

# Dennis R Dean

## List of Publications by Year in descending order

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113  
papers

12,093  
citations

18482

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115  
docs citations

115  
times ranked

5985  
citing authors

#	ARTICLE	IF	CITATIONS
1	A conformational role for NifW in the maturation of molybdenum nitrogenase P-cluster. <i>Chemical Science</i> , 2022, 13, 3489-3500.	7.4	7
2	The One-Electron Reduced Active-Site FeFe-Cofactor of Fe-Nitrogenase Contains a Hydride Bound to a Formally Oxidized Metal-Ion Core. <i>Inorganic Chemistry</i> , 2022, 61, 5459-5464.	4.0	12
3	<sc>AnfO</sc> controls fidelity of nitrogenase <sc>FeFe</sc> protein maturation by preventing misincorporation of <sc>FeV</sc>-cofactor. <i>Molecular Microbiology</i> , 2022, 117, 1080-1088.	2.5	6
4	The electronic structure of FeV-cofactor in vanadium-dependent nitrogenase. <i>Chemical Science</i> , 2021, 12, 6913-6922.	7.4	17
5	Comment on "Structural evidence for a dynamic metallocofactor during N <sub>2</sub> reduction by Mo-nitrogenase". <i>Science</i> , 2021, 371, .	12.6	29
6	Exploring the Role of the Central Carbide of the Nitrogenase Active-Site FeMo-cofactor through Targeted <sup>13</sup> C Labeling and ENDOR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 9183-9190.	13.7	13
7	Specificity of NifEN and VnfEN for the Assembly of Nitrogenase Active Site Cofactors in <i>Azotobacter vinelandii</i> . <i>MBio</i> , 2021, 12, e0156821.	4.1	18
8	CO as a substrate and inhibitor of H <sup>+</sup> reduction for the Mo-, V-, and Fe-nitrogenase isozymes. <i>Journal of Inorganic Biochemistry</i> , 2020, 213, 111278.	3.5	18
9	Electron Redistribution within the Nitrogenase Active Site FeMo-Cofactor During Reductive Elimination of H <sub>2</sub> to Achieve N≡N Triple-Bond Activation. <i>Journal of the American Chemical Society</i> , 2020, 142, 21679-21690.	13.7	32
10	Reduction of Substrates by Nitrogenases. <i>Chemical Reviews</i> , 2020, 120, 5082-5106.	47.7	234
11	Mo-, V-, and Fe-Nitrogenases Use a Universal Eight-Electron Reductive-Elimination Mechanism To Achieve N <sub>2</sub> Reduction. <i>Biochemistry</i> , 2019, 58, 3293-3301.	2.5	99
12	Time-Resolved EPR Study of H <sub>2</sub> Reductive Elimination from the Photoexcited Nitrogenase Janus E <sub>4</sub> (4H) Intermediate. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8823-8828.	2.6	12
13	The NifZ accessory protein has an equivalent function in maturation of both nitrogenase MoFe protein P-clusters. <i>Journal of Biological Chemistry</i> , 2019, 294, 6204-6213.	3.4	26
14	Biosynthesis of the nitrogenase active-site cofactor precursor NifB-co in <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25078-25086.	7.1	36
15	Mechanism of N <sub>2</sub> Reduction Catalyzed by Fe-Nitrogenase Involves Reductive Elimination of H <sub>2</sub> . <i>Biochemistry</i> , 2018, 57, 701-710.	2.5	80
16	Hydride Conformers of the Nitrogenase FeMo-cofactor Two-Electron Reduced State E <sub>2</sub> (2H), Assigned Using Cryogenic Intra Electron Paramagnetic Resonance Cavity Photolysis. <i>Inorganic Chemistry</i> , 2018, 57, 6847-6852.	4.0	29
17	Electrocatalytic CO <sub>2</sub> reduction catalyzed by nitrogenase MoFe and FeFe proteins. <i>Bioelectrochemistry</i> , 2018, 120, 104-109.	4.6	41
18	Application of affinity purification methods for analysis of the nitrogenase system from <i>Azotobacter vinelandii</i> . <i>Methods in Enzymology</i> , 2018, 613, 231-255.	1.0	13

