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Vanadium nitrogenase: a two-hit wonder?

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105	Nitrogenase Assembly and Catalysis Update based on the original article by Yilin Hu, Benedikt Schmid & Markus W. Ribbe, Encyclopedia of Inorganic Chemistry Second Edition, © 2005, John Wiley & Sons, Ltd. 2012 ,		
104	Recent developments in synthetic nitrogen fixation. 2012 , 108, 17		81
103	Metal atom lability in polynuclear complexes. 2013 , 52, 5006-12		16
102	Vanadium Biochemistry. 2013 , 323-342		1
101	Nitrogenase: a general hydrogenator of small molecules. 2013 , 49, 10893-907		61
100	Synthesis of open-shell, bimetallic Mn/Fe trinuclear clusters. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14448-58	16.4	22
99	Tracing the interstitial carbide of the nitrogenase cofactor during substrate turnover. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4982-3	16.4	55
98	Selective extraction of N ₂ from air by diarylimine iron complexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3511-27	16.4	16
97	Frontiers, opportunities, and challenges in biochemical and chemical catalysis of CO ₂ fixation. 2013 , 113, 6621-58		1415
96	Nitrogenase reduction of carbon-containing compounds. 2013 , 1827, 1102-11		68
95	(Ethoxy)[N ⁺ -(2-Hydroxy-5-methylbenzylidene)-2-hydroxybenzohydrazonato]oxovanadium(V) and [N ⁺ -(2-Hydroxy-5-methylbenzylidene)-2-hydroxybenzohydrazonato](methoxy)oxovanadium(V): Solvent Induced Syntheses, Characterization, and Crystal Structures. 2013 , 43, 1251-1255		1
94	Metal speciation in health and medicine represented by iron and vanadium. 2013 , 52, 12262-75		115
93	The stereochemistry and dynamics of the introduction of hydrogen atoms onto FeMo-co, the active site of nitrogenase. 2013 , 52, 13068-77		21
92	[N ⁺ -(2-Hydroxy-3-methoxybenzylidene)-2-methoxybenzohydrazonato](quinolin-8-olato)oxovanadium(V): Synthesis, Crystal Structure and Thermal Property. 2013 , 43, 873-876		2
91	Synthesis, Crystal Structure, and Thermal Property of [N ⁺ -(2-hydroxy-3-methoxybenzylidene)-2-methoxybenzohydrazonato](methanol)(methoxy)oxovanadium(V). 2014 , 44, 1251-1254		
90	Cleaving the n,n triple bond: the transformation of dinitrogen to ammonia by nitrogenases. 2014 , 14, 147-76		11
89	NifA- and CoxA-coordinated cowN expression sustains nitrogen fixation by Rhodobacter capsulatus in the presence of carbon monoxide. 2014 , 196, 3494-502		7

88	The Metal-Driven Biogeochemistry of Gaseous Compounds in the Environment. 2014 ,	2
87	Differential Reduction of CO ₂ by Molybdenum and Vanadium Nitrogenases. 2014 , 126, 11727-11730	13
86	Vanadate in structural biology. 2014 , 420, 16-23	22
85	Mechanism of nitrogen fixation by nitrogenase: the next stage. 2014 , 114, 4041-62	1073
84	Nitrogenase Complex. 2014 ,	2
83	Coordinated expression of fdxD and molybdenum nitrogenase genes promotes nitrogen fixation by <i>Rhodobacter capsulatus</i> in the presence of oxygen. 2014 , 196, 633-40	15
82	Differential reduction of CO ₂ by molybdenum and vanadium nitrogenases. 2014 , 53, 11543-6	54
81	A Unified Chemical Mechanism for Hydrogenation Reactions Catalyzed by Nitrogenase. 2014 , 249-288	1
80	Structural evaluation and position of the VO ₂ ⁺ ion in diaquacadmium(diaquabismalonato)cadmate: spectroscopic studies. 2014 , 145, 585-592	1
79	Structures and Functions of the Active Sites of Nitrogenases. 2014 , 199-224	4
78	Biosynthesis of nitrogenase metalloclusters. 2014 , 114, 4063-80	103
77	Crystal structure and insulin-like activity of a vanadium complex derived from N ² -(3,5-dichloro-2-hydroxybenzylidene)-2-methylbenzohydrazide. 2015 , 56, 1188-1192	1
76	Nitrogen Fixation. 2015 , 1-51	1
75	Recent Advances in Understanding Nitrogenases and How They Work. 2015 , 5-20	5
74	Nonoxido Vanadium(IV) Compounds Involving Dithiocarbazate-Based Tridentate ONS Ligands: Synthesis, Electronic and Molecular Structure, Spectroscopic and Redox Properties. 2015 , 54, 6203-15	33
73	The Fe ^V Cofactor of Vanadium Nitrogenase Contains an Interstitial Carbon Atom. 2015 , 127, 13447-13450	8
72	The Fe-V Cofactor of Vanadium Nitrogenase Contains an Interstitial Carbon Atom. 2015 , 54, 13249-52	62
71	Missing nitrogen fixation in the Benguela region. 2015 , 106, 30-41	10

