

# Martin T Stiebritz

## List of Publications by Year in descending order

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37  
papers

822  
citations

430442

18  
h-index

500791

28  
g-index

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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. <i>Nature Catalysis</i> , 2022, 5, 443-454.	16.1	31
2	Mackinawite-supported Reduction of C <sub>1</sub> Substrates into Prebiotically Relevant Precursors. <i>ChemSystemsChem</i> , 2022, 4, .	1.1	4
3	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.	7.2	23
4	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.	1.6	2
5	Tracing the incorporation of the ninth sulfur into the nitrogenase cofactor precursor with selenite and tellurite. <i>Nature Chemistry</i> , 2021, 13, 1228-1234.	6.6	12
6	Assembly and Function of Nitrogenase. , 2021, , 155-184.		1
7	Structural and Mechanistic Insights into CO <sub>2</sub> Activation by Nitrogenase Iron Protein. <i>Chemistry - A European Journal</i> , 2019, 25, 13078-13082.	1.7	8
8	Structural Analysis of a Nitrogenase Iron Protein from <i>Methanosarcina acetivorans</i> : Implications for CO <sub>2</sub> Capture by a Surface-Exposed [Fe <sub>4</sub> S <sub>4</sub> ] Cluster. <i>MBio</i> , 2019, 10, .	1.8	10
9	Frontispiece: Structural and Mechanistic Insights into CO <sub>2</sub> Activation by Nitrogenase Iron Protein. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	0
10	Reactivity of [Fe <sub>4</sub> S <sub>4</sub> ] Clusters toward C <sub>1</sub> Substrates: Mechanism, Implications, and Potential Applications. <i>Accounts of Chemical Research</i> , 2019, 52, 1168-1176.	7.6	15
11	Strategies Towards Capturing Nitrogenase Substrates and Intermediates via Controlled Alteration of Electron Fluxes. <i>Chemistry - A European Journal</i> , 2019, 25, 2389-2395.	1.7	11
12	Computational Methods for Modeling Metalloproteins. <i>Methods in Molecular Biology</i> , 2019, 1876, 245-266.	0.4	5
13	Current Understanding of the Biosynthesis of the Unique Nitrogenase Cofactor Core. <i>Structure and Bonding</i> , 2018, , 15-31.	1.0	2
14	Ambient conversion of CO <sub>2</sub> to hydrocarbons by biogenic and synthetic [Fe <sub>4</sub> S <sub>4</sub> ] clusters. <i>Nature Catalysis</i> , 2018, 1, 444-451.	16.1	51
15	Probing the coordination and function of Fe <sub>4</sub> S <sub>4</sub> modules in nitrogenase assembly protein NifB. <i>Nature Communications</i> , 2018, 9, 2824.	5.8	40
16	Frontispiece: Tuning Electron Flux through Nitrogenase with Methanogen Iron Protein Homologues. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
17	Activation and reduction of carbon dioxide by nitrogenase iron proteins. <i>Nature Chemical Biology</i> , 2017, 13, 147-149.	3.9	52
18	Tuning Electron Flux through Nitrogenase with Methanogen Iron Protein Homologues. <i>Chemistry - A European Journal</i> , 2017, 23, 16152-16156.	1.7	24

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19	Binding of Reactive Oxygen Species at Fe <sub>2</sub> S <sub>2</sub> Cubane Clusters. <i>Chemistry - A European Journal</i> , 2015, 21, 19081-19089.	1.7	7
20	MetREx: A protein design approach for the exploration of sequence-reactivity relationships in metalloenzymes. <i>Journal of Computational Chemistry</i> , 2015, 36, 553-563.	1.5	1
21	Kinetic Consequences of Introducing a Proximal Selenocysteine Ligand into Cytochrome P450cam. <i>Biochemistry</i> , 2015, 54, 6692-6703.	1.2	14
22	Activation Barriers of Oxygen Transformation at the Active Site of [FeFe] Hydrogenases. <i>Inorganic Chemistry</i> , 2014, 53, 11890-11902.	1.9	22
23	A role for [Fe <sub>4</sub> S <sub>4</sub> ] clusters in tRNA recognition—a theoretical study. <i>Nucleic Acids Research</i> , 2014, 42, 5426-5435.	6.5	7
24	Inaccessibility of the 1/4-hydride species in [FeFe] hydrogenases. <i>Chemical Science</i> , 2014, 5, 215-221.	3.7	48
25	Electric-field effects on the [FeFe]-hydrogenase active site. <i>Chemical Communications</i> , 2013, 49, 8099.	2.2	22
26	Analysis of differences in oxygen sensitivity of Fe-S clusters. <i>Dalton Transactions</i> , 2013, 42, 8729.	1.6	31
27	Kinetic Modeling of Hydrogen Conversion at [Fe] Hydrogenase Active-Site Models. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4806-4817.	1.2	24
28	Structure-Property Relationships of Fe <sub>4</sub> S <sub>4</sub> Clusters. <i>ChemPlusChem</i> , 2013, 78, 1082-1098.	1.3	17
29	Hydrogenases and oxygen. <i>Chemical Science</i> , 2012, 3, 1739.	3.7	87
30	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.	1.6	22
31	Regioselectivity of H Cluster Oxidation. <i>Journal of the American Chemical Society</i> , 2011, 133, 20588-20603.	6.6	47
32	Oxygen Coordination to the Active Site of Hmd in Relation to [FeFe] Hydrogenase. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1163-1171.	1.0	18
33	Computational Design of a Chain-Specific Tetracycline Repressor Heterodimer. <i>Journal of Molecular Biology</i> , 2010, 403, 371-385.	2.0	7
34	A Unifying Structural and Electronic Concept for Hmd and [FeFe] Hydrogenase Active Sites. <i>Inorganic Chemistry</i> , 2010, 49, 5818-5823.	1.9	40
35	Theoretical Study of Dioxygen Induced Inhibition of [FeFe]-Hydrogenase. <i>Inorganic Chemistry</i> , 2009, 48, 7127-7140.	1.9	50
36	The VEP1 gene (At4g24220) encodes a short-chain dehydrogenase/reductase with 3-oxo- $\Delta^4,5$ -steroid $\Delta^2$ -reductase activity in <i>Arabidopsis thaliana</i> L. <i>Biochimie</i> , 2009, 91, 517-525.	1.3	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