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19	Kinetic Understanding of N <sub>2</sub> Reduction versus H <sub>2</sub> Evolution at the E <sub>4</sub> (4H) Janus State in the Three Nitrogenases. <i>Biochemistry</i> , 2018, 57, 5706-5714.	2.5	44
20	Sequential and differential interaction of assembly factors during nitrogenase MoFe protein maturation. <i>Journal of Biological Chemistry</i> , 2018, 293, 9812-9823.	3.4	34
21	Energy Transduction in Nitrogenase. <i>Accounts of Chemical Research</i> , 2018, 51, 2179-2186.	15.6	101
22	Keeping the nitrogen-fixation dream alive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3009-3011.	7.1	82
23	Photoinduced Reductive Elimination of H <sub>2</sub> from the Nitrogenase Dihydride (Janus) State Involves a FeMo-cofactor-H <sub>2</sub> Intermediate. <i>Inorganic Chemistry</i> , 2017, 56, 2233-2240.	4.0	42
24	Mechanism of Nitrogenase H <sub>2</sub> Formation by Metal-Hydride Protonation Probed by Mediated Electrocatalysis and H/D Isotope Effects. <i>Journal of the American Chemical Society</i> , 2017, 139, 13518-13524.	13.7	51
25	Negative cooperativity in the nitrogenase Fe protein electron delivery cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5783-E5791.	7.1	42
26	Exploring Electron/Proton Transfer and Conformational Changes in the Nitrogenase MoFe Protein and FeMo-cofactor Through Cryoreduction/EPR Measurements. <i>Israel Journal of Chemistry</i> , 2016, 56, 841-851.	2.3	13
27	CO <sub>2</sub> Reduction Catalyzed by Nitrogenase: Pathways to Formate, Carbon Monoxide, and Methane. <i>Inorganic Chemistry</i> , 2016, 55, 8321-8330.	4.0	47
28	Light-driven carbon dioxide reduction to methane by nitrogenase in a photosynthetic bacterium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10163-10167.	7.1	74
29	Reductive Elimination of H <sub>2</sub> Activates Nitrogenase to Reduce the N≡N Triple Bond: Characterization of the E <sub>4</sub> (4H) Janus Intermediate in Wild-Type Enzyme. <i>Journal of the American Chemical Society</i> , 2016, 138, 10674-10683.	13.7	131
30	Nitrogenase bioelectrocatalysis: heterogeneous ammonia and hydrogen production by MoFe protein. <i>Energy and Environmental Science</i> , 2016, 9, 2550-2554.	30.8	187
31	Evidence That the P <sub>i</sub> Release Event Is the Rate-Limiting Step in the Nitrogenase Catalytic Cycle. <i>Biochemistry</i> , 2016, 55, 3625-3635.	2.5	95
32	Reversible Photoinduced Reductive Elimination of H <sub>2</sub> from the Nitrogenase Dihydride State, the E <sub>4</sub> (4H) Janus Intermediate. <i>Journal of the American Chemical Society</i> , 2016, 138, 1320-1327.	13.7	60
33	Trading Places—Switching Frataxin Function by a Single Amino Acid Substitution within the [Fe-S] Cluster Assembly Scaffold. <i>PLoS Genetics</i> , 2015, 11, e1005192.	3.5	2
34	Identification of a Key Catalytic Intermediate Demonstrates That Nitrogenase Is Activated by the Reversible Exchange of N <sub>2</sub> for H <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2015, 137, 3610-3615.	13.7	99
35	Fe Protein-Independent Substrate Reduction by Nitrogenase MoFe Protein Variants. <i>Biochemistry</i> , 2015, 54, 2456-2462.	2.5	38
36	Mechanism of Nitrogen Fixation by Nitrogenase: The Next Stage. <i>Chemical Reviews</i> , 2014, 114, 4041-4062.	47.7	1,379