70	New Vanadium Complexes with Aroylhydrazone Ligands: Synthesis, Structures, and Biochemical Properties. 2015 , 45, 117-121	5
69	Metal-mediated and metal-catalyzed reactions of isocyanides. 2015 , 115, 2698-779	371
68	Nitrogenase and homologs. 2015 , 20, 435-45	78
67	Uncoupling binding of substrate CO from turnover by vanadium nitrogenase. 2015 , 112, 13845-9	34
66	Non-oxido divanadium(IV) and divanadium(V) thiolate complexes with a new type of chalcogenide bridging motif. <i>Dalton Transactions</i> , 2015 , 44, 4468-73	4-3 6
65	Nitrogenase [eine Geschichte von Kohlenstoffatomen. 2016 , 128, 8356-8367	9
64	Nitrogenases-A Tale of Carbon Atom(s). 2016 , 55, 8216-26	46
63	A Vanadium Chalcogenide Dicubane. 2016 , 2016, 28-32	3
62	Chiral and achiral vanadyl lactates with vibrational circular dichroism: Toward the chiral metal cluster in nitrogenase. 2016 , 453, 501-506	10
61	Synthesis, Structure, and Biological Property of New Vanadium Complex With Aroylhydrazone Ligand. 2016 , 46, 118-122	
60	Biosynthesis of the Metalloclusters of Nitrogenases. 2016 , 85, 455-83	74
59	Proteome Profiling of the <i>Rhodobacter capsulatus</i> Molybdenum Response Reveals a Role of IscN in Nitrogen Fixation by Fe-Nitrogenase. 2015 , 198, 633-43	14
58	Synthesis, crystal structure, and insulin-like activity of dimeric vanadium complex derived from 4-bromo-N'-(2-hydroxy-5-methoxybenzylidene)benzohydrazide. 2017 , 47, 127-130	1
57	Regulation of Nitrogen Fixation in Photosynthetic Purple Nonsulfur Bacteria. 2017 , 1-25	1
56	Activation of CO by Vanadium Nitrogenase. 2017 , 12, 1985-1996	21
55	Structural Characterization of Chiral Vanadium(V) Compounds with V=N Bond. 2017 , 46, 844-847	4
54	Production and isolation of vanadium nitrogenase from <i>Azotobacter vinelandii</i> by molybdenum depletion. 2017 , 22, 161-168	27
53	Redox Interconversion of Non-Oxido Vanadium Complexes Accompanied by Acid-Base Chemistry of Thiol and Thiolate. 2017 , 56, 9055-9063	4

52	Synthesis, crystal structure, and insulin-like activity of [N [?] -(2-hydroxy-3-methoxybenzylidene)-2-methoxybenzohydrazonato](1,10-phenanthroline)oxovanadium(IV) methanol solvate. 2017 , 47, 1585-1589		6
51	The structure of vanadium nitrogenase reveals an unusual bridging ligand. 2017 , 13, 956-960		162
50	Exploring the effect of hydroxylic and non-hydroxylic solvents on the reaction of [VO(=diketonate)] with 2-aminobenzoylhydrazide in aerobic and anaerobic conditions. <i>Dalton Transactions</i> , 2017 , 46, 10963-10985	4-3	7
49	ATP-dependent substrate reduction at an [FeS] double-cubane cluster. 2018 , 115, 2994-2999		19
48	Hydrogen from Photo Fermentation. 2018 , 221-317		15
47	Evaluation of the Catalytic Relevance of the CO-Bound States of V-Nitrogenase. 2018 , 57, 3411-3414		16
46	Unusual Genomic Traits Suggest <i>Methylocystis bryophila</i> S285 to Be Well Adapted for Life in Peatlands. 2018 , 10, 623-628		13
45	Evaluation of the Catalytic Relevance of the CO-Bound States of V-Nitrogenase. 2018 , 130, 3469-3472		5
44	Mechanism of N Reduction Catalyzed by Fe-Nitrogenase Involves Reductive Elimination of H. 2018 , 57, 701-710		47
43	Exploring the alternatives of biological nitrogen fixation. 2018 , 10, 523-538		70
42	Electrocatalytic CO reduction catalyzed by nitrogenase MoFe and FeFe proteins. 2018 , 120, 104-109		29
41	Kinetic Understanding of N Reduction versus H Evolution at the E(4H) Janus State in the Three Nitrogenases. 2018 , 57, 5706-5714		25
40	Ecological Risks of Nanoparticles. 2018 , 429-452		4
39	Functional expression of an oxygen-labile nitrogenase in an oxygenic photosynthetic organism. 2018 , 8, 7380		21
38	Anionic Dinuclear Oxidovanadium(IV) Complexes with Azo Functionalized Tridentate Ligands and μ-Ethoxido Bridge Leading to an Unsymmetric Twisted Arrangement: Synthesis, X-ray Structure, Magnetic Properties, and Cytotoxicity. 2018 , 57, 5767-5781		25
37	Vanadium stimulates pepper plant growth and flowering, increases concentrations of amino acids, sugars and chlorophylls, and modifies nutrient concentrations. 2018 , 13, e0201908		30
36	Mo-, V-, and Fe-Nitrogenases Use a Universal Eight-Electron Reductive-Elimination Mechanism To Achieve N Reduction. 2019 , 58, 3293-3301		59
35	The Periodic Table's Impact on Bioinorganic Chemistry and Biology's Selective Use of Metal Ions. 2019 , 153-173		1

