-35454. | 1.6 | 19 |
| 46 | High-Resolution Crystal Structures of <i>Streptococcus pneumoniae</i> Nicotinamidase with Trapped Intermediates Provide Insights into the Catalytic Mechanism and Inhibition by Aldehydes. <i>Biochemistry</i> , 2010, 49, 8803-8812. | 1.2 | 30 |
| 47 | Biochemical and Structural Characterization of a Ureidoglycine Aminotransferase in the <i>Klebsiella pneumoniae</i> Uric Acid Catabolic Pathway. <i>Biochemistry</i> , 2010, 49, 5975-5977. | 1.2 | 12 |
| 48 | Characterization of Nicotinamidases: Steady State Kinetic Parameters, Classwide Inhibition by Nicotinaldehydes, and Catalytic Mechanism. <i>Biochemistry</i> , 2010, 49, 10421-10439. | 1.2 | 51 |
| 49 | <i>Plasmodium falciparum</i> Sir2 is an NAD ⁺ -Dependent Deacetylase and an Acetyllysine-Dependent and Acetyllysine-Independent NAD ⁺ Glycohydrolase. <i>Biochemistry</i> , 2008, 47, 10227-10239. | 1.2 | 46 |
| 50 | A comparative molecular field analysis of the biotransformation of sulfides by <i>Rhodococcus erythropolis</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 31, 87-96. | 1.8 | 7 |
| 51 | Biotransformation of α -ketosulfides to produce chiral α -hydroxysulfoxides. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2003, 30, 292-301. | 1.4 | 17 |