

# Yilin Hu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121  
papers

4,647  
citations

40  
h-index

65  
g-index

132  
ext. papers

5,467  
ext. citations

12  
avg, IF

5.96  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 121 | Radical SAM-dependent formation of a nitrogenase cofactor core on NifB.. <i>Journal of Inorganic Biochemistry</i> , <b>2022</b> , 233, 111837   | 4.2  |           |
| 120 | Tracing the incorporation of the "ninth sulfur" into the nitrogenase cofactor precursor with selenite and tellurite. <i>Nature Chemistry</i> , <b>2021</b> , 13, 1228-1234  | 17.6 | 0         |
| 119 | Assembly and Function of Nitrogenase <b>2021</b> , 155-184  |      | 1         |
| 118 | Probing the All-Ferrous States of Methanogen Nitrogenase Iron Proteins. <i>Jacs Au</i> , <b>2021</b> , 1, 119-123   |      | 2         |
| 117 | An EPR and VTVH MCD spectroscopic investigation of the nitrogenase assembly protein NifB. <i>Journal of Biological Inorganic Chemistry</i> , <b>2021</b> , 26, 403-410  | 3.7  |           |
| 116 | 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> , <b>2021</b> , 60, 2364-2370 | 16.4 | 12        |
| 115 | Characterization of a Mo-Nitrogenase Variant Containing a Citrate-Substituted Cofactor. <i>ChemBioChem</i> , <b>2021</b> , 22, 151-155  | 3.8  | 1         |
| 114 | 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> , <b>2021</b> , 133, 2394-2400                        | 3.6  | 2         |
| 113 | Nitrogenase: Structure, Function and Mechanism <b>2021</b> , 634-658  |      |           |
| 112 | Response to Comment on "Structural evidence for a dynamic metallocofactor during N reduction by Mo-nitrogenase". <i>Science</i> , <b>2021</b> , 371,  | 33.3 | 7         |
| 111 | Structural evidence for a dynamic metallocofactor during N reduction by Mo-nitrogenase. <i>Science</i> , <b>2020</b> , 368, 1381-1385   | 33.3 | 57        |
| 110 | Reactivity, Mechanism, and Assembly of the Alternative Nitrogenases. <i>Chemical Reviews</i> , <b>2020</b> , 120, 5107-5156   | 15.1 | 56        |
| 109 | Heterologous Expression and Engineering of the Nitrogenase Cofactor Biosynthesis Scaffold NifEN. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6954-6960  | 3.6  |           |
| 108 | Heterologous Expression and Engineering of the Nitrogenase Cofactor Biosynthesis Scaffold NifEN. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6887-6893   | 16.4 | 6         |
| 107 | Current Understanding of the Biosynthetic and Catalytic Mechanisms of Mo-Nitrogenase <b>2020</b> , 332-348  |      |           |
| 106 | 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. <i>ChemBioChem</i> , <b>2020</b> , 21, 1767-1772              | 3.8  | 2         |
| 105 | A V-Nitrogenase Variant Containing a Citrate-Substituted Cofactor. <i>ChemBioChem</i> , <b>2020</b> , 21, 1742-1748   | 3.8  | 5         |

