

# Andrew J Jasniewski

## List of Publications by Year in descending order

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31  
papers

1,199  
citations

516561

16  
h-index

501076

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of a Nitrogenase Iron Protein Substituted with a Synthetic $[\text{Fe}_4\text{Se}_4]$ Cluster. <i>Angewandte Chemie - International Edition</i> , 2022, , .	7.2	4
2	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
3	Second and Outer Coordination Sphere Effects in Nitrogenase, Hydrogenase, Formate Dehydrogenase, and CO Dehydrogenase. <i>Chemical Reviews</i> , 2022, 122, 11900-11973.	23.0	70
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 - International Edition</i> , 2021, 60, 2364-2370.	7.2	23
5	Characterization of a Mo-Nitrogenase Variant Containing a Citrate-Substituted Cofactor. <i>ChemBioChem</i> , 2021, 22, 151-155.	1.3	8
6	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
7	Nitrogenase: Structure, Function and Mechanism. , 2021, , 634-658.		0
8	Response to Comment on "Structural evidence for a dynamic metallocofactor during $\text{N}_2$ reduction by Mo-nitrogenase" Science, 2021, 371, .	6.0	19
9	Artificial Metalloproteins with Dinuclear Iron-Hydroxido Centers. <i>Journal of the American Chemical Society</i> , 2021, 143, 2384-2393.	6.6	10
10	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
11	A Mo-Nitrogenase Variant Containing a Citrate-Substituted Cofactor. <i>ChemBioChem</i> , 2020, 21, 1742-1748.	1.3	14
12	Structural evidence for a dynamic metallocofactor during $\text{N}_2$ reduction by Mo-nitrogenase. <i>Science</i> , 2020, 368, 1381-1385.	6.0	120
13	Reactivity, Mechanism, and Assembly of the Alternative Nitrogenases. <i>Chemical Reviews</i> , 2020, 120, 5107-5157.	23.0	128
14	Heterologous Expression and Engineering of the Nitrogenase Cofactor Biosynthesis Scaffold NifEN. <i>Angewandte Chemie</i> , 2020, 132, 6954-6960.	1.6	0
15	Heterologous Expression and Engineering of the Nitrogenase Cofactor Biosynthesis Scaffold NifEN. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6887-6893.	7.2	10
16	Identity and function of an essential nitrogen ligand of the nitrogenase cofactor biosynthesis protein NifB. <i>Nature Communications</i> , 2020, 11, 1757.	5.8	16
17	Spectroscopic Characterization of an Eight-Iron Nitrogenase Cofactor Precursor that Lacks the $9^{\text{th}}$ Sulfur. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14703-14707.	7.2	24
18	Spectroscopic Characterization of an Eight-Iron Nitrogenase Cofactor Precursor that Lacks the $9^{\text{th}}$ Sulfur. <i>Angewandte Chemie</i> , 2019, 131, 14845-14849.	1.6	6

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19	Electron Paramagnetic Resonance Spectroscopy of Metalloproteins. <i>Methods in Molecular Biology</i> , 2019, 1876, 197-211.	0.4	5
20	Dioxygen Activation by Nonheme Diiron Enzymes: Diverse Dioxygen Adducts, High-Valent Intermediates, and Related Model Complexes. <i>Chemical Reviews</i> , 2018, 118, 2554-2592.	23.0	342
21	Oxoiron(IV) complexes as synthons for the assembly of heterobimetallic centers such as the Fe/Mn active site of Class Ic ribonucleotide reductases. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 155-165.	1.1	6
22	Diiron monooxygenases in natural product biosynthesis. <i>Natural Product Reports</i> , 2018, 35, 646-659.	5.2	44
23	Radical S-Adenosyl-L-Methionine (SAM) Enzyme Involved in the Maturation of the Nitrogenase Cluster. <i>Methods in Enzymology</i> , 2018, 606, 341-361.	0.4	3
24	The Fe Protein: An Unsung Hero of Nitrogenase. <i>Inorganics</i> , 2018, 6, 25.	1.2	26
25	Spectroscopic and Reactivity Comparisons of a Pair of $\text{bTAML}$ Complexes with $\text{Fe}^{\text{V}}\text{-O}$ and $\text{Fe}^{\text{IV}}\text{-O}$ Units. <i>Inorganic Chemistry</i> , 2017, 56, 6352-6361.	1.9	51
26	Unprecedented $(\mu_4-1,1\text{-Peroxo})$ diferric Structure for the Ambiphilic Orange Peroxo Intermediate of the Nonheme $\text{N}_2$ -Oxygenase CmlI. <i>Journal of the American Chemical Society</i> , 2017, 139, 10472-10485.	6.6	51
27	X-ray absorption spectroscopic characterization of the diferric-peroxo intermediate of human deoxyhypusine hydroxylase in the presence of its substrate eIF5a. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 605-618.	1.1	21
28	A Carboxylate Shift Regulates Dioxygen Activation by the Diiron Nonheme $\text{H}^2$ -Hydroxylase CmlA upon Binding of a Substrate-Loaded Nonribosomal Peptide Synthetase. <i>Biochemistry</i> , 2016, 55, 5818-5831.	1.2	21
29	Spectroscopic Identification of an $\text{Fe}^{\text{III}}$ Center, not $\text{Fe}^{\text{IV}}$ , in the Crystalline $\text{Sc}^{\text{O}}\text{-O}^{\text{O}}\text{-Fe}$ Adduct Derived from $[\text{Fe}^{\text{IV}}(\text{O})(\text{TMC})]^{2+}$ . <i>Journal of the American Chemical Society</i> , 2015, 137, 3478-3481.	6.6	60
30	Triggering the Generation of an Iron(IV)-Oxo Compound and Its Reactivity toward Sulfides by $\text{Ru}^{\text{II}}$ Photocatalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 4624-4633.	6.6	72
31	Characterization of a Nitrogenase Iron Protein Substituted with a Synthetic $[\text{Fe}_4\text{Se}_4]$ Cluster. <i>Angewandte Chemie</i> , 0, , .	1.6	0