Yasuhiro Ohki

List of Publications by Year
in descending order

96	4,256	81900	123424
papers	citations	39 h-index	61 g-index

110	110	110	3040
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of Monophosphaferrocenes Revisited. ChemistrySelect, 2022, 7, .	1.5	6
2	Transition metal catalyzed cross-coupling and nitrogen reduction reactions: Lessons from computational studies. Advances in Organometallic Chemistry, 2022, , 35-78.	1.0	1
3	Nitrogen reduction by the Fe sites of synthetic [Mo3S4Fe] cubes. Nature, 2022, 607, 86-90.	27.8	55
4	Four-Electron Reduction of Dioxygen on a Metal Surface: Models of Dissociative and Associative Mechanisms in a Homogeneous System. Inorganic Chemistry, 2021, 60, 1550-1560.	4.0	1
5	Tracing the incorporation of the â€œninth sulfurâ€•into the nitrogenase cofactor precursor with selenite and tellurite. Nature Chemistry, 2021, 13, 1228-1234.	13.6	12
6	Cationic Ruâ€“Se Complexes for Cooperative Siâ€“H Bond Activation. Organometallics, 2020, 39, 4747-4753.	2.3	3
7	Metalâ€“Sulfur Compounds in N₂ Reduction and Nitrogenase-Related Chemistry. Chemical Reviews, 2020, 120, 5194-5251.	47.7	117
8	A dinuclear Mo2H8 complex supported by bulky C5H2tBu3 ligands. Chemical Communications, 2020, 56, 8035-8038.	4.1	7
9	Synthesis of Dinuclear Moâ^'Fe Hydride Complexes and Catalytic Silylation of N 2. Chemistry - A European Journal, 2020, 26, 9537-9546.	3.3	13
10	Synthesis, Characterization, and Application of Segphos Derivative Having Diferrocenylphosphino-Donor Moieties. Organometallics, 2020, 39, 788-792.	2.3	4
11	3â€[4â€²â€(Diethylboryl)phenyl]pyridine: Exclusive Crystallization of the Cyclic Tetramer. Chemistry - an Asian Journal, 2019, 14, 568-573.	3.3	6
12	Synthesis of [Mo₃S₄] Clusters from Half-Sandwich Molybdenum(V) Chlorides and Their Application as Platforms for [Mo₃S₄Fe] Cubes. Inorganic Chemistry, 2019, 58, 5230-5240.	4.0	17
13	Chemical Synthesis of an Asymmetric Mimic of the Nitrogenase Active Site. Methods in Molecular Biology, 2019, 1876, 229-244.	0.9	1
14	Tracing the â€˜ninth sulfurâ€™ of the nitrogenase cofactor via a semi-synthetic approach. Nature Chemistry, 2018, 10, 568-572.	13.6	54
15	Recent Advances in the Chemical Synthesis of Nitrogenase Model Clusters. Structure and Bonding, 2018, , 33-61.	1.0	1
16	Cubaneâ€Type [Mo₃S₄M] Clusters with Firstâ€Row Groupsâ€…4â€“10 Transitionâ€Metal Halides Supported by C₅Me₅ Ligands on Molybdenum. Chemistry - A European Journal, 2018, 24, 17138-17147.	3.3	18
17	Ambient conversion of CO2 to hydrocarbons by biogenic and synthetic [Fe4S4] clusters. Nature Catalysis, 2018, 1, 444-451.	34.4	51
18	N2 activation on a molybdenumâ€“titaniumâ€“sulfur cluster. Nature Communications, 2018, 9, 3200.	12.8	67

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19	Impact of ligands and media on the structure and properties of biological and biomimetic iron-sulfur clusters. Coordination Chemistry Reviews, 2017, 338, 207-225.	18.8	36
20	[Fe₄] and [Fe₆] Hydride Clusters Supported by Phosphines: Synthesis, Characterization, and Application in N₂ Reduction. Journal of the American Chemical Society, 2017, 139, 5596-5606.	13.7	92
21	Reduction of C₁ Substrates to Hydrocarbons by the Homometallic Precursor and Synthetic Mimic of the Nitrogenase Cofactor. Journal of the American Chemical Society, 2017, 139, 603-606.	13.7	33
