

John B Bruning

List of Publications by Year in descending order

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90
papers

3,615
citations

218677

26
h-index

144013

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all docs

95
docs citations

95
times ranked

5280
citing authors

#	ARTICLE	IF	CITATIONS
1	Different Geometric Requirements for Cytochrome P450-Catalyzed Aliphatic Versus Aromatic Hydroxylation Results in Chemoselective Oxidation. <i>ACS Catalysis</i> , 2022, 12, 1258-1267.	11.2	14
2	An Altered Heme Environment in an Engineered Cytochrome P450 Enzyme Enables the Switch from Monooxygenase to Peroxygenase Activity. <i>ACS Catalysis</i> , 2022, 12, 1614-1625.	11.2	29
3	Structural insights into the antifungal drug target guanosine monophosphate synthase from <i>Aspergillus fumigatus</i> . <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 248-259.	2.3	2
4	A structural model of the human plasminogen and <i>Aspergillus fumigatus</i> enolase complex. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 1509-1520.	2.6	0
5	A comparison of the bacterial CYP51 cytochrome P450 enzymes from <i>Mycobacterium marinum</i> and <i>Mycobacterium tuberculosis</i> . <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2022, 221, 106097.	2.5	5
6	To Be, or Not to Be, an Inhibitor: A Comparison of Azole Interactions with and Oxidation by a Cytochrome P450 Enzyme. <i>Inorganic Chemistry</i> , 2022, 61, 236-245.	4.0	6
7	Nucleoside selectivity of <i>Aspergillus fumigatus</i> nucleoside diphosphate kinase. <i>FEBS Journal</i> , 2021, 288, 2398-2417.	4.7	6
8	Vanishing white matter: Eukaryotic initiation factor 2B model and the impact of missense mutations. <i>Molecular Genetics & Genomic Medicine</i> , 2021, 9, e1593.	1.2	17
9	A cell permeable bimeane-constrained PCNA-interacting peptide. <i>RSC Chemical Biology</i> , 2021, 2, 1499-1508.	4.1	5
10	Understanding the Mechanistic Requirements for Efficient and Stereoselective Alkene Epoxidation by a Cytochrome P450 Enzyme. <i>ACS Catalysis</i> , 2021, 11, 1995-2010.	11.2	30
11	TSC-insensitive Rheb mutations induce oncogenic transformation through a combination of constitutively active mTORC1 signalling and proteome remodelling. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4035-4052.	5.4	5
12	Simplified heavy-atom derivatization of protein structures via co-crystallization with the MAD tetragon tetrabromoterephthalic acid. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2021, 77, 156-162.	0.8	2
13	A turn-on fluorescent PCNA sensor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 41, 128031.	2.2	0
14	Approaches to Introduce Helical Structure in Cysteine-Containing Peptides with a Bimeane Group. <i>ChemBioChem</i> , 2021, 22, 2711-2720.	2.6	4
15	An antimony-phosphomolybdate microassay of ATPase activity through the detection of inorganic phosphate. <i>Analytical Biochemistry</i> , 2021, 623, 114170.	2.4	7
16	Immunogenicity study of engineered ferritins with C- and N-terminus insertion of Epstein-Barr nuclear antigen 1 epitope. <i>Vaccine</i> , 2021, 39, 4830-4841.	3.8	6
17	Engineering potassium activation into biosynthetic thiolase. <i>Biochemical Journal</i> , 2021, 478, 3047-3062.	3.7	1
18	Acquired JAK2 mutations confer resistance to JAK inhibitors in cell models of acute lymphoblastic leukemia. <i>Npj Precision Oncology</i> , 2021, 5, 75.	5.4	10