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|-----|--|------|----|
| 104 | Electrochemical Characterization of Isolated Nitrogenase Cofactors from <i>Azotobacter vinelandii</i> . <i>ChemBioChem</i> , <b>2020</b> , 21, 1773-1778                                   | 3.8  | 5  |
| 103 | Identity and function of an essential nitrogen ligand of the nitrogenase cofactor biosynthesis protein NifB. <i>Nature Communications</i> , <b>2020</b> , 11, 1757                         | 17.4 | 10 |
| 102 | Reactivity of [FeS] Clusters toward C1 Substrates: Mechanism, Implications, and Potential Applications. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1168-1176                 | 24.3 | 6  |
| 101 | Spectroscopic Characterization of an Eight-Iron Nitrogenase Cofactor Precursor that Lacks the "9 Sulfur". <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14703-14707 | 16.4 | 17 |
| 100 | Structural and Mechanistic Insights into CO Activation by Nitrogenase Iron Protein. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 13078-13082                                  | 4.8  | 2  |
| 99  | Structural Analysis of a Nitrogenase Iron Protein from <i>Methanosarcina acetivorans</i> : Implications for CO Capture by a Surface-Exposed [FeS] Cluster. <i>MBio</i> , <b>2019</b> , 10, | 7.8  | 5  |
| 98  | Spectroscopic Characterization of an Eight-Iron Nitrogenase Cofactor Precursor that Lacks the 9th Sulfur. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14845-14849                        | 3.6  | 6  |
| 97  | Strategies Towards Capturing Nitrogenase Substrates and Intermediates via Controlled Alteration of Electron Fluxes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 2389-2395    | 4.8  | 8  |
| 96  | Hydrogenases. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1876, 65-88  | 1.4  | 3  |
| 95  | Purification of Nitrogenase Proteins. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1876, 111-124  | 1.4  | 3  |
| 94  | Nitrogenases. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1876, 3-24   | 1.4  | 10 |
| 93  | Electron Paramagnetic Resonance Spectroscopy of Metalloproteins. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1876, 197-211   | 1.4  | 4  |
| 92  | Computational Methods for Modeling Metalloproteins. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1876, 245-266  | 1.4  | 4  |
| 91  | Tracing the 'ninth sulfur' of the nitrogenase cofactor via a semi-synthetic approach. <i>Nature Chemistry</i> , <b>2018</b> , 10, 568-572  | 17.6 | 41 |
| 90  | A VTVH MCD and EPR Spectroscopic Study of the Maturation of the "Second" Nitrogenase P-Cluster. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 4719-4725                                   | 5.1  | 9  |
| 89  | Evaluation of the Catalytic Relevance of the CO-Bound States of V-Nitrogenase. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3411-3414                              | 16.4 | 16 |
| 88  | Evaluation of the Catalytic Relevance of the CO-Bound States of V-Nitrogenase. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3469-3472   | 3.6  | 5  |
| 87  | A Comparative Analysis of the CO-Reducing Activities of MoFe Proteins Containing Mo- and V-Nitrogenase Cofactors. <i>ChemBioChem</i> , <b>2018</b> , 19, 649-653                           | 3.8  | 15 |

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|----|---|------|----|
| 86 | Characterization of an M-Cluster-Substituted Nitrogenase VFe Protein. <i>MBio</i> , <b>2018</b> , 9,  | 7.8  | 12 |
| 85 | The Fe Protein: An Unsung Hero of Nitrogenase. <i>Inorganics</i> , <b>2018</b> , 6, 25  | 2.9  | 19 |
| 84 | Probing the coordination and function of FeS modules in nitrogenase assembly protein NifB. <i>Nature Communications</i> , <b>2018</b> , 9, 2824   | 17.4 | 29 |
| 83 | Current Understanding of the Biosynthesis of the Unique Nitrogenase Cofactor Core. <i>Structure and Bonding</i> , <b>2018</b> , 15-31   | 0.9  | 2  |
| 82 | Reduction and Condensation of Aldehydes by the Isolated Cofactor of Nitrogenase. <i>ACS Central Science</i> , <b>2018</b> , 4, 1430-1435  | 16.8 | 11 |
| 81 | 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> , <b>2018</b> , 1, 444-451  | 36.5 | 29 |
| 80 | Radical S-Adenosyl-L-Methionine (SAM) Enzyme Involved in the Maturation of the Nitrogenase Cluster. <i>Methods in Enzymology</i> , <b>2018</b> , 606, 341-361   | 1.7  | 1  |
| 79 | Activation of CO by Vanadium Nitrogenase. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 1985-1996   | 4.5  | 21 |
| 78 | Reduction of C Substrates to Hydrocarbons by the Homometallic Precursor and Synthetic Mimic of the Nitrogenase Cofactor. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 603-606                   | 16.4 | 23 |
| 77 | Nitrogenase Assembly: Strategies and Procedures. <i>Methods in Enzymology</i> , <b>2017</b> , 595, 261-302  | 1.7  | 6  |
| 76 | Nitrogenase Cofactor Assembly: An Elemental Inventory. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 2834-2841   | 24.1 | 23 |
| 75 | Synthetic Analogues of Nitrogenase Metallocofactors: Challenges and Developments. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 12425-12432   | 4.8  | 26 |
| 74 | Activation and reduction of carbon dioxide by nitrogenase iron proteins. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 147-149   | 11.7 | 35 |
| 73 | Cluster assembly in nitrogenase. <i>Essays in Biochemistry</i> , <b>2017</b> , 61, 271-279  | 7.6  | 18 |
| 72 | Tuning Electron Flux through Nitrogenase with Methanogen Iron Protein Homologues. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16152-16156   | 4.8  | 18 |
| 71 | Assembly scaffold NifEN: A structural and functional homolog of the nitrogenase catalytic component. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9504-8 | 11.5 | 17 |
| 70 | Structure and Reactivity of an Asymmetric Synthetic Mimic of Nitrogenase Cofactor. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 15633-15636   | 16.4 | 33 |
| 69 | YedY: A Mononuclear Molybdenum Enzyme with a Redox-Active Ligand?. <i>ChemBioChem</i> , <b>2016</b> , 17, 453-458   | 3.8  | 8  |