22	Synthesis and Characterization of Bioinspired [Mo 2 Fe 2]â€“Hydride Cluster Complexes and Their Application in the Catalytic Silylation of N 2. Chemistry - A European Journal, 2017, 23, 13240-13248.	3.3	30
23	Structure and Reactivity of an Asymmetric Synthetic Mimic of Nitrogenase Cofactor. Angewandte Chemie, 2016, 128, 15862-15865.	2.0	13
24	Co₆H₈(PⁱPr₃)₆: A Cobalt Octahedron with Faceâ€Capping Hydrides. Angewandte Chemie, 2016, 128, 16053-16057.	2.0	16
25	Interconversion between [Fe₄S₄] and [Fe₂S₂] Clusters Bearing Amide Ligands. Inorganic Chemistry, 2016, 55, 4512-4518.	4.0	19
26	N-Heterocyclic Carbene Complexes of Three- and Four-Coordinate Fe(I). Organometallics, 2016, 35, 1368-1375.	2.3	14
27	Synthesis of dimethylmanganese(II) complexes bearing N-heterocyclic carbenes and nucleophilic substitution reaction of tetraalkoxysilanes by diorganomanganese(II) complexes. Journal of Organometallic Chemistry, 2016, 820, 14-19.	1.8	7
28	Co₆H₈(PⁱPr₃)₆: A Cobalt Octahedron with Faceâ€Capping Hydrides. Angewandte Chemie - International Edition, 2016, 55, 15821-15825.	13.8	29
29	Structure and Reactivity of an Asymmetric Synthetic Mimic of Nitrogenase Cofactor. Angewandte Chemie - International Edition, 2016, 55, 15633-15636.	13.8	44
30	Self-Assembly of 4-(Diethylboryl)pyridine: Crystal Structures of the Cyclic Pentamer and Hexamer and Their Solvent-Dependent Selective Crystallization. Journal of Organic Chemistry, 2016, 81, 2399-2404.	3.2	5
31	N-Heterocyclic carbenes as supporting ligands in transition metal complexes of N₂. Dalton Transactions, 2016, 45, 874-880.	3.3	25
32	Recent Progress in Research on the Structures and Functions of Nitrogenase Active Sites. Bulletin of Japan Society of Coordination Chemistry, 2015, 66, 26-30.	0.2	0
33	Combining a Nitrogenase Scaffold and a Synthetic Compound into an Artificial Enzyme. Angewandte Chemie - International Edition, 2015, 54, 14022-14025.	13.8	35
34	Synthesis and Protonation of N-Heterocyclic-Carbene-Supported Dinitrogen Complexes of Molybdenum(0). Organometallics, 2015, 34, 3414-3420.	2.3	24
35	Mechanism of the cooperative Siâ€“H bond activation at Ruâ€“S bonds. Chemical Science, 2015, 6, 4324-4334.	7.4	76
36	Coupling of an Nâ€Heterocyclic Carbene on Iron with Alkynes to Form Î·⁵â€Cyclopentadienylâ€Diimine Ligands. Angewandte Chemie - International Edition, 2014, 53, 2727-2729.	13.8	28

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37	Dinuclear Iron(0) Complexes of N-Heterocyclic Carbenes. Organometallics, 2014, 33, 921-929.	2.3	32
38	A Convenient Route to Synthetic Analogues of the Oxidized Form of High-Potential Ironâ€“Sulfur Proteins. Inorganic Chemistry, 2014, 53, 4000-4009.	4.0	27
39	Synthesis of V/Fe/S Clusters Using Vanadium(III) Thiolate Complexes Bearing a Phenoxide-Based Tridentate Ligand. Inorganic Chemistry, 2014, 53, 5438-5446.	4.0	11
40	Synthetic Analogues of the Active Sites of Nitrogenase and [NiFe] Hydrogenase. Bulletin of the Chemical Society of Japan, 2014, 87, 1-19.	3.2	10
41	Catalytic Generation of Borenium Ions by Cooperative Bâ€“H Bond Activation: The Elusive Direct Electrophilic Borylation of Nitrogen Heterocycles with Pinacolborane. Journal of the American Chemical Society, 2013, 135, 10978-10981.	13.7	168