34	Structure and electrochemistry of proteins harboring iron-sulfur clusters of different nuclearities. Part V. Nitrogenases. 2019 , 398, 113004	2
33	Metalloproteins in the Biology of Heterocysts. 2019 , 9,	11
32	Nitrogenase: Metal Cluster Models. 2019 , 1-13	
31	Strategies Towards Capturing Nitrogenase Substrates and Intermediates via Controlled Alteration of Electron Fluxes. 2019 , 25, 2389-2395	8
30	Recent advances in nitrogen fixation upon vanadium complexes. 2019 , 381, 135-150	25
29	Regulation of nitrogen fixation from free-living organisms in soil and leaf litter of two tropical forests of the Guiana shield. 2020 , 450, 93-110	10
28	Electrochemical Characterization of Isolated Nitrogenase Cofactors from <i>Azotobacter vinelandii</i> . 2020 , 21, 1773-1778	5
27	Coordination mode variation of oximate in complexes of VO(OMe) ₂ ⁺ and VO ₂ ⁺ with biacetylmonoxime salicyloylhydrazone: Structural confirmation, properties and photocatalytic applications. 2020 , 502, 119344	
26	Dinitrogen Activation by a Heterometallic VFe Complex Derived from 1,1'-Bis(arylamido)vanadocene. 2020 , 2020, 1449-1455	4
25	CO as a substrate and inhibitor of H ₂ reduction for the Mo-, V-, and Fe-nitrogenase isozymes. 2020 , 213, 111278	8
24	Two-Stage Continuous Conversion of Carbon Monoxide to Ethylene by Whole Cells of <i>Azotobacter vinelandii</i> . 2020 , 86,	0
23	Reduction of Substrates by Nitrogenases. 2020 , 120, 5082-5106	90
22	The Spectroscopy of Nitrogenases. 2020 , 120, 5005-5081	65
21	Simultaneous formation of non-oxidovanadium(IV) and oxidovanadium(V) complexes incorporating phenol-based hydrazone ligands in aerobic conditions. 2020 , 44, 3700-3716	3
20	Promotion of biological nitrogen fixation activity of an anaerobic consortium using humin as an extracellular electron mediator. 2021 , 11, 6567	4
19	Protein binding and cytotoxic activities of monomeric and dimeric oxido-vanadium(V) salen complexes: Exploring the solution behavior of monoalkoxido-bound oxido-vanadium(V) complex. 2021 , 224, 111582	6
18	Nitrogenase-Dependent Hydrogen Production by Cyanobacteria. 2014 , 137-153	1
17	Synthesis, spectral and structural characterization of vanadium lactate, malate and citrate with large counter cation. 2020 , 1207, 127805	5

16	Multiple amino acid sequence alignment nitrogenase component 1: insights into phylogenetics and structure-function relationships. 2013 , 8, e72751	19
15	Comparing Molecular Mechanisms in Solar NH Production and Relations with CO Reduction. 2020 , 22,	6
14	Pan-Genome-Based Analysis as a Framework for Demarcating Two Closely Related Methanotroph Genera and. 2020 , 8,	5
13	The Conversion of Carbon Monoxide and Carbon Dioxide by Nitrogenases. 2021 ,	0
12	Chapter 25:Vanadium Catalysis Relevant to Nitrogenase. 2020 , 564-576	
11	Chapter 23:Vanadium in Catalytically Proceeding Natural Processes. 2020 , 535-547	
10	Ecology of the Diazotrophic Microbiome. 2020 , 81-99	
9	Paramagnetic resonance investigation of mono- and di-manganese-containing systems in biochemistry.. 2022 , 666, 315-372	
8	Vanadium stimulates growth and flower production in tomato without affecting seed germination. 2021 , 49, 12400	
7	Efficacy of a multi-dentate Schiff base and its vanadyl complex on various morphological and biochemical parameters of <i>Vigna radiata</i> L.. 1-11	
6	Effect of Titanium and Vanadium on Antioxidants Content and Productivity of Red Cabbage. 2022 , 8, 481	0
5	Tale of Three Molecular Nitrides: Mononuclear Vanadium (V) and (IV) Nitrides As Well As a Mixed-Valence Trivanadium Nitride Having a V ₃ N ₄ Double-Diamond Core. <i>Journal of the American Chemical Society</i> ,	16.4 0
4	On the evolution of coenzyme biosynthesis.	0
3	A review on catalysts for electrocatalytic and photocatalytic reduction of N ₂ to ammonia.	0
2	Enzymatic Fischer-Tropsch-Type Reactions.	0
1	Molecular Characterization of <i>Fischerella uthpalarensis</i> , the first subsection V cyanobiont from a tropical <i>Azolla</i> species containing dual nitrogenases.	0