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19	Constitutive JAK/STAT signaling is the primary mechanism of resistance to JAKi in TYK2-rearranged acute lymphoblastic leukemia. <i>Cancer Letters</i> , 2021, 512, 28-37.	7.2	8
20	The Stereoselective Oxidation of para -Substituted Benzenes by a Cytochrome P450 Biocatalyst. <i>Chemistry - A European Journal</i> , 2021, 27, 14765-14777.	3.3	6
21	The therapeutic potential of inhibiting PPAR β phosphorylation to treat type 2 diabetes. <i>Journal of Biological Chemistry</i> , 2021, 297, 101030.	3.4	35
22	Inhibition of <i>Mycobacterium tuberculosis</i> Dethiobiotin Synthase (<i>Mt</i> DTBS): Toward Next-Generation Antituberculosis Agents. <i>ACS Chemical Biology</i> , 2021, 16, 2339-2347.	3.4	6
23	Unlocking the PIP-box: A peptide library reveals interactions that drive high-affinity binding to human PCNA. <i>Journal of Biological Chemistry</i> , 2021, 296, 100773.	3.4	9
24	Derivatization of Protein Crystals with I3C using Random Microseed Matrix Screening. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
25	PPAR α and β Ligand Design: Honing the Traditional Empirical Method with a More Holistic Overview. , 2021, , 111-178.		0
26	Targeting PCNA with Peptide Mimetics for Therapeutic Purposes. <i>ChemBioChem</i> , 2020, 21, 442-450.	2.6	24
27	Investigation of the requirements for efficient and selective cytochrome P450 monooxygenase catalysis across different reactions. <i>Journal of Inorganic Biochemistry</i> , 2020, 203, 110913.	3.5	22
28	Biophysical Techniques for Distinguishing Ligand Binding Modes in Cytochrome P450 Monooxygenases. <i>Biochemistry</i> , 2020, 59, 1038-1050.	2.5	20
29	Structural insights into the role of the acid-alcohol pair of residues required for dioxygen activation in cytochrome P450 enzymes. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 583-596.	2.6	26
30	d-Alanine \rightarrow d-alanine ligase as a model for the activation of ATP-grasp enzymes by monovalent cations. <i>Journal of Biological Chemistry</i> , 2020, 295, 7894-7904.	3.4	21
31	Targeting Unconventional Pathways in Pursuit of Novel Antifungals. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 621366.	3.5	12
32	A comparison of steroid and lipid binding cytochrome P450s from <i>Mycobacterium marinum</i> and <i>Mycobacterium tuberculosis</i> . <i>Journal of Inorganic Biochemistry</i> , 2020, 209, 111116.	3.5	12
33	Sulfonamide-Based Inhibitors of Biotin Protein Ligase as New Antibiotic Leads. <i>ACS Chemical Biology</i> , 2019, 14, 1990-1997.	3.4	5
34	An aldo-keto reductase with 2-keto-l-gulonate reductase activity functions in l-tartaric acid biosynthesis from vitamin C in <i>Vitis vinifera</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 15932-15946.	3.4	14
35	Obtaining Crystals of PPAR β Ligand Binding Domain Bound to Small Molecules. <i>Methods in Molecular Biology</i> , 2019, 1966, 253-260.	0.9	3
36	The characterisation of two members of the cytochrome P450 CYP150 family: CYP150A5 and CYP150A6 from <i>Mycobacterium marinum</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 925-934.	2.4	4