42	Synthesis of Coordinatively Unsaturated Halfâ€Sandwich Ironâ€“Silyl Complexes with an Nâ€Heterocyclic Carbene Ligand and Their Reactions with H₂. European Journal of Inorganic Chemistry, 2013, 2013, 3966-3971.	2.0	23
43	New Synthetic Routes to Metalâ€Sulfur Clusters Relevant to the Nitrogenase Metalloâ€Clusters. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1340-1349.	1.2	34
44	An Iron(II) Complex of a Diamine-Bridged Bis-N-Heterocyclic Carbene. Organometallics, 2012, 31, 8047-8050.	2.3	52
45	Oxido-Bridged Di-, Tri-, and Tetra-Nuclear Iron Complexes Bearing Bis(trimethylsilyl)amide and Thiolate Ligands. Inorganic Chemistry, 2012, 51, 2645-2651.	4.0	20
46	Base-Free Dehydrogenative Coupling of Enolizable Carbonyl Compounds with Silanes. Organic Letters, 2012, 14, 2842-2845.	4.6	64
47	Synthesis of Bis(N-heterocyclic carbene) Complexes of Iron(II) and Their Application in Hydrosilylation and Transfer Hydrogenation. Organometallics, 2012, 31, 4474-4479.	2.3	99
48	A Nitrogenase Cluster Model [Fe₈S₆O] with an Oxygen Unsymmetrically Bridging Two Proto-Fe₄S₃ Cubes: Relevancy to the Substrate Binding Mode of the FeMo Cofactor. Inorganic Chemistry, 2012, 51, 11217-11219.	4.0	58
49	Formation of a Nitrogenase Pâ€cluster [Fe₈S₇] Core via Reductive Fusion of Two Allâ€Ferric [Fe₄S₄] Clusters. Chemistry - an Asian Journal, 2012, 7, 2222-2224.	3.3	31
50	Non-Centrosymmetric Coordination Polymer with a Highly Hindered Octahedral Copper Center Bridged by Mandelate. Inorganic Chemistry, 2012, 51, 4689-4693.	4.0	12
51	Naphthalene and Anthracene Complexes Sandwiched by Two {(Cp*)Fe^I} Fragments: Strong Electronic Coupling between the Fe^I Centers. Chemistry - an Asian Journal, 2012, 7, 1231-1242.	3.3	24
52	Cooperative Catalytic Activation of Siâ€H Bonds by a Polar Ruâ€S Bond: Regioselective Low-Temperature Câ€H Silylation of Indoles under Neutral Conditions by a Friedelâ€Crafts Mechanism. Journal of the American Chemical Society, 2011, 133, 3312-3315.	13.7	226
53	Thiolateâ€Bridged Ironâ€“Nickel Models for the Active Site of [NiFe] Hydrogenase. European Journal of Inorganic Chemistry, 2011, 2011, 973-985.	2.0	77
54	Synthetic analogues of [Fe ₄ S ₄ (Cys) ₃ (His)] in hydrogenases and [Fe ₄ S ₄ (Cys) ₄] in HiPIP derived from all-ferric [Fe ₄ S ₄ {N(SiMe ₃) ₂ } <su. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12635-12640.	7.1	41

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55	Cï£¿H Bond Activation/Borylation of Furans and Thiophenes Catalyzed by a Halfâ€Sandwich Iron Nâ€Heterocyclic Carbene Complex. Chemistry - an Asian Journal, 2010, 5, 1657-1666.	3.3	151
56	Exploring the Limits of Frustrated Lewis Pair Chemistry with Alkynes: Detection of a System that Favors 1,1â€Carboboration over Cooperative 1,2â€P/Bâ€Addition. Chemistry - an Asian Journal, 2010, 5, 2199-2208.	3.3	106
57	An Iron(II) Carbonyl Thiolato Complex Bearing 2â€Methoxyâ€Pyridine: A Structural Model of the Active Site of [Fe] Hydrogenase. Chemistry - an Asian Journal, 2010, 5, 1962-1964.	3.3	23
58	A model for the CO-inhibited form of [NiFe] hydrogenase: synthesis of (CO)3Fe(Â-StBu)3NiÂ and reversible CO addition at the Ni site. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3994-3997.	7.1	51
