

Brian Bennett

List of Publications by Year in descending order

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48
papers

1,062
citations

623734

14
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434195

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49
all docs

49
docs citations

49
times ranked

1772
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigations of Bis(alkylthiocarbamato)copper Linkage Isomers. <i>Inorganic Chemistry</i> , 2022, 61, 7715-7719.	4.0	2
2	Insight into the Maturation Process of the Nitrile Hydratase Active Site. <i>Inorganic Chemistry</i> , 2021, 60, 5432-5435.	4.0	2
3	The flexible N-terminus of BchL autoinhibits activity through interaction with its [4Fe-4S] cluster and released upon ATP binding. <i>Journal of Biological Chemistry</i> , 2021, 296, 100107.	3.4	4
4	Identification of an Intermediate Species along the Nitrile Hydratase Reaction Pathway by EPR Spectroscopy. <i>Biochemistry</i> , 2021, , .	2.5	1
5	Examination of the Catalytic Role of the Axial Cystine Ligand in the Co-Type Nitrile Hydratase from <i>Pseudonocardia thermophila</i> JCM 3095. <i>Catalysts</i> , 2021, 11, 1381.	3.5	1
6	Increased formation of reactive oxygen species during tumor growth: Ex vivo low-temperature EPR and in vivo bioluminescence analyses. <i>Free Radical Biology and Medicine</i> , 2020, 147, 167-174.	2.9	15
7	The Fe-type nitrile hydratase from <i>Rhodococcus equi</i> TG328-2 forms an alpha-activator protein complex. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 903-911.	2.6	4
8	Mitochondria-targeted magnolol inhibits OXPHOS, proliferation, and tumor growth via modulation of energetics and autophagy in melanoma cells. <i>Cancer Treatment and Research Communications</i> , 2020, 25, 100210.	1.7	16
9	Structural basis for the hydrolytic dehalogenation of the fungicide chlorothalonil. <i>Journal of Biological Chemistry</i> , 2020, 295, 8668-8677.	3.4	4
10	Magnolia extract is effective for the chemoprevention of oral cancer through its ability to inhibit mitochondrial respiration at complex I. <i>Cell Communication and Signaling</i> , 2020, 18, 58.	6.5	16
11	Substrate recognition induces sequential electron transfer across subunits in the nitrogenase-like DPOR complex. <i>Journal of Biological Chemistry</i> , 2020, 295, 13630-13639.	3.4	6
12	Trapping of a Putative Intermediate in the Cytochrome <i>c</i> Nitrite Reductase (ccNiR)-Catalyzed Reduction of Nitrite: Implications for the ccNiR Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2019, 141, 13358-13371.	13.7	17
13	Insights into the catalytic mechanism of a bacterial hydrolytic dehalogenase that degrades the fungicide chlorothalonil. <i>Journal of Biological Chemistry</i> , 2019, 294, 13411-13420.	3.4	3
14	Cellular maturation of an iron-type nitrile hydratase interrogated using EPR spectroscopy. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 1105-1113.	2.6	3
15	Low-Temperature EPR Spectroscopy as a Probe-Free Technique for Monitoring Oxidants Formed in Tumor Cells and Tissues: Implications in Drug Resistance and OXPHOS-Targeted Therapies. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 89-98.	1.8	12
16	Tricarbonylrhenium(I) Complexes of Dinucleating Redox-Active Pincer Ligands. <i>Organometallics</i> , 2018, 37, 989-1000.	2.3	12
17	Teaching the basics of reactive oxygen species and their relevance to cancer biology: Mitochondrial reactive oxygen species detection, redox signaling, and targeted therapies. <i>Redox Biology</i> , 2018, 15, 347-362.	9.0	155
18	Analyzing the function of the insert region found between the $\hat{1}$ and $\hat{2}$ -subunits in the eukaryotic nitrile hydratase from <i>Monosiga brevicollis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2018, 657, 1-7.	3.0	2