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37	Unique Polypharmacology Nuclear Receptor Modulator Blocks Inflammatory Signaling Pathways. ACS Chemical Biology, 2019, 14, 1051-1062.	3.4	8
38	Shooting three inflammatory targets with a single bullet: Novel multi-targeting anti-inflammatory glitazones. European Journal of Medicinal Chemistry, 2019, 167, 562-582.	5.5	33
39	The role of N-terminal heterocycles in hydrogen bonding to Î±-chymotrypsin. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 396-399.	2.2	2
40	Structure, Mechanism, and Inhibition of <i>Aspergillus fumigatus</i> Thioredoxin Reductase. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	28
41	Combining random microseed matrix screening and the magic triangle for the efficient structure solution of a potential lysin from bacteriophage P68. Acta Crystallographica Section D: Structural Biology, 2019, 75, 670-681.	2.3	3
42	Structural and functional characterisation of the cytochrome P450 enzyme CYP268A2 from <i>Mycobacterium marinum</i> . Biochemical Journal, 2018, 475, 705-722.	3.7	13
43	Structure of <i>Aspergillus fumigatus</i> Cytosolic Thiolase: Trapped Tetrahedral Reaction Intermediates and Activation by Monovalent Cations. ACS Catalysis, 2018, 8, 1973-1989.	11.2	4
44	Crystal Structure of Bovine Alpha-Chymotrypsin in Space Group P65. Crystals, 2018, 8, 460.	2.2	4
45	Precipitantâ€‘ligand exchange technique reveals the ADP binding mode in <i>Mycobacterium tuberculosis</i> dethiobiotin synthetase. Acta Crystallographica Section D: Structural Biology, 2018, 74, 965-972.	2.3	5
46	<i>Mycobacterium tuberculosis</i> Dethiobiotin Synthetase Facilitates Nucleoside Triphosphate Promiscuity through Alternate Binding Modes. ACS Catalysis, 2018, 8, 10774-10783.	11.2	7
47	Chemical Crosslinking Mass Spectrometry Reveals the Conformational Landscape of the Activation Helix of PPARÎ³; a Model for Ligand-Dependent Antagonism. Structure, 2018, 26, 1431-1439.e6.	3.3	24
48	Cytochrome P450 CYP199A4 from <i>Rhodospseudomonas palustris</i> Catalyzes Heteroatom Dealkylations, Sulfoxidation, and Amide and Cyclic Hemiacetal Formation. ACS Catalysis, 2018, 8, 5915-5927.	11.2	27
49	Rational Design of a 310-Helical PIP-Box Mimetic Targeting PCNA, the Human Sliding Clamp. Chemistry - A European Journal, 2018, 24, 11238-11238.	3.3	0
50	PPARÎ³ in Complex with an Antagonist and Inverse Agonist: a Tumble and Trap Mechanism of the Activation Helix. IScience, 2018, 5, 69-79.	4.1	40
51	Rational Design of a 3 ₁₀ -Helical PIPâ€‘Box Mimetic Targeting PCNA, the Human Sliding Clamp. Chemistry - A European Journal, 2018, 24, 11325-11331.	3.3	16
52	Structural and Dynamic Elucidation of a Non-acid PPARÎ³ Partial Agonist: SR1988. Nuclear Receptor Research, 2018, 5, .	2.5	5
53	Structure of the sliding clamp from the fungal pathogen <i>Aspergillus fumigatus</i> (Afum PCNA) and interactions with Human p21. FEBS Journal, 2017, 284, 985-1002.	4.7	11
54	Mechanisms Governing Precise Protein Biotinylation. Trends in Biochemical Sciences, 2017, 42, 383-394.	7.5	18

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55	X-ray crystal structure of rivoglitazone bound to PPAR γ and PPAR subtype selectivity of TZDs. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1981-1991.	2.4	15
56	Structure-Activity Relationship of 2,4-Dichloro-N-(3,5-dichloro-4-(quinolin-3-yloxy)phenyl)benzenesulfonamide (INT131) Analogs for PPAR γ -Targeted Antidiabetics. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4584-4593.	6.4	22
57	Expressing a moth abcc2 gene in transgenic Drosophila causes susceptibility to Bt Cry1Ac without requiring a cadherin-like protein receptor. <i>Insect Biochemistry and Molecular Biology</i> , 2017, 80, 61-70.	2.7	44
58	HDX reveals the conformational dynamics of DNA sequence specific VDR co-activator interactions. <i>Nature Communications</i> , 2017, 8, 923.	12.8	39
59	A mechanistic study on the inhibition of α -chymotrypsin by a macrocyclic peptidomimetic aldehyde. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6970-6978.	2.8	11
60	PPARG Post-translational Modifications Regulate Bone Formation and Bone Resorption. <i>EBioMedicine</i> , 2016, 10, 174-184.	6.1	64
61	SR2067 Reveals a Unique Kinetic and Structural Signature for PPAR γ Partial Agonism. <i>ACS Chemical Biology</i> , 2016, 11, 273-283.	3.4	34
62	Review of the Structural and Dynamic Mechanisms of PPAR γ Partial Agonism. <i>PPAR Research</i> , 2015, 2015, 1-15.	2.4	151
63	p21 Exploits Residue Tyr151 as a Tether for High-Affinity PCNA Binding. <i>Biochemistry</i> , 2015, 54, 3483-3493.	2.5	26
64	Pharmacological repression of PPAR γ promotes osteogenesis. <i>Nature Communications</i> , 2015, 6, 7443.	12.8	99
65	CYP199A4 catalyses the efficient demethylation and demethenylation of para-substituted benzoic acid derivatives. <i>RSC Advances</i> , 2015, 5, 52007-52018.	3.6	28
66	New insights into the evolutionary history of plant sorbitol dehydrogenase. <i>BMC Plant Biology</i> , 2015, 15, 101.	3.6	26
67	Structural mechanism for signal transduction in RXR nuclear receptor heterodimers. <i>Nature Communications</i> , 2015, 6, 8013.	12.8	101
68	Human Variants in the Neuronal Basic Helix-Loop-Helix/Per-Arnt-Sim (bHLH/PAS) Transcription Factor Complex NPAS4/ARNT2 Disrupt Function. <i>PLoS ONE</i> , 2014, 9, e85768.	2.5	22
69	Characterization of human variants in obesity-related SIM1 protein identifies a hot-spot for dimerization with the partner protein ARNT2. <i>Biochemical Journal</i> , 2014, 461, 403-412.	3.7	10
70	Structure, Activity, and Inhibition of the Carboxyltransferase β -Subunit of Acetyl Coenzyme A Carboxylase (AccD6) from <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 6122-6132.	3.2	18
71	Macrocyclic Protease Inhibitors with Reduced Peptide Character. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7828-7831.	13.8	26
72	Redefining the Role of the Quaternary Shift in <i>Bacillus stearothermophilus</i> Phosphofructokinase. <i>Biochemistry</i> , 2013, 52, 5421-5429.	2.5	5

