Kazuki Tanifuji

List of Publications by Year
in descending order

35 papers	812 citations	471371 17 h-index	501076 28 g-index
36 all docs	36 docs citations	36 times ranked	546 citing authors

#	Article	IF	Citations
1	Metalâ€“Sulfur Compounds in N₂ Reduction and Nitrogenase-Related Chemistry. Chemical Reviews, 2020, 120, 5194-5251.	23.0	117
2	Nitrogen reduction by the Fe sites of synthetic [Mo3S4Fe] cubes. Nature, 2022, 607, 86-90.	13.7	55
3	Tracing the â€˜ninth sulfurâ€™ of the nitrogenase cofactor via a semi-synthetic approach. Nature Chemistry, 2018, 10, 568-572.	6.6	54
4	Ambient conversion of CO2 to hydrocarbons by biogenic and synthetic [Fe4S4] clusters. Nature Catalysis, 2018, 1, 444-451.	16.1	51
5	Structure and Reactivity of an Asymmetric Synthetic Mimic of Nitrogenase Cofactor. Angewandte Chemie - International Edition, 2016, 55, 15633-15636.	7.2	44
6	Synthetic analogues of [Fe ₄ S ₄ (Cys) ₃ (His)] in hydrogenases and [Fe ₄ S ₄ (Cys) ₄] in HiPIP derived from all-ferric [Fe ₄ S ₄ {N(SiMe ₃) ₂ } <su. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12635-12640.	3.3	41
7	Probing the coordination and function of Fe4S4 modules in nitrogenase assembly protein NifB. Nature Communications, 2018, 9, 2824.	5.8	40
8	Synthetic Analogues of Nitrogenase Metallocofactors: Challenges and Developments. Chemistry - A European Journal, 2017, 23, 12425-12432.	1.7	36
9	Combining a Nitrogenase Scaffold and a Synthetic Compound into an Artificial Enzyme. Angewandte Chemie - International Edition, 2015, 54, 14022-14025.	7.2	35
10	Reduction of C₁ Substrates to Hydrocarbons by the Homometallic Precursor and Synthetic Mimic of the Nitrogenase Cofactor. Journal of the American Chemical Society, 2017, 139, 603-606.	6.6	33
11	Formation of a Nitrogenase Pâ€cluster [Fe₈S₇] Core via Reductive Fusion of Two Allâ€Ferric [Fe₄S₄] Clusters. Chemistry - an Asian Journal, 2012, 7, 2222-2224.	1.7	31
12	Evidence of substrate binding and product release via belt-sulfur mobilization of the nitrogenase cofactor. Nature Catalysis, 2022, 5, 443-454.	16.1	31
13	A Convenient Route to Synthetic Analogues of the Oxidized Form of High-Potential Ironâ€“Sulfur Proteins. Inorganic Chemistry, 2014, 53, 4000-4009.	1.9	27
14	A Comparative Analysis of the COâ€Reducing Activities of MoFe Proteins Containing Moâ€•and Vâ€Nitrogenase Cofactors. ChemBioChem, 2018, 19, 649-653.	1.3	27
15	Spectroscopic Characterization of an Eightâ€Iron Nitrogenase Cofactor Precursor that Lacks the â€œ9th Sulfurâ€• Angewandte Chemie - International Edition, 2019, 58, 14703-14707.	7.2	24
16	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.	7.2	23
17	Interconversion between [Fe₄S₄] and [Fe₂S₂] Clusters Bearing Amide Ligands. Inorganic Chemistry, 2016, 55, 4512-4518.	1.9	19
18	Identity and function of an essential nitrogen ligand of the nitrogenase cofactor biosynthesis protein NifB. Nature Communications, 2020, 11, 1757.	5.8	16

#	Article	IF	Citations
19	A Vâ€Nitrogenase Variant Containing a Citrateâ€Substituted Cofactor. ChemBioChem, 2020, 21, 1742-1748.	1.3	14
20	Structure and Reactivity of an Asymmetric Synthetic Mimic of Nitrogenase Cofactor. Angewandte Chemie, 2016, 128, 15862-15865.	1.6	13
21	Non-Centrosymmetric Coordination Polymer with a Highly Hindered Octahedral Copper Center Bridged by Mandelate. Inorganic Chemistry, 2012, 51, 4689-4693.	1.9	12
22	Tracing the incorporation of the â€œninth sulfurâ€• into the nitrogenase cofactor precursor with selenite and tellurite. Nature Chemistry, 2021, 13, 1228-1234.	6.6	12
23	Electrochemical Characterization of Isolated Nitrogenase Cofactors from <i>Azotobacter vinelandii</i>. ChemBioChem, 2020, 21, 1773-1778.	1.3	9
24	Characterization of a Moâ€Nitrogenase Variant Containing a Citrateâ€Substituted Cofactor. ChemBioChem, 2021, 22, 151-155.	1.3	8
25	Probing the All-Ferrous States of Methanogen Nitrogenase Iron Proteins. Jacs Au, 2021, 1, 119-123.	3.6	8
26	Spectroscopic Characterization of an Eightâ€Iron Nitrogenase Cofactor Precursor that Lacks the â€œ9 th Sulfurâ€• Angewandte Chemie, 2019, 131, 14845-14849.	1.6	6
27	Characterization of a Nitrogenase Iron Protein Substituted with a Synthetic [Fe ₄ Se ₄] Cluster. Angewandte Chemie - International Edition, 2022, , .	7.2	4
28	Radical S -Adenosyl- l -Methionine (SAM) Enzyme Involved in the Maturation of the Nitrogenase Cluster. Methods in Enzymology, 2018, 606, 341-361.	0.4	3
29	Electron Paramagnetic Resonance and Magnetic Circular Dichroism Spectra of the Nitrogenase M Cluster Precursor Suggest Sulfur Migration upon Oxidation: A Proposal for Substrate and Inhibitor Binding. ChemBioChem, 2020, 21, 1767-1772.	1.3	3
30	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.	1.6	2
31	Recent Advances in the Chemical Synthesis of Nitrogenase Model Clusters. Structure and Bonding, 2018, , 33-61.	1.0	1
32	Chemical Synthesis of an Asymmetric Mimic of the Nitrogenase Active Site. Methods in Molecular Biology, 2019, 1876, 229-244.	0.4	1
33	An EPR and VTVH MCD spectroscopic investigation of the nitrogenase assembly protein NifB. Journal of Biological Inorganic Chemistry, 2021, 26, 403-410.	1.1	1
34	Frontispiece: Synthetic Analogues of Nitrogenase Metallocofactors: Challenges and Developments. Chemistry - A European Journal, 2017, 23, .	1.7	0
35	Characterization of a Nitrogenase Iron Protein Substituted with a Synthetic [Fe ₄ Se ₄] Cluster. Angewandte Chemie, 0, , .	1.6	0