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37	Nitrite and Hydroxylamine as Nitrogenase Substrates: Mechanistic Implications for the Pathway of N <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2014, 136, 12776-12783.	13.7	33
38	A Confirmation of the Quench-Cryoannealing Relaxation Protocol for Identifying Reduction States of Freeze-Trapped Nitrogenase Intermediates. <i>Inorganic Chemistry</i> , 2014, 53, 3688-3693.	4.0	40
39	Nitrogenase: A Draft Mechanism. <i>Accounts of Chemical Research</i> , 2013, 46, 587-595.	15.6	328
40	Nitrogenase reduction of carbon-containing compounds. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 1102-1111.	1.0	91
41	On reversible H <sub>2</sub> loss upon N <sub>2</sub> binding to FeMo-cofactor of nitrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16327-16332.	7.1	98
42	Carbon dioxide reduction to methane and coupling with acetylene to form propylene catalyzed by remodeled nitrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19644-19648.	7.1	103
43	Unification of reaction pathway and kinetic scheme for N <sub>2</sub> reduction catalyzed by nitrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5583-5587.	7.1	59
44	Temperature Invariance of the Nitrogenase Electron Transfer Mechanism. <i>Biochemistry</i> , 2012, 51, 8391-8398.	2.5	12
45	Electron transfer in nitrogenase catalysis. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 19-25.	6.1	105
46	EXAFS and NRVS Reveal a Conformational Distortion of the FeMo-cofactor in the MoFe Nitrogenase Propargyl Alcohol Complex. <i>Journal of Inorganic Biochemistry</i> , 2012, 112, 85-92.	3.5	50
47	Electron Transfer within Nitrogenase: Evidence for a Deficit-Spending Mechanism. <i>Biochemistry</i> , 2011, 50, 9255-9263.	2.5	117
48	<sup>57</sup> Fe ENDOR Spectroscopy and <sup>57</sup> Fe Electron Inventory™ Analysis of the Nitrogenase E <sub>4</sub> Intermediate Suggest the Metal-Ion Core of FeMo-Cofactor Cycles Through Only One Redox Couple. <i>Journal of the American Chemical Society</i> , 2011, 133, 17329-17340.	13.7	75
49	Transcriptional Profiling of Nitrogen Fixation in <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 2011, 193, 4477-4486.	2.2	99
50	Coordination and fine-tuning of nitrogen fixation in <i>Azotobacter vinelandii</i> . <i>Molecular Microbiology</i> , 2011, 79, 1132-1135.	2.5	21
51	ENDOR/HYSCORE Studies of the Common Intermediate Trapped during Nitrogenase Reduction of N <sub>2</sub> H <sub>2</sub> , CH <sub>3</sub> N <sub>2</sub> H, and N <sub>2</sub> H <sub>4</sub> Support an Alternating Reaction Pathway for N <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2011, 133, 11655-11664.	13.7	83
52	Steric Control of the Hi-CO MoFe Nitrogenase Complex Revealed by Stopped-Flow Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 272-275.	13.8	25
53	Molybdenum Nitrogenase Catalyzes the Reduction and Coupling of CO to Form Hydrocarbons*. <i>Journal of Biological Chemistry</i> , 2011, 286, 19417-19421.	3.4	99
54	Is Mo Involved in Hydride Binding by the Four-Electron Reduced (E <sub>4</sub> ) Intermediate of the Nitrogenase MoFe Protein?. <i>Journal of the American Chemical Society</i> , 2010, 132, 2526-2527.	13.7	79

