Martin T Stiebritz

List of Publications by Year
in descending order

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	Evidence of substrate binding and product release via belt-sulfur mobilization of the nitrogenase cofactor. Nature Catalysis, 2022, 5, 443-454.	34.4	31
2	Mackinawiteâ€Supported Reduction of C₁ Substrates into Prebiotically Relevant Precursors. ChemSystemsChem, 2022, 4, .	2.6	4
3	Xâ€Ray Crystallographic Analysis of NifB with a Full Complement of Clusters: Structural Insights into the Radical SAMâ€Dependent Carbide Insertion During Nitrogenase Cofactor Assembly. Angewandte Chemie - International Edition, 2021, 60, 2364-2370.	13.8	23
4	Xâ€Ray Crystallographic Analysis of NifB with a Full Complement of Clusters: Structural Insights into the Radical SAMâ€Dependent Carbide Insertion During Nitrogenase Cofactor Assembly. Angewandte Chemie, 2021, 133, 2394-2400.	2.0	2
5	Tracing the incorporation of the â€œninth sulfurâ€•into the nitrogenase cofactor precursor with selenite and tellurite. Nature Chemistry, 2021, 13, 1228-1234.	13.6	12
6	Assembly and Function of Nitrogenase. , 2021, , 155-184.		1
7	Structural and Mechanistic Insights into CO 2 Activation by Nitrogenase Iron Protein. Chemistry - A European Journal, 2019, 25, 13078-13082.	3.3	8
8	Structural Analysis of a Nitrogenase Iron Protein from Methanosarcina acetivorans: Implications for CO ₂ Capture by a Surface-Exposed [Fe ₄ S ₄] Cluster. MBio, 2019, 10, .	4.1	10
9	Frontispiece: Structural and Mechanistic Insights into CO₂ Activation by Nitrogenase Iron Protein. Chemistry - A European Journal, 2019, 25, .	3.3	0
10	Reactivity of [Fe₄S₄] Clusters toward C1 Substrates: Mechanism, Implications, and Potential Applications. Accounts of Chemical Research, 2019, 52, 1168-1176.	15.6	15
11	Strategies Towards Capturing Nitrogenase Substrates and Intermediates via Controlled Alteration of Electron Fluxes. Chemistry - A European Journal, 2019, 25, 2389-2395.	3.3	11
12	Computational Methods for Modeling Metalloproteins. Methods in Molecular Biology, 2019, 1876, 245-266.	0.9	5
13	Current Understanding of the Biosynthesis of the Unique Nitrogenase Cofactor Core. Structure and Bonding, 2018, , 15-31.	1.0	2
14	Ambient conversion of CO2 to hydrocarbons by biogenic and synthetic [Fe4S4] clusters. Nature Catalysis, 2018, 1, 444-451.	34.4	51
15	Probing the coordination and function of Fe4S4 modules in nitrogenase assembly protein NifB. Nature Communications, 2018, 9, 2824.	12.8	40
16	Frontispiece: Tuning Electron Flux through Nitrogenase with Methanogen Iron Protein Homologues. Chemistry - A European Journal, 2017, 23, .	3.3	0
17	Activation and reduction of carbon dioxide by nitrogenase iron proteins. Nature Chemical Biology, 2017, 13, 147-149.	8.0	52
18	Tuning Electron Flux through Nitrogenase with Methanogen Iron Protein Homologues. Chemistry - A European Journal, 2017, 23, 16152-16156.	3.3	24

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19	Binding of Reactive Oxygen Species at Feï£¿S Cubane Clusters. Chemistry - A European Journal, 2015, 21, 19081-19089.	3.3	7
20	MetREx: A protein design approach for the exploration of sequenceâ€•reactivity relationships in metalloenzymes. Journal of Computational Chemistry, 2015, 36, 553-563.	3.3	1
21	Kinetic Consequences of Introducing a Proximal Selenocysteine Ligand into Cytochrome P450cam. Biochemistry, 2015, 54, 6692-6703.	2.5	14
22	Activation Barriers of Oxygen Transformation at the Active Site of [FeFe] Hydrogenases. Inorganic Chemistry, 2014, 53, 11890-11902.	4.0	22
23	A role for [Fe4S4] clusters in tRNA recognitionâ€"a theoretical study. Nucleic Acids Research, 2014, 42, 5426-5435.	14.5	7
24	Inaccessibility of the Î¼-hydride species in [FeFe] hydrogenases. Chemical Science, 2014, 5, 215-221.	7.4	48
25	Electric-field effects on the [FeFe]-hydrogenase active site. Chemical Communications, 2013, 49, 8099.	4.1	22
26	Analysis of differences in oxygen sensitivity of Feâ€"S clusters. Dalton Transactions, 2013, 42, 8729.	3.3	31
27	Kinetic Modeling of Hydrogen Conversion at [Fe] Hydrogenase Active-Site Models. Journal of Physical Chemistry B, 2013, 117, 4806-4817.	2.6	24
28	Structureâ€"Property Relationships of Fe₄S₄ Clusters. ChemPlusChem, 2013, 78, 1082-1098.	2.8	17
29	Hydrogenases and oxygen. Chemical Science, 2012, 3, 1739.	7.4	87
30	An enquiry into theoretical bioinorganic chemistry: How heuristic is the character of present-day quantum chemical methods?. Faraday Discussions, 2011, 148, 119-135.	3.2	22
31	Regioselectivity of H Cluster Oxidation. Journal of the American Chemical Society, 2011, 133, 20588-20603.	13.7	47
32	Oxygen Coordination to the Active Site of Hmd in Relation to [FeFe] Hydrogenase. European Journal of Inorganic Chemistry, 2011, 2011, 1163-1171.	2.0	18
33	Computational Design of a Chain-Specific Tetracycline Repressor Heterodimer. Journal of Molecular Biology, 2010, 403, 371-385.	4.2	7
34	A Unifying Structural and Electronic Concept for Hmd and [FeFe] Hydrogenase Active Sites. Inorganic Chemistry, 2010, 49, 5818-5823.	4.0	40
35	Theoretical Study of Dioxygen Induced Inhibition of [FeFe]-Hydrogenase. Inorganic Chemistry, 2009, 48, 7127-7140.	4.0	50
36	The VEP1 gene (At4g24220) encodes a short-chain dehydrogenase/reductase with 3-oxo-Î"4,5-steroid 5Î²-reductase activity in Arabidopsis thaliana L.. Biochimie, 2009, 91, 517-525.	2.6	39

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37	MUMBO: a protein-design approach to crystallographic model building and refinement. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 648-658.	2.5	17