59	Synthesis of Coordinatively Unsaturated Mesityliron Thiolate Complexes and Their Reactions with Elemental Sulfur. Inorganic Chemistry, 2010, 49, 6102-6109.	4.0	39
60	Synthesis and Reactions of Coordinatively Unsaturated Half-Sandwich Rhodium and Iridium Complexes Having a 2,6-Dimesitylbenzenethiolate Ligand. Organometallics, 2010, 29, 1761-1770.	2.3	20
61	Catalytic hydrogenation of CO and CN bonds via heterolysis of H2 mediated by metalâ€“sulfur bonds of rhodium and iridium thiolate complexes. Journal of Organometallic Chemistry, 2009, 694, 2820-2824.	1.8	29
62	Dithiolateâ€Bridged Feâ€Niâ€Fe Trinuclear Complexes Consisting of Fe(CO)_{3â^’n}(CN)_n (n=0, 1) Components Relevant to the Active Site of [NiFe] Hydrogenase. Chemistry - an Asian Journal, 2009, 4, 961-968.	3.3	21
63	Evidence for a Rapid Degenerate Heteroâ€Copeâ€Type Rearrangement in [Cp*W(S)₂Sâ€CH₂â€CHï£¾CH₂]. Chemistry - an Asian Journal, 2009, 4, 1830-1833.	3.3	1
64	Synthesis, Structures, and Electronic Properties of [8Fe-7S] Cluster Complexes Modeling the Nitrogenase P-Cluster. Journal of the American Chemical Society, 2009, 131, 13168-13178.	13.7	62
65	A Dithiolate-Bridged (CN)₂(CO)Feâ^’Ni Complex Reproducing the IR Bands of [NiFe] Hydrogenase. Inorganic Chemistry, 2009, 48, 2358-2360.	4.0	48
66	Câ^’H Bond Activation of Decamethylcobaltocene Mediated by a Nitrogenase Fe₈S₇ P-Cluster Model. Inorganic Chemistry, 2009, 48, 4271-4273.	4.0	34
67	Organometallic Chemistry in [NiFe] Hydrogenases: Synthesis of the Structural and Functional Models. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2009, 67, 540-553.	0.1	1
68	Reactions at the Ruâ€“S Bonds of Coordinatively Unsaturated Ruthenium Complexes with Tethered 2,6â€Dimesitylphenyl Thiolate. Chemistry - an Asian Journal, 2008, 3, 1625-1635.	3.3	70
69	3-(Dimethylboryl)pyridine:â€‰ Synthesis, Structure, and Remarkable Steric Effects in Scrambling Reactions. Journal of Organic Chemistry, 2008, 73, 81-87.	3.2	11
70	Reversible Heterolysis of H₂Mediated by an Mâ^’S(Thiolate) Bond (M = Ir, Rh): A Mechanistic Implication for [NiFe] Hydrogenase. Journal of the American Chemical Society, 2008, 130, 11610-11611.	13.7	75
71	Heterolytic Cleavage of Dihydrogen by Frustrated Lewis Pairs Derived from Î±-(Dimesitylphosphino)ferrocenes and B(C₆F₅)₃. Organometallics, 2008, 27, 5279-5284.	2.3	69
72	Câ^’H Bond Activation of Heteroarenes Mediated by a Half-Sandwich Iron Complex of N-Heterocyclic Carbene. Journal of the American Chemical Society, 2008, 130, 17174-17186.	13.7	172

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73	Trithio-Chloro Molybdate [MoClS3]â^': A Versatile Precursor for Molybdenum Trisulfido Complexes. Inorganic Chemistry, 2008, 47, 3763-3771.	4.0	6
74	Thiolate-bridged dinuclear iron(tris-carbonyl)â€"nickel complexes relevant to the active site of [NiFe] hydrogenase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7652-7657.	7.1	69
75	Synthesis and dehydrogenation of M(AlH4)2 (M=Mg, Ca). Journal of Alloys and Compounds, 2007, 446-447, 237-241.	5.5	35
76	Dinitrogen Activation by Groupâ€…4 Metal Complexes. Angewandte Chemie - International Edition, 2007, 46, 3180-3183.	13.8	92