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55	Genome Sequence of <i>Azotobacter vinelandii</i> , an Obligate Aerobe Specialized To Support Diverse Anaerobic Metabolic Processes. <i>Journal of Bacteriology</i> , 2009, 191, 4534-4545.	2.2	265
56	A substrate channel in the nitrogenase MoFe protein. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1015-1022.	2.6	36
57	Trapping an Intermediate of Dinitrogen ( $N_2$ ) Reduction on Nitrogenase. <i>Biochemistry</i> , 2009, 48, 9094-9102.	2.5	66
58	Mechanism of Mo-Dependent Nitrogenase. <i>Annual Review of Biochemistry</i> , 2009, 78, 701-722.	11.1	561
59	Climbing Nitrogenase: Toward a Mechanism of Enzymatic Nitrogen Fixation. <i>Accounts of Chemical Research</i> , 2009, 42, 609-619.	15.6	336
60	Controlled Expression of <i>nif</i> and <i>isc</i> Iron-Sulfur Protein Maturation Components Reveals Target Specificity and Limited Functional Replacement between the Two Systems. <i>Journal of Bacteriology</i> , 2007, 189, 2854-2862.	2.2	76
61	Connecting nitrogenase intermediates with the kinetic scheme for $N_2$ reduction by a relaxation protocol and identification of the $N_2$ binding state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1451-1455.	7.1	113
62	Diazene ( $HNNH$ ) Is a Substrate for Nitrogenase: Insights into the Pathway of $N_2$ Reduction. <i>Biochemistry</i> , 2007, 46, 6784-6794.	2.5	106
63	In Vitro Activation of Apo-Aconitase Using a $[4Fe-4S]$ Cluster-Loaded Form of the IscU $[Fe^{\sim}S]$ Cluster Scaffolding Protein. <i>Biochemistry</i> , 2007, 46, 6812-6821.	2.5	101
64	Testing if the Interstitial Atom, $X$ , of the Nitrogenase Molybdenum-Iron Cofactor Is N or C: ENDOR, ESEEM, and DFT Studies of the $S = N_3$ Resting State in Multiple Environments. <i>Inorganic Chemistry</i> , 2007, 46, 11437-11449.	4.0	89
65	<i>NifX</i> and <i>NifEN</i> exchange <i>NifB</i> cofactor and the VK-cluster, a newly isolated intermediate of the iron-molybdenum cofactor biosynthetic pathway. <i>Molecular Microbiology</i> , 2007, 63, 177-192.	2.5	63
66	Alkyne substrate interaction within the nitrogenase MoFe protein. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1642-1648.	3.5	50
67	Breaking the $N_2$ triple bond: insights into the nitrogenase mechanism. <i>Dalton Transactions</i> , 2006, , 2277.	3.3	131
68	A methyl diazene ( $HNNCH_3$ )-derived species bound to the nitrogenase active-site FeMo cofactor: Implications for mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17113-17118.	7.1	84
69	Trapping H-Bound to the Nitrogenase FeMo-Cofactor Active Site during $H_2$ Evolution: Characterization by ENDOR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 6231-6241.	13.7	196
70	<i>NifS</i> -Mediated Assembly of $[4Fe^{\sim}4S]$ Clusters in the N- and C-Terminal Domains of the <i>NifU</i> Scaffold Protein. <i>Biochemistry</i> , 2005, 44, 12955-12969.	2.5	131
71	Substrate Interactions with the Nitrogenase Active Site. <i>Accounts of Chemical Research</i> , 2005, 38, 208-214.	15.6	199
72	Intermediates Trapped during Nitrogenase Reduction of $N_2$ , $CH_3NNH$ , and $H_2NNH_2$ . <i>Journal of the American Chemical Society</i> , 2005, 127, 14960-14961.	13.7	122

