

Martin T Stiebritz

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

822
citations

430874

18
h-index

501196

28
g-index

40
all docs

40
docs citations

40
times ranked

824
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogenases and oxygen. <i>Chemical Science</i> , 2012, 3, 1739.	7.4	87
2	Activation and reduction of carbon dioxide by nitrogenase iron proteins. <i>Nature Chemical Biology</i> , 2017, 13, 147-149.	8.0	52
3	Ambient conversion of CO ₂ to hydrocarbons by biogenic and synthetic [Fe ₄ S ₄] clusters. <i>Nature Catalysis</i> , 2018, 1, 444-451.	34.4	51
4	Theoretical Study of Dioxygen Induced Inhibition of [FeFe]-Hydrogenase. <i>Inorganic Chemistry</i> , 2009, 48, 7127-7140.	4.0	50
5	Inaccessibility of the $\frac{1}{4}$ -hydride species in [FeFe] hydrogenases. <i>Chemical Science</i> , 2014, 5, 215-221.	7.4	48
6	Regioselectivity of H Cluster Oxidation. <i>Journal of the American Chemical Society</i> , 2011, 133, 20588-20603.	13.7	47
7	A Unifying Structural and Electronic Concept for Hmd and [FeFe] Hydrogenase Active Sites. <i>Inorganic Chemistry</i> , 2010, 49, 5818-5823.	4.0	40
8	Probing the coordination and function of Fe ₄ S ₄ modules in nitrogenase assembly protein NifB. <i>Nature Communications</i> , 2018, 9, 2824.	12.8	40
9	The VEP1 gene (At4g24220) encodes a short-chain dehydrogenase/reductase with 3-oxo- $\Delta^4,5$ -steroid Δ^5 -reductase activity in <i>Arabidopsis thaliana</i> L. <i>Biochimie</i> , 2009, 91, 517-525.	2.6	39
10	Analysis of differences in oxygen sensitivity of Fe-S clusters. <i>Dalton Transactions</i> , 2013, 42, 8729.	3.3	31
11	Evidence of substrate binding and product release via belt-sulfur mobilization of the nitrogenase cofactor. <i>Nature Catalysis</i> , 2022, 5, 443-454.	34.4	31
12	Kinetic Modeling of Hydrogen Conversion at [Fe] Hydrogenase Active-Site Models. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4806-4817.	2.6	24
13	Tuning Electron Flux through Nitrogenase with Methanogen Iron Protein Homologues. <i>Chemistry - A European Journal</i> , 2017, 23, 16152-16156.	3.3	24
14	X-Ray Crystallographic Analysis of NifB with a Full Complement of Clusters: Structural Insights into the Radical SAM-Dependent Carbide Insertion During Nitrogenase Cofactor Assembly. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2364-2370.	13.8	23
15	An enquiry into theoretical bioinorganic chemistry: How heuristic is the character of present-day quantum chemical methods?. <i>Faraday Discussions</i> , 2011, 148, 119-135.	3.2	22
16	Electric-field effects on the [FeFe]-hydrogenase active site. <i>Chemical Communications</i> , 2013, 49, 8099.	4.1	22
17	Activation Barriers of Oxygen Transformation at the Active Site of [FeFe] Hydrogenases. <i>Inorganic Chemistry</i> , 2014, 53, 11890-11902.	4.0	22
18	Oxygen Coordination to the Active Site of Hmd in Relation to [FeFe] Hydrogenase. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1163-1171.	2.0	18

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19	MUMBO: a protein-design approach to crystallographic model building and refinement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 648-658.	2.5	17
20	Structure-Property Relationships of Fe ₄ S ₄ Clusters. <i>ChemPlusChem</i> , 2013, 78, 1082-1098.	2.8	17
21	Reactivity of [Fe ₄ S ₄] Clusters toward C1 Substrates: Mechanism, Implications, and Potential Applications. <i>Accounts of Chemical Research</i> , 2019, 52, 1168-1176.	15.6	15
22	Kinetic Consequences of Introducing a Proximal Selenocysteine Ligand into Cytochrome P450cam. <i>Biochemistry</i> , 2015, 54, 6692-6703.	2.5	14
23	Tracing the incorporation of the ϵ -ninth sulfur into the nitrogenase cofactor precursor with selenite and tellurite. <i>Nature Chemistry</i> , 2021, 13, 1228-1234.	13.6	12
24	Strategies Towards Capturing Nitrogenase Substrates and Intermediates via Controlled Alteration of Electron Fluxes. <i>Chemistry - A European Journal</i> , 2019, 25, 2389-2395.	3.3	11
25	Structural Analysis of a Nitrogenase Iron Protein from <i>Methanosarcina acetivorans</i> : Implications for CO ₂ Capture by a Surface-Exposed [Fe ₄ S ₄] Cluster. <i>MBio</i> , 2019, 10, .	4.1	10
26	Structural and Mechanistic Insights into CO ₂ Activation by Nitrogenase Iron Protein. <i>Chemistry - A European Journal</i> , 2019, 25, 13078-13082.	3.3	8
27	Computational Design of a Chain-Specific Tetracycline Repressor Heterodimer. <i>Journal of Molecular Biology</i> , 2010, 403, 371-385.	4.2	7
28	A role for [Fe ₄ S ₄] clusters in tRNA recognition—a theoretical study. <i>Nucleic Acids Research</i> , 2014, 42, 5426-5435.	14.5	7
29	Binding of Reactive Oxygen Species at Fe ₄ S ₄ Cubane Clusters. <i>Chemistry - A European Journal</i> , 2015, 21, 19081-19089.	3.3	7
30	Computational Methods for Modeling Metalloproteins. <i>Methods in Molecular Biology</i> , 2019, 1876, 245-266.	0.9	5
31	Mackinawite-Supported Reduction of C ₁ Substrates into Prebiotically Relevant Precursors. <i>ChemSystemsChem</i> , 2022, 4, .	2.6	4
32	Current Understanding of the Biosynthesis of the Unique Nitrogenase Cofactor Core. <i>Structure and Bonding</i> , 2018, , 15-31.	1.0	2
33	X-Ray Crystallographic Analysis of NifB with a Full Complement of Clusters: Structural Insights into the Radical SAM-Dependent Carbide Insertion During Nitrogenase Cofactor Assembly. <i>Angewandte Chemie</i> , 2021, 133, 2394-2400.	2.0	2
34	MetREx: A protein design approach for the exploration of sequence-reactivity relationships in metalloenzymes. <i>Journal of Computational Chemistry</i> , 2015, 36, 553-563.	3.3	1
35	Assembly and Function of Nitrogenase. , 2021, , 155-184.		1
36	Frontispiece: Tuning Electron Flux through Nitrogenase with Methanogen Iron Protein Homologues. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0

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37	Frontispiece: Structural and Mechanistic Insights into CO ₂ Activation by Nitrogenase Iron Protein. Chemistry - A European Journal, 2019, 25, .	3.3	0