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| 68 | Maturation of nitrogenase cofactor-the role of a class E radical SAM methyltransferase NifB. <i>Current Opinion in Chemical Biology</i> , <b>2016</b> , 31, 188-94  | 9.7  | 27 |
| 67 | Biosynthesis of the Metalloclusters of Nitrogenases. <i>Annual Review of Biochemistry</i> , <b>2016</b> , 85, 455-83  | 29.1 | 74 |
| 66 | Nitrogenase Eine Geschichte von Kohlenstoffatomen. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 8356-8367  | 3.6  | 9  |
| 65 | Nitrogenases-A Tale of Carbon Atom(s). <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8216-26   | 16.4 | 46 |
| 64 | Structure and Reactivity of an Asymmetric Synthetic Mimic of Nitrogenase Cofactor. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 15862-15865  | 3.6  | 10 |
| 63 | The in vivo hydrocarbon formation by vanadium nitrogenase follows a secondary metabolic pathway. <i>Nature Communications</i> , <b>2016</b> , 7, 13641  | 17.4 | 22 |
| 62 | Nitrogenase and homologs. <i>Journal of Biological Inorganic Chemistry</i> , <b>2015</b> , 20, 435-45   | 3.7  | 78 |
| 61 | Uncoupling binding of substrate CO from turnover by vanadium nitrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13845-9   | 11.5 | 34 |
| 60 | Refining the pathway of carbide insertion into the nitrogenase M-cluster. <i>Nature Communications</i> , <b>2015</b> , 6, 8034  | 17.4 | 55 |
| 59 | Identification and characterization of functional homologs of nitrogenase cofactor biosynthesis protein NifB from methanogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14829-33 | 11.5 | 45 |
| 58 | Cofactor specificity motifs and the induced fit mechanism in class I ketol-acid reductoisomerases. <i>Biochemical Journal</i> , <b>2015</b> , 468, 475-84   | 3.8  | 16 |
| 57 | Catalytic reduction of CN-, CO, and CO <sub>2</sub> by nitrogenase cofactors in lanthanide-driven reactions. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1219-22   | 16.4 | 48 |
| 56 | Combining a Nitrogenase Scaffold and a Synthetic Compound into an Artificial Enzyme. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14228-14231  | 3.6  | 9  |
| 55 | Widening the Product Profile of Carbon Dioxide Reduction by Vanadium Nitrogenase. <i>ChemBioChem</i> , <b>2015</b> , 16, 1993-6   | 3.8  | 18 |
| 54 | Combining a Nitrogenase Scaffold and a Synthetic Compound into an Artificial Enzyme. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14022-5   | 16.4 | 28 |
| 53 | Insights into hydrocarbon formation by nitrogenase cofactor homologs. <i>MBio</i> , <b>2015</b> , 6,  | 7.8  | 16 |
| 52 | Differential reduction of CO by molybdenum and vanadium nitrogenases. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11543-6  | 16.4 | 54 |
| 51 | Nonenzymatic synthesis of the P-cluster in the nitrogenase MoFe protein: evidence of the involvement of all-ferrous [Fe <sub>4</sub> S <sub>4</sub> ](0) intermediates. <i>Biochemistry</i> , <b>2014</b> , 53, 1108-16                             | 3.2  | 11 |

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| 50 | A journey into the active center of nitrogenase. <i>Journal of Biological Inorganic Chemistry</i> , <b>2014</b> , 19, 731-63.7   | 23       |
| 49 | Structures and Functions of the Active Sites of Nitrogenases <b>2014</b> , 199-224   | 4        |
| 48 | Biosynthesis of nitrogenase metalloclusters. <i>Chemical Reviews</i> , <b>2014</b> , 114, 4063-80  | 68.1 103 |
| 47 | X-ray spectroscopic observation of an interstitial carbide in NifEN-bound FeMoco precursor. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 610-2     | 16.4 87  |
| 46 | Nitrogenase assembly. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2013</b> , 1827, 1112-22   | 4.6 56   |
| 45 | Biosynthesis of the iron-molybdenum cofactor of nitrogenase. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 13173-7   | 5.4 46   |
| 44 | ATP-independent formation of hydrocarbons catalyzed by isolated nitrogenase cofactors. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1947-9         | 16.4 54  |
| 43 | Vanadium nitrogenase: a two-hit wonder?. <i>Dalton Transactions</i> , <b>2012</b> , 41, 1118-27  | 4.3 96   |
| 42 | P+ state of nitrogenase p-cluster exhibits electronic structure of a [Fe4S4]+ cluster. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13749-54       | 16.4 19  |
| 41 | ATP-Independent Formation of Hydrocarbons Catalyzed by Isolated Nitrogenase Cofactors. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1983-1985                             | 3.6 15   |
| 40 | Radical SAM-dependent carbon insertion into the nitrogenase M-cluster. <i>Science</i> , <b>2012</b> , 337, 1672-5  | 33.3 212 |
| 39 | Protocols for cofactor isolation of nitrogenase. <i>Methods in Molecular Biology</i> , <b>2011</b> , 766, 239-48   | 1.4 14   |
| 38 | Historic overview of nitrogenase research. <i>Methods in Molecular Biology</i> , <b>2011</b> , 766, 3-7  | 1.4 19   |
| 37 | Biosynthesis of the metalloclusters of molybdenum nitrogenase. <i>Microbiology and Molecular Biology Reviews</i> , <b>2011</b> , 75, 664-77                                | 13.2 40  |
| 36 | Structure of precursor-bound NifEN: a nitrogenase FeMo cofactor maturase/insertase. <i>Science</i> , <b>2011</b> , 331, 91-4   | 33.3 97  |
| 35 | X-ray emission spectroscopy evidences a central carbon in the nitrogenase iron-molybdenum cofactor. <i>Science</i> , <b>2011</b> , 334, 974-7                              | 33.3 659 |
| 34 | Tracing the Hydrogen Source of Hydrocarbons Formed by Vanadium Nitrogenase. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 5659-5661  | 3.6 7    |
| 33 | Spectroscopic Characterization of the Isolated Iron-Molybdenum Cofactor (FeMoco) Precursor from the Protein NifEN. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7933-7936 | 3.6 10   |