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73	Trapping a Hydrazine Reduction Intermediate on the Nitrogenase Active Site. <i>Biochemistry</i> , 2005, 44, 8030-8037.	2.5	96
74	Electron Inventory, Kinetic Assignment (En), Structure, and Bonding of Nitrogenase Turnover Intermediates with C <sub>2</sub> H <sub>2</sub> and CO. <i>Journal of the American Chemical Society</i> , 2005, 127, 15880-15890.	13.7	65
75	Substrate Interaction at an Iron-Sulfur Face of the FeMo-cofactor during Nitrogenase Catalysis. <i>Journal of Biological Chemistry</i> , 2004, 279, 53621-53624.	3.4	137
76	Localization of a Catalytic Intermediate Bound to the FeMo-cofactor of Nitrogenase. <i>Journal of Biological Chemistry</i> , 2004, 279, 34770-34775.	3.4	63
77	Iron-Sulfur Cluster Assembly. <i>Journal of Biological Chemistry</i> , 2004, 279, 19705-19711.	3.4	125
78	Substrate Interactions with Nitrogenase: Fe versus Mo. <i>Biochemistry</i> , 2004, 43, 1401-1409.	2.5	183
79	An Organometallic Intermediate during Alkyne Reduction by Nitrogenase. <i>Journal of the American Chemical Society</i> , 2004, 126, 9563-9569.	13.7	116
80	Formation of iron-sulfur clusters in bacteria: an emerging field in bioinorganic chemistry. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 166-173.	6.1	217
81	Localization of a Substrate Binding Site on the FeMo-Cofactor in Nitrogenase: Trapping Propargyl Alcohol with an $\alpha$ -70-Substituted MoFe Protein. <i>Biochemistry</i> , 2003, 42, 9102-9109.	2.5	93
82	VnfY Is Required for Full Activity of the Vanadium-Containing Dinitrogenase in <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 2003, 185, 2383-2386.	2.2	25
83	Q-Band ENDOR Studies of the Nitrogenase MoFe Protein under Turnover Conditions. <i>ACS Symposium Series</i> , 2003, , 150-178.	0.5	7
84	Reduction of short chain alkynes by a nitrogenase $\alpha$ -70Ala-substituted MoFe protein Based on the presentation given at Dalton Discussion No. 4, 10 <sup>th</sup> January 2002, Kloster Banz, Germany. Research supported by National Institutes of Health Grant R01-GM59087. <i>Dalton Transactions RSC</i> , 2002, , 802-807.	2.3	43
85	IscA, an Alternate Scaffold for Fe-S Cluster Biosynthesis. <i>Biochemistry</i> , 2001, 40, 14069-14080.	2.5	233
86	Stereospecificity of Acetylene Reduction Catalyzed by Nitrogenase. <i>Journal of the American Chemical Society</i> , 2001, 123, 1822-1827.	13.7	35
87	Interaction of Acetylene and Cyanide with the Resting State of Nitrogenase $\alpha$ -96-Substituted MoFe Proteins. <i>Biochemistry</i> , 2001, 40, 13816-13825.	2.5	45
88	Sulfur Transfer from IscS to IscU: The First Step in Iron-Sulfur Cluster Biosynthesis. <i>Journal of the American Chemical Society</i> , 2001, 123, 11103-11104.	13.7	179
89	Mechanistic Features and Structure of the Nitrogenase $\alpha$ -Gln195MoFe Protein. <i>Biochemistry</i> , 2001, 40, 1540-1549.	2.5	77
90	Competitive Substrate and Inhibitor Interactions at the Physiologically Relevant Active Site of Nitrogenase. <i>Journal of Biological Chemistry</i> , 2000, 275, 36104-36107.	3.4	58

