

Julia J Griese

List of Publications by Year in descending order

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28
papers

943
citations

567281

15
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

1396
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and mechanism of a bacterial light-regulated cyclic nucleotide phosphodiesterase. <i>Nature</i> , 2009, 459, 1015-1018.	27.8	249
2	Crystal structure, biochemical and cellular activities demonstrate separate functions of MTH1 and MTH2. <i>Nature Communications</i> , 2015, 6, 7871.	12.8	96
3	Structure and DNA binding activity of the mouse condensin hinge domain highlight common and diverse features of SMC proteins. <i>Nucleic Acids Research</i> , 2010, 38, 3454-3465.	14.5	82
4	Solving a new R2lox protein structure by microcrystal electron diffraction. <i>Science Advances</i> , 2019, 5, eaax4621.	10.3	65
5	Xenobiotic Reductase A in the Degradation of Quinoline by <i>Pseudomonas putida</i> 86: Physiological Function, Structure and Mechanism of 8-Hydroxycoumarin Reduction. <i>Journal of Molecular Biology</i> , 2006, 361, 140-152.	4.2	55
6	Direct observation of structurally encoded metal discrimination and ether bond formation in a heterodinuclear metalloprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17189-17194.	7.1	49
7	Electronic Structural Flexibility of Heterobimetallic Mn/Fe Cofactors: R2lox and R2c Proteins. <i>Journal of the American Chemical Society</i> , 2014, 136, 13399-13409.	13.7	37
8	Crystal Structure of an Anti-Ang2 CrossFab Demonstrates Complete Structural and Functional Integrity of the Variable Domain. <i>PLoS ONE</i> , 2013, 8, e61953.	2.5	30
9	Structural Basis for Oxygen Activation at a Heterodinuclear Manganese/Iron Cofactor. <i>Journal of Biological Chemistry</i> , 2015, 290, 25254-25272.	3.4	29
10	Characterization of Oxygen Bridged Manganese Model Complexes Using Multifrequency ¹⁷ O-Hyperfine EPR Spectroscopies and Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13904-13921.	2.6	27
11	Photodynamics of blue-light-regulated phosphodiesterase BlrP1 protein from <i>Klebsiella pneumoniae</i> and its photoreceptor BLUF domain. <i>Chemical Physics</i> , 2008, 354, 130-141.	1.9	26
12	Structure and DNA-binding activity of the <i>Pyrococcus furiosus</i> SMC protein hinge domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 558-568.	2.6	25
13	Divergent assembly mechanisms of the manganese/iron cofactors in R2lox and R2c proteins. <i>Journal of Inorganic Biochemistry</i> , 2016, 162, 164-177.	3.5	24
14	Assembly of nonheme Mn/Fe active sites in heterodinuclear metalloproteins. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 759-774.	2.6	23
15	Key Structural Motifs Balance Metal Binding and Oxidative Reactivity in a Heterobimetallic Mn/Fe Protein. <i>Journal of the American Chemical Society</i> , 2020, 142, 5338-5354.	13.7	23
16	Protonation State of MnFe and FeFe Cofactors in a Ligand-Binding Oxidase Revealed by X-ray Absorption, Emission, and Vibrational Spectroscopy and QM/MM Calculations. <i>Inorganic Chemistry</i> , 2016, 55, 9869-9885.	4.0	15
17	The <i>Bacillus anthracis</i> class Ib ribonucleotide reductase subunit NrdF intrinsically selects manganese over iron. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 571-582.	2.6	15
18	Driving Protein Conformational Changes with Light: Photoinduced Structural Rearrangement in a Heterobimetallic Oxidase. <i>Journal of the American Chemical Society</i> , 2018, 140, 1471-1480.	13.7	11

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19	Redox-induced structural changes in the di-iron and di-manganese forms of <i>Bacillus anthracis</i> ribonucleotide reductase subunit NrdF suggest a mechanism for gating of radical access. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 849-861.	2.6	9
20	X-ray reduction correlates with soaking accessibility as judged from four non-crystallographically related diiron sites. <i>Metallomics</i> , 2012, 4, 894.	2.4	8
21	Ether cross-link formation in the R2-like ligand-binding oxidase. <i>Journal of Biological Chemistry</i> , 2018, 23, 879-886.	2.6	8
22	DuoMab: a novel CrossMab-based IgG-derived antibody format for enhanced antibody-dependent cell-mediated cytotoxicity. <i>MAbs</i> , 2019, 11, 1402-1414.	5.2	8
23	Chemical flexibility of heterobimetallic Mn/Fe cofactors: R2lox and R2c proteins. <i>Journal of Biological Chemistry</i> , 2019, 294, 18372-18386.	3.4	8
24	Assembly of a heterodinuclear Mn/Fe cofactor is coupled to tyrosine-valine ether cross-link formation in the R2-like ligand-binding oxidase. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 211-221.	2.6	7
25	The bacterial iron sensor IdeR recognizes its DNA targets by indirect readout. <i>Nucleic Acids Research</i> , 2021, 49, 10120-10135.	14.5	6
26	Location-specific quantification of protein-bound metal ions by X-ray anomalous dispersion: Q-XAD. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 764-771.	2.3	5
27	Comparative structural analysis provides new insights into the function of R2-like ligand-binding oxidase. <i>FEBS Letters</i> , 2022, 596, 1600-1610.	2.8	2
28	Fate of oxygen species from O ₂ activation at dimetal cofactors in an oxidase enzyme revealed by ⁵⁷ Fe nuclear resonance X-ray scattering and quantum chemistry. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 148060.	1.0	1