77	Synthesis and characterization of heteroleptic iron(II) thiolate complexes with weak ironâ€"arene interactions. Journal of Organometallic Chemistry, 2007, 692, 4792-4799.	1.8	48
78	Synthesis of New [8Fe-7S] Clusters:â€‰ A Topological Link between the Core Structures of P-Cluster, FeMo-co, and FeFe-co of Nitrogenases. Journal of the American Chemical Society, 2007, 129, 10457-10465.	13.7	114
79	Mono{hydrotris(mercaptoimidazolyl)borato} Complexes of Manganese(II), Iron(II), Cobalt(II), and Nickel(II) Halides. Inorganic Chemistry, 2006, 45, 9914-9925.	4.0	87
80	Reductive Nâ^'N Bond Cleavage of Diphenylhydrazine and Azobenzene Induced by Coordinatively Unsaturated Cp*Fe{N(SiMe3)2}. Organometallics, 2006, 25, 3111-3113.	2.3	47
81	Theory of chemical bonds in metalloenzymes V: Hybrid-DFT studies of the inorganic [8Feâ€"7S] core. International Journal of Quantum Chemistry, 2006, 106, 3288-3302.	2.0	28
82	Synthesis of [2Feâ€"2S] and [4Feâ€"4S] Clusters Having Terminal Amide Ligands from an Iron(II) Amide Complex. Chemistry Letters, 2005, 34, 172-173.	1.3	48
83	A facile method for synthesis of (R)-(â^')- and (S)-(+)-homocitric acid lactones and related Î±-hydroxy dicarboxylic acids from d- or l-malic acid. Tetrahedron Letters, 2005, 46, 3815-3818.	1.4	16
84	Dithiolato-Bridged Dinuclear Ironâ^'Nickel Complexes [Fe(CO)2(CN)2(Î¼-SCH2CH2CH2S)Ni(S2CNR2)]-Modeling the Active Site of [NiFe] Hydrogenase. Journal of the American Chemical Society, 2005, 127, 8950-8951.	13.7	158
85	Molybdenum Carbonyl Complexes with Citrate and Its Relevant Carboxylates. Organometallics, 2005, 24, 1344-1347.	2.3	25
86	Sulfido-Bridged Dinuclear Molybdenumâ^'Copper Complexes Related to the Active Site of CO Dehydrogenase:â€‰ [(dithiolate)Mo(O)S2Cu(SAr)]2- (dithiolate = 1,2-S2C6H4, 1,2-S2C6H2-3,6-Cl2, 1,2-S2C2H4) Inorganic Chemistry, 2005, 44, 6034-6043.	4.0	57
87	A Half-Sandwich Ruthenium(II) Complex Containing a Coordinatively Unsaturated 2,6-Dimesitylphenyl Thiolate Ligand. Angewandte Chemie - International Edition, 2004, 43, 2290-2293.	13.8	33
88	Eliminationâ^'Addition Mechanism for Nucleophilic Substitution Reaction of Cyclohexenyl Iodonium Salts and Regioselectivity of Nucleophilic Addition to the Cyclohexyne Intermediate. Journal of the American Chemical Society, 2004, 126, 7548-7558.	13.7	46
89	Synthesis of the P-Cluster Inorganic Core of Nitrogenases. Journal of the American Chemical Society, 2003, 125, 4052-4053.	13.7	101
90	Pentanuclear Polyhydride Cluster of Ruthenium with Trigonal-Bipyramidal Geometry. Synthesis and Fluxional Behavior. Organometallics, 2003, 22, 59-64.	2.3	22

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91	Heterolytic Cleavage of Dihydrogen Promoted by Sulfido-Bridged Tungstenâˆ'Ruthenium Dinuclear Complexes. Journal of the American Chemical Society, 2003, 125, 7978-7988.	13.7	53
92	Migration of a Phosphane Ligand between the Two Metal Centers in Diruthenium Hydrido Complexes We gratefully acknowledge Professor Masato Oshima (Tokyo Institute of Polytechnics) for performing the theoretical calculation and thank Kanto Chemical Co., Inc., for a generous gift of pentamethylcyclopentadiene.. Angewandte Chemie - International Edition, 2002, 41, 2994.	13.8	30
93	Rational Synthesis of Tetranuclