Hiromasa Tanaka

List of Publications by Year
in descending order

42	2,890	279798	254184
papers	citations	23 h-index	43 g-index

43	43	43	1564
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Catalytic Reduction of Dinitrogen into Ammonia and Hydrazine by Using Chromium Complexes Bearing PCPâ€Type Pincer Ligands**. Chemistry - A European Journal, 2022, 28, .	3.3	13
2	Catalytic Reduction of Dinitrogen to Ammonia and Hydrazine Using Ironâ€“Dinitrogen Complexes Bearing Anionic Benzene-Based PCP-Type Pincer Ligands. Bulletin of the Chemical Society of Japan, 2022, 95, 683-692.	3.2	11
3	Synthesis and Reactivity of Cobaltâ€“Dinitrogen Complexes Bearing Anionic PCP-Type Pincer Ligands toward Catalytic Silylamine Formation from Dinitrogen. Inorganic Chemistry, 2022, 61, 5190-5195.	4.0	8
4	Hydroboration and Hydrosilylation of a Molybdenumâ€“Nitride Complex Bearing a PNP-Type Pincer Ligand. Organometallics, 2022, 41, 366-373.	2.3	5
5	Ammonia Formation Catalyzed by a Dinitrogenâ€Bridged Dirhenium Complex Bearing PNPâ€Pincer Ligands under Mild Reaction Conditions**. Angewandte Chemie - International Edition, 2021, 60, 13906-13912.	13.8	21
6	Ammonia Formation Catalyzed by a Dinitrogenâ€Bridged Dirhenium Complex Bearing PNPâ€Pincer Ligands under Mild Reaction Conditions**. Angewandte Chemie, 2021, 133, 14025-14031.	2.0	2
7	Theoretical Views on Catalytic Reaction Pathways for Nitrogen Fixation by Dinitrogen-Bridging Dimolybdenum Complexes. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2021, 79, 1041-1049.	0.1	1
8	Mechanistic Study on Catalytic Disproportionation of Hydrazine by a Protic Pincerâ€Type Iron Complex through Protonâ€Coupled Electron Transfer. European Journal of Inorganic Chemistry, 2020, 2020, 1472-1482.	2.0	8
9	Nitrogen Fixation Catalyzed by Dinitrogenâ€Bridged Dimolybdenum Complexes Bearing PCPâ€•and PNPâ€Type Pincer Ligands: A Shortcut Pathway Deduced from Free Energy Profiles. European Journal of Inorganic Chemistry, 2020, 2020, 1490-1498.	2.0	17
10	Iridium-catalyzed Formation of Silylamine from Dinitrogen under Ambient Reaction Conditions. Chemistry Letters, 2020, 49, 794-797.	1.3	9
11	Cycling between Molybdenumâ€Dinitrogen and â€Nitride Complexes to Support the Reaction Pathway for Catalytic Formation of Ammonia from Dinitrogen. Chemistry - A European Journal, 2020, 26, 13383-13389.	3.3	25
12	Structural characterization of molybdenumâ€“dinitrogen complex as key species toward ammonia formation by dispersive XAFS spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 12368-12372.	2.8	9
13	Preparation and reactivity of molybdenum complexes bearing pyrrole-based PNP-type pincer ligand. Chemical Communications, 2020, 56, 6933-6936.	4.1	17
14	Synthesis and Catalytic Reactivity of Bis(molybdenum-trihalide) Complexes Bridged by Ferrocene Skeleton toward Catalytic Nitrogen Fixation. Organometallics, 2019, 38, 2863-2872.	2.3	13
15	Molybdenum-Catalyzed Ammonia Formation Using Simple Monodentate and Bidentate Phosphines as Auxiliary Ligands. Inorganic Chemistry, 2019, 58, 8927-8932.	4.0	48
16	Catalytic Reactivity of Molybdenumâ€“Trihalide Complexes Bearing PCPâ€Type Pincer Ligands. Chemistry - an Asian Journal, 2019, 14, 2091-2096.	3.3	24
17	Catalytic reduction of dinitrogen to tris(trimethylsilyl)amine using rhodium complexes with a pyrrole-based PNP-type pincer ligand. Chemical Communications, 2019, 55, 14886-14889.	4.1	26
18	Molecular understanding of the adhesive interactions between silica surface and epoxy resin: Effects of interfacial water. Journal of Computational Chemistry, 2019, 40, 164-171.	3.3	45

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19	Catalytic Reduction of Molecular Dinitrogen to Ammonia and Hydrazine Using Vanadium Complexes. Angewandte Chemie - International Edition, 2018, 57, 9064-9068.	13.8	109
20	Density-Functional Tight-Binding Study on the Effects of Interfacial Water in the Adhesion Force between Epoxy Resin and Alumina Surface. Langmuir, 2018, 34, 14428-14438.	3.5	27
21	Synergy of Electrostatic and van der Waals Interactions in the Adhesion of Epoxy Resin with Carbon-Fiber and Glass Surfaces. Bulletin of the Chemical Society of Japan, 2017, 90, 500-505.	3.2	22
22	Remarkable catalytic activity of dinitrogen-bridged dimolybdenum complexes bearing NHC-based PCP-pincer ligands toward nitrogen fixation. Nature Communications, 2017, 8, 14874.	12.8	198
23	Catalytic Nitrogen Fixation via Direct Cleavage of Nitrogenâ€“Nitrogen Triple Bond of Molecular Dinitrogen under Ambient Reaction Conditions. Bulletin of the Chemical Society of Japan, 2017, 90, 1111-1118.	3.2	156
24	Interplay between Theory and Experiment for Ammonia Synthesis Catalyzed by Transition Metal Complexes. Accounts of Chemical Research, 2016, 49, 987-995.	15.6	200
25	Azaferroceneâ€Based PNPâ€Type Pincer Ligand: Synthesis of Molybdenum, Chromium, and Iron Complexes and Reactivity toward Nitrogen Fixation. European Journal of Inorganic Chemistry, 2016, 2016, 4856-4861.	2.0	39
26	Direct Transformation of Molecular Dinitrogen into Ammonia Catalyzed by Cobalt Dinitrogen Complexes Bearing Anionic PNP Pincer Ligands. Angewandte Chemie - International Edition, 2016, 55, 14291-14295.	13.8	184
27	Synthesis and Structure of a Water-soluble Âμ-Î·¹:Î·¹-N₂ Dinuclear Ru^{II} Complex with a Polyamine Ligand. Chemistry Letters, 2016, 45, 149-151.	1.3	4
28	A Squareâ€Planar Complex of Platinum(0). Angewandte Chemie - International Edition, 2016, 55, 15347-15350.	13.8	25
29	Catalytic transformation of dinitrogen into ammonia and hydrazine by iron-dinitrogen complexes bearing pincer ligand. Nature Communications, 2016, 7, 12181.	12.8	244
30	Direct Transformation of Molecular Dinitrogen into Ammonia Catalyzed by Cobalt Dinitrogen Complexes Bearing Anionic PNP Pincer Ligands. Angewandte Chemie, 2016, 128, 14503-14507.	2.0	56
31	A Squareâ€Planar Complex of Platinum(0). Angewandte Chemie, 2016, 128, 15573-15576.	2.0	7
32	Nitrogen fixation catalyzed by ferrocene-substituted dinitrogen-bridged dimolybdenumâ€“dinitrogen complexes: unique behavior of ferrocene moiety as redox active site. Chemical Science, 2015, 6, 3940-3951.	7.4	100
33	Catalytic Reduction of Dinitrogen to Ammonia by Use of Molybdenumâ€“Nitride Complexes Bearing a Tridentate Triphosphine as Catalysts. Journal of the American Chemical Society, 2015, 137, 5666-5669.	13.7	215
34	Cobaltâ€Catalyzed Transformation of Molecular Dinitrogen into Silylamine under Ambient Reaction Conditions. Chemistry - A European Journal, 2015, 21, 8905-8909.	3.3	80
35	Cleavage and Formation of Molecular Dinitrogen in a Single System Assisted by Molybdenum Complexes Bearing Ferrocenyldiphosphine. Angewandte Chemie - International Edition, 2014, 53, 11488-11492.	13.8	111
36	Catalytic Formation of Ammonia from Molecular Dinitrogen by Use of Dinitrogen-Bridged Dimolybdenumâ€“Dinitrogen Complexes Bearing PNP-Pincer Ligands: Remarkable Effect of Substituent at PNP-Pincer Ligand. Journal of the American Chemical Society, 2014, 136, 9719-9731.	13.7	202

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37	Unique behaviour of dinitrogen-bridged dimolybdenum complexes bearing pincer ligand towards catalytic formation of ammonia. Nature Communications, 2014, 5, 3737.	12.8	162
38	Iron-catalysed transformation of molecular dinitrogen into silylamine under ambient conditions. Nature Communications, 2012, 3, 1254.	12.8	118
39	Molybdenum-Catalyzed Transformation of Molecular Dinitrogen into Silylamine: Experimental and DFT Study on the Remarkable Role of Ferrocenyldiphosphine Ligands. Journal of the American Chemical Society, 2011, 133, 3498-3506.	13.7	148
40	Theoretical Study on Activation and Protonation of Dinitrogen on Cubane-Type MIr₃S₄ Clusters (M = V, Cr, Mn, Fe, Co, Ni, Cu, Mo, Ru, and W). Inorganic Chemistry, 2010, 49, 2464-2470.	4.0	13
41	DFT Study on N2 Activation by a Hydride-Bridged Diniobium Complex. Nâ‰¡N Bond Cleavage Accompanied by H2 Evolution. Inorganic Chemistry, 2009, 48, 3875-3881.	4.0	29
42	DFT Study on Chemical N₂ Fixation by Using a Cubane-Type RuIr₃S₄ Cluster: Energy Profile for Binding and Reduction of N₂ to Ammonia via Ruâ^'Nâ^'NH_x (x = 1â^'3) Intermediates with Unique Structures. Journal of the American Chemical Society, 2008, 130, 9037-9047.	13.7	49