

# Chi Chung Lee

## 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.

55 papers	1,632 citations	20 h-index	39 g-index
59 ext. papers	2,045 ext. citations	13.5 avg, IF	5.12 L-index

#	Paper	IF	Citations
55	Radical SAM-dependent formation of a nitrogenase cofactor core on NifB.. <i>Journal of Inorganic Biochemistry</i> , <b>2022</b> , 233, 111837	4.2	
54	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
53	Probing the All-Ferrous States of Methanogen Nitrogenase Iron Proteins. <i>Jacs Au</i> , <b>2021</b> , 1, 119-123		2
52	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
51	Characterization of a Mo-Nitrogenase Variant Containing a Citrate-Substituted Cofactor. <i>ChemBioChem</i> , <b>2021</b> , 22, 151-155	3.8	1
50	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
49	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
48	Structural evidence for a dynamic metallocofactor during N reduction by Mo-nitrogenase. <i>Science</i> , <b>2020</b> , 368, 1381-1385	33.3	57
47	Reactivity, Mechanism, and Assembly of the Alternative Nitrogenases. <i>Chemical Reviews</i> , <b>2020</b> , 120, 5107-5156	68.1	56
46	Heterologous Expression and Engineering of the Nitrogenase Cofactor Biosynthesis Scaffold NifEN. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6954-6960	3.6	
45	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
44	A V-Nitrogenase Variant Containing a Citrate-Substituted Cofactor. <i>ChemBioChem</i> , <b>2020</b> , 21, 1742-1748	3.8	5
43	Electrochemical Characterization of Isolated Nitrogenase Cofactors from <i>Azotobacter vinelandii</i> . <i>ChemBioChem</i> , <b>2020</b> , 21, 1773-1778	3.8	5
42	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
41	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
40	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
39	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

38	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
37	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
36	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
35	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
34	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
33	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
32	Characterization of an M-Cluster-Substituted Nitrogenase VFe Protein. <i>MBio</i> , <b>2018</b> , 9,	7.8	12
31	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
30	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
29	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
28	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
27	Activation and reduction of carbon dioxide by nitrogenase iron proteins. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 147-149	11.7	35
26	Cluster assembly in nitrogenase. <i>Essays in Biochemistry</i> , <b>2017</b> , 61, 271-279	7.6	18
25	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
24	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
23	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
22	Structure and Reactivity of an Asymmetric Synthetic Mimic of Nitrogenase Cofactor. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 15862-15865	3.6	10
21	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

20	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
19	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
18	Catalytic reduction of CN <sup>-</sup> , 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
17	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
16	Catalytic Reduction of CN <sup>-</sup> , CO, and CO <sub>2</sub> by Nitrogenase Cofactors in Lanthanide-Driven Reactions. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1235-1238	3.6	17
15	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
14	Insights into hydrocarbon formation by nitrogenase cofactor homologs. <i>MBio</i> , <b>2015</b> , 6,	7.8	16
13	Structures and Functions of the Active Sites of Nitrogenases <b>2014</b> , 199-224		4
12	Cleaving the n,n triple bond: the transformation of dinitrogen to ammonia by nitrogenases. <i>Metal Ions in Life Sciences</i> , <b>2014</b> , 14, 147-76	2.6	11
11	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
10	ATP-Independent Formation of Hydrocarbons Catalyzed by Isolated Nitrogenase Cofactors. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1983-1985	3.6	15
9	Radical SAM-dependent carbon insertion into the nitrogenase M-cluster. <i>Science</i> , <b>2012</b> , 337, 1672-5	33.3	212
8	ATP-independent substrate reduction by nitrogenase P-cluster variant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 6922-6	11.5	18
7	Tracing the Hydrogen Source of Hydrocarbons Formed by Vanadium Nitrogenase. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 5659-5661	3.6	7
6	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
5	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
4	Extending the carbon chain: hydrocarbon formation catalyzed by vanadium/molybdenum nitrogenases. <i>Science</i> , <b>2011</b> , 333, 753-5	33.3	187
3	Vanadium nitrogenase reduces CO. <i>Science</i> , <b>2010</b> , 329, 642	33.3	204

2	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
1	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