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|----|--|------|-----|
| 32 | Tracing the hydrogen source of hydrocarbons formed by vanadium nitrogenase. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 5545-7  | 16.4 | 40  |
| 31 | Spectroscopic characterization of the isolated iron-molybdenum cofactor (FeMoco) precursor from the protein NifEN. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7787-90                                | 16.4 | 51  |
| 30 | Biosynthesis of Nitrogenase FeMoco. <i>Coordination Chemistry Reviews</i> , <b>2011</b> , 255, 1218-1224   | 23.2 | 60  |
| 29 | [4Fe4S] <sub>2</sub> <sup>+</sup> clusters exhibit ground-state paramagnetism. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 6871-3   | 16.4 | 11  |
| 28 | Structural models of the [Fe <sub>4</sub> S <sub>4</sub> ] clusters of homologous nitrogenase Fe proteins. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 7123-8   | 5.1  | 26  |
| 27 | Extending the carbon chain: hydrocarbon formation catalyzed by vanadium/molybdenum nitrogenases. <i>Science</i> , <b>2011</b> , 333, 753-5   | 33.3 | 187 |
| 26 | NifEN-B complex of <i>Azotobacter vinelandii</i> is fully functional in nitrogenase FeMo cofactor assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 8623-7 | 11.5 | 63  |
| 25 | Vanadium nitrogenase reduces CO. <i>Science</i> , <b>2010</b> , 329, 642   | 33.3 | 204 |
| 24 | Decoding the nitrogenase mechanism: the homologue approach. <i>Accounts of Chemical Research</i> , <b>2010</b> , 43, 475-84  | 24.3 | 40  |
| 23 | Characterization of isolated nitrogenase FeVco. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12612-8   | 16.4 | 88  |
| 22 | Formation of a homocitrate-free iron-molybdenum cluster on NifEN: implications for the role of homocitrate in nitrogenase assembly. <i>Dalton Transactions</i> , <b>2010</b> , 39, 3124-30                                     | 4.3  | 24  |
| 21 | Dual functions of NifEN: insights into the evolution and mechanism of nitrogenase. <i>Dalton Transactions</i> , <b>2010</b> , 39, 2964-71  | 4.3  | 6   |
| 20 | Insertion of heterometals into the NifEN-associated iron-molybdenum cofactor precursor. <i>Journal of Biological Inorganic Chemistry</i> , <b>2010</b> , 15, 421-8   | 3.7  | 4   |
| 19 | Stepwise formation of P-cluster in nitrogenase MoFe protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 18474-8   | 11.5 | 43  |
| 18 | Catalytic activities of NifEN: implications for nitrogenase evolution and mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 16962-6                       | 11.5 | 25  |
| 17 | VTVH-MCD study of the Delta nifB Delta nifZ MoFe protein from <i>Azotobacter vinelandii</i> . <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 4558-9  | 16.4 | 24  |
| 16 | Unique features of the nitrogenase VFe protein from <i>Azotobacter vinelandii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 9209-14                        | 11.5 | 101 |
| 15 | Optimization of FeMoco maturation on NifEN. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 9321-5  | 16.4 | 44  |

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|----|--|------|-----|
| 14 | Assembly of nitrogenase MoFe protein. <i>Biochemistry</i> , <b>2008</b> , 47, 3973-81  | 3.2  | 81  |
| 13 | Conformational differences between <i>Azotobacter vinelandii</i> nitrogenase MoFe proteins as studied by small-angle X-ray scattering. <i>Biochemistry</i> , <b>2007</b> , 46, 8066-74   | 3.2  | 20  |
| 12 | Molecular insights into nitrogenase FeMo cofactor insertion: the role of His 362 of the MoFe protein alpha subunit in FeMo cofactor incorporation. <i>Journal of Biological Inorganic Chemistry</i> , <b>2007</b> , 12, 449-60                               | 3.7  | 18  |
| 11 | P-cluster maturation on nitrogenase MoFe protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 10424-9  | 11.5 | 62  |
| 10 | Structural insights into a protein-bound iron-molybdenum cofactor precursor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 1238-43   | 11.5 | 92  |
| 9  | FeMo cofactor maturation on NifEN. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 17119-24  | 11.5 | 89  |
| 8  | Molecular insights into nitrogenase FeMoco insertion: TRP-444 of MoFe protein alpha-subunit locks FeMoco in its binding site. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 30534-41   | 5.4  | 23  |
| 7  | Nitrogenase Fe protein: A molybdate/homocitrate insertase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 17125-30  | 11.5 | 71  |
| 6  | Variable-temperature, variable-field magnetic circular dichroism spectroscopic study of the metal clusters in the DeltanifB and DeltanifH mofe proteins of nitrogenase from <i>Azotobacter vinelandii</i> . <i>Biochemistry</i> , <b>2006</b> , 45, 15039-48 | 3.2  | 31  |
| 5  | Nitrogenase reactivity with P-cluster variants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 13825-30   | 11.5 | 42  |
| 4  | Identification of a nitrogenase FeMo cofactor precursor on NifEN complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 3236-41  | 11.5 | 102 |
| 3  | Comparison of iron-molybdenum cofactor-deficient nitrogenase MoFe proteins by X-ray absorption spectroscopy: implications for P-cluster biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 28276-82                                   | 5.4  | 54  |
| 2  | Characterization of <i>Azotobacter vinelandii</i> nifZ deletion strains. Indication of stepwise MoFe protein assembly. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 54963-71  | 5.4  | 45  |
| 1  | The FeMoco-deficient MoFe protein produced by a nifH deletion strain of <i>Azotobacter vinelandii</i> shows unusual P-cluster features. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 23469-76   | 5.4  | 56  |