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73	Rare variants in single-minded 1 (SIM1) are associated with severe obesity. <i>Journal of Clinical Investigation</i> , 2013, 123, 3042-3050.	8.2	135
74	Loss-of-function mutations in SIM1 contribute to obesity and Prader-Willi-like features. <i>Journal of Clinical Investigation</i> , 2013, 123, 3037-3041.	8.2	105
75	Structure of the Apo Form of <i>Bacillus stearothermophilus</i> Phosphofructokinase. <i>Biochemistry</i> , 2012, 51, 769-775.	2.5	8
76	Structure of the <i>Mycobacterium tuberculosis</i> -Alanine: -Alanine Ligase, a Target of the Antituberculosis Drug -Cycloserine. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 291-301.	3.2	121
77	Antidiabetic actions of a non-agonist PPAR β ligand blocking Cdk5-mediated phosphorylation. <i>Nature</i> , 2011, 477, 477-481.	27.8	484
78	DNA binding alters coactivator interaction surfaces of the intact VDR-RXR complex. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 556-563.	8.2	185
79	The TB Structural Genomics Consortium: A decade of progress. <i>Tuberculosis</i> , 2011, 91, 155-172.	1.9	39
80	Coupling of receptor conformation and ligand orientation determine graded activity. <i>Nature Chemical Biology</i> , 2010, 6, 837-843.	8.0	121
81	Redefining the Role of the Quaternary Shift in the Allosteric Inhibition of <i>Bacillus stearothermophilus</i> Phosphofructokinase. <i>Biophysical Journal</i> , 2010, 98, 39a.	0.5	0
82	Structural Insights into the Mechanism of the Allosteric Transitions of <i>Mycobacterium tuberculosis</i> cAMP Receptor Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 36581-36591.	3.4	39
83	NF κ B selectivity of estrogen receptor ligands revealed by comparative crystallographic analyses. <i>Nature Chemical Biology</i> , 2008, 4, 241-247.	8.0	149
84	Prediction of the tissue-specificity of selective estrogen receptor modulators by using a single biochemical method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7171-7176.	7.1	87
85	Elemental Isomerism: A Boron-Nitrogen Surrogate for a Carbon-Carbon Double Bond Increases the Chemical Diversity of Estrogen Receptor Ligands. <i>Chemistry and Biology</i> , 2007, 14, 659-669.	6.0	66
86	Structural plasticity in the oestrogen receptor ligand-binding domain. <i>EMBO Reports</i> , 2007, 8, 563-568.	4.5	125
87	Structural plasticity in the oestrogen receptor ligand-binding domain. <i>EMBO Reports</i> , 2007, 8, 610-610.	4.5	1
88	Partial Agonists Activate PPAR β Using a Helix 12 Independent Mechanism. <i>Structure</i> , 2007, 15, 1258-1271.	3.3	321
89	Structural and Thermodynamic Analysis of Human PCNA with Peptides Derived from DNA Polymerase- β p66 Subunit and Flap Endonuclease-1. <i>Structure</i> , 2004, 12, 2209-2219.	3.3	190
90	JAK2 Alterations in Acute Lymphoblastic Leukemia: Molecular Insights for Superior Precision Medicine Strategies. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	11