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91	Isolation and Characterization of an Acetylene-resistant Nitrogenase. <i>Journal of Biological Chemistry</i> , 2000, 275, 11459-11464.	3.4	69
92	Characterization of an Intermediate in the Reduction of Acetylene by the Nitrogenase $\hat{\text{I}}\pm\text{-Gln195MoFe}$ Protein by Q-band EPR and $^{13}\text{C}, ^1\text{H}$ ENDOR. <i>Journal of the American Chemical Society</i> , 2000, 122, 5582-5587.	13.7	50
93	Construction and Characterization of a Heterodimeric Iron Protein: $\hat{\text{A}}$ Defining Roles for Adenosine Triphosphate in Nitrogenase Catalysis. <i>Biochemistry</i> , 2000, 39, 7221-7228.	2.5	10
94	IscU as a Scaffold for Iron $\hat{\text{A}}$ Sulfur Cluster Biosynthesis: $\hat{\text{A}}$ Sequential Assembly of $[2\text{Fe-2S}]$ and $[4\text{Fe-4S}]$ Clusters in IscU. <i>Biochemistry</i> , 2000, 39, 7856-7862.	2.5	419
95	Role of the IscU Protein in Iron $\hat{\text{A}}$ Sulfur Cluster Biosynthesis: $\hat{\text{A}}$ IscS-mediated Assembly of a $[\text{Fe}_2\text{S}_2]$ Cluster in IscU. <i>Journal of the American Chemical Society</i> , 2000, 122, 2136-2137.	13.7	121
96	Detection of a New Radical and FeMo-Cofactor EPR Signal during Acetylene Reduction by the $\hat{\text{I}}\pm\text{-H195Q}$ Mutant of Nitrogenase. <i>Journal of the American Chemical Society</i> , 1999, 121, 9457-9458.	13.7	28
97	The <i>Azotobacter vinelandii</i> NifEN Complex Contains Two Identical $[4\text{Fe-4S}]$ Clusters. <i>Biochemistry</i> , 1998, 37, 10420-10428.	2.5	80
98	Evidence for Coupled Electron and Proton Transfer in the $[8\text{Fe-7S}]$ Cluster of Nitrogenase. <i>Biochemistry</i> , 1998, 37, 11376-11384.	2.5	73
99	Catalytic and Biophysical Properties of a Nitrogenase Apo-MoFe Protein Produced by an <i>nifB</i> -Deletion Mutant of <i>Azotobacter vinelandii</i> . <i>Biochemistry</i> , 1998, 37, 12611-12623.	2.5	192
100	Role of Nucleotides in Nitrogenase Catalysis. <i>Accounts of Chemical Research</i> , 1997, 30, 260-266.	15.6	117
101	Evidence for Multiple Substrate-Reduction Sites and Distinct Inhibitor-Binding Sites from an Altered <i>Azotobacter vinelandii</i> Nitrogenase MoFe Protein. <i>Biochemistry</i> , 1997, 36, 4884-4894.	2.5	60
102	Nitrogenase iron-molybdenum cofactor binding site: Protein conformational changes associated with cofactor binding. <i>Tetrahedron</i> , 1997, 53, 11971-11984.	1.9	12
103	Involvement of the P Cluster in Intramolecular Electron Transfer within the Nitrogenase MoFe Protein. <i>Journal of Biological Chemistry</i> , 1995, 270, 27007-27013.	3.4	70
104	Characterization of the $\hat{\text{I}}^3$ Protein and Its Involvement in the Metallocluster Assembly and Maturation of Dinitrogenase from <i>Azotobacter vinelandii</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 24745-24752.	3.4	70
105	Role of the MoFe Protein $\alpha$ -Subunit Histidine-195 Residue in FeMo-cofactor Binding and Nitrogenase Catalysis. <i>Biochemistry</i> , 1995, 34, 2798-2808.	2.5	156
106	Mechanism for the Desulfurization of L-Cysteine Catalyzed by the <i>nifS</i> Gene Product. <i>Biochemistry</i> , 1994, 33, 4714-4720.	2.5	382
107	<i>nifU</i> Gene Product from <i>Azotobacter vinelandii</i> Is a Homodimer That Contains Two Identical $[2\text{Fe-2S}]$ Clusters. <i>Biochemistry</i> , 1994, 33, 13455-13463.	2.5	147
108	Role of the Iron $\hat{\text{A}}$ Molybdenum Cofactor Polypeptide Environment in <i>Azotobacter vinelandii</i> Molybdenum $\hat{\text{A}}$ Nitrogenase Catalysis. <i>ACS Symposium Series</i> , 1993, , 216-230.	0.5	8

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109	The nifU, nifS and nifV gene products are required for activity of all three nitrogenases of <i>Azotobacter vinelandii</i> . <i>Molecular Genetics and Genomics</i> , 1992, 231, 494-498.	2.4	120
110	Role for the nitrogenase MoFe protein $\hat{\pm}$ -subunit in FeMo-cofactor binding and catalysis. <i>Nature</i> , 1990, 343, 188-190.	27.8	130
111	Biogenesis of Molybdenum Cofactors. <i>Critical Reviews in Microbiology</i> , 1990, 17, 169-188.	6.1	56
112	Biochemical and genetic analysis of the nifUSVWZM cluster from <i>Azotobacter vinelandii</i> . <i>Molecular Genetics and Genomics</i> , 1989, 219, 49-57.	2.4	279
113	Nitrogen Fixation by <i>Azotobacter vinelandii</i> Strains Having Deletions in Structural Genes for Nitrogenase. <i>Science</i> , 1986, 232, 92-94.	12.6	137