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19	Detection of mitochondria-generated reactive oxygen species in cells using multiple probes and methods: Potentials, pitfalls, and the future. <i>Journal of Biological Chemistry</i> , 2018, 293, 10363-10380.	3.4	80
20	<i>Sdha</i> +/- Rats Display Minimal Muscle Pathology Without Significant Behavioral or Biochemical Abnormalities. <i>Journal of Neuropathology and Experimental Neurology</i> , 2018, 77, 665-672.	1.7	10
21	Mito-Apocynin Prevents Mitochondrial Dysfunction, Microglial Activation, Oxidative Damage, and Progressive Neurodegeneration in MitoPark Transgenic Mice. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 1048-1066.	5.4	107
22	Multiple States of Nitrile Hydratase from <i>Rhodococcus equi</i> TG328-2: Structural and Mechanistic Insights from Electron Paramagnetic Resonance and Density Functional Theory Studies. <i>Biochemistry</i> , 2017, 56, 3068-3077.	2.5	9
23	The iron-type nitrile hydratase activator protein is a GTPase. <i>Biochemical Journal</i> , 2017, 474, 247-258.	3.7	15
24	Biocompatible Copper Oxide Nanoparticle Composites from Cellulose and Chitosan: Facile Synthesis, Unique Structure, and Antimicrobial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42503-42515.	8.0	62
25	A cobalt-containing eukaryotic nitrile hydratase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 107-112.	2.3	12
26	Increasing tetrahydrobiopterin in cardiomyocytes adversely affects cardiac redox state and mitochondrial function independently of changes in NO production. <i>Free Radical Biology and Medicine</i> , 2016, 93, 1-11.	2.9	7
27	Potentially diagnostic electron paramagnetic resonance spectra elucidate the underlying mechanism of mitochondrial dysfunction in the deoxyguanosine kinase deficient rat model of a genetic mitochondrial DNA depletion syndrome. <i>Free Radical Biology and Medicine</i> , 2016, 92, 141-151.	2.9	16
28	EPR Methods for Biological Cu(II). <i>Methods in Enzymology</i> , 2015, 563, 341-361.	1.0	14
29	Correlations between the Electronic Properties of <i>Shewanella oneidensis</i> Cytochrome <i>c</i> Nitrite Reductase (ccNiR) and Its Structure: Effects of Heme Oxidation State and Active Site Ligation. <i>Biochemistry</i> , 2015, 54, 3749-3758.	2.5	9
30	Inhibition of the <i>dapE</i> -Encoded <i>N</i> -Succinyl-L-diaminopimelic Acid Desuccinylase from <i>Neisseria meningitidis</i> by Captopril. <i>Biochemistry</i> , 2015, 54, 4834-4844.	2.5	17
31	<i>Shewanella oneidensis</i> Cytochrome <i>c</i> Nitrite Reductase (ccNiR) Does Not Disproportionate Hydroxylamine to Ammonia and Nitrite, Despite a Strongly Favorable Driving Force. <i>Biochemistry</i> , 2014, 53, 2136-2144.	2.5	11
32	Dilution of dipolar interactions in a spin-labeled, multimeric metalloenzyme for DEER studies. <i>Journal of Inorganic Biochemistry</i> , 2014, 136, 40-46.	3.5	8
33	Responses of Mn ²⁺ speciation in <i>Deinococcus radiodurans</i> and <i>Escherichia coli</i> to ¹³⁷ Cs-radiation by advanced paramagnetic resonance methods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5945-5950.	7.1	63
34	Electron Distribution within the Cytochrome <i>c</i> Nitrite Reductase Hemes as a Function of Applied Potential: a Spectroelectrochemical Analysis. <i>FASEB Journal</i> , 2013, 27, 1b63.	0.5	0
35	Spin Hamiltonian Parameters for Cu(II) Prion Peptide Complexes from L-Band Electron Paramagnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 1814-1823.	13.7	11
36	Avoiding premature oxidation during the binding of Cu(II) to a dithiolate site in BsSCO. A rapid freeze-quench EPR study. <i>FEBS Letters</i> , 2011, 585, 861-864.	2.8	12

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37	EPR of Cu ²⁺ Prion Protein Constructs at 2 GHz Using the g _{eff} Region to Characterize Nitrogen Ligation. <i>Biophysical Journal</i> , 2009, 96, 3354-3362.	0.5	15
38	Substrate Binding Preferences and p <i>K_a</i> Determinations of a Nitrile Hydratase Model Complex: Variable Solvent Coordination to [(btmp-TASN)Fe]OTf. <i>Inorganic Chemistry</i> , 2009, 48, 2300-2308.	4.0	13
39	The Metallo- β -lactamase GOB Is a Mono-Zn(II) Enzyme with a Novel Active Site. <i>Journal of Biological Chemistry</i> , 2007, 282, 18286-18293.	3.4	70
40	Asp-120 Locates Zn ²⁺ for Optimal Metallo- β -lactamase Activity. <i>Journal of Biological Chemistry</i> , 2007, 282, 18276-18285.	3.4	40
41	Both Nucleophile and Substrate Bind to the Catalytic Fe(II)-Center in the Type-II Methionyl Aminopeptidase from <i>Pyrococcus furiosus</i> . <i>Inorganic Chemistry</i> , 2005, 44, 1160-1162.	4.0	21
42	Evaluation of the influence of a thioether substituent on the solid state and solution properties of N3S-ligated copper(II) complexes. <i>Dalton Transactions</i> , 2003, , 3111-3116.	3.3	13
43	Structurally Distinct Active Sites in the Copper(II)-Substituted Aminopeptidases from <i>Aeromonas proteolytica</i> and <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2002, 124, 13025-13034.	13.7	34
44	Spectroscopic Characterisation of an Aconitase (AcnA) of <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1995, 233, 317-326.	0.2	16
45	Multiple States of the Molybdenum Centre of Dimethylsulphoxide Reductase from <i>Rhodobacter Capsulatus</i> Revealed by EPR Spectroscopy. <i>FEBS Journal</i> , 1994, 225, 321-331.	0.2	84
46	Redox-related activation and deactivation of <i>E. coli</i> nitrate reductase: kinetic and spectroscopic studies. <i>Biochemical Society Transactions</i> , 1994, 22, 78S-78S.	3.4	3
47	E.p.r. characterisation of the molybdenum centre of <i>Rhodobacter capsulatus</i> dimethylsulphoxide reductase: new signals on reduction with Na ₂ S ₂ O ₄ . <i>Biochemical Society Transactions</i> , 1994, 22, 285S-285S.	3.4	7
48	Roles of molybdenum, FAD and iron-sulphur domains in molybdenum-containing hydroxylases: molecular genetic, kinetic and spectroscopic studies. <i>Biochemical Society Transactions</i> , 1991, 19, 260S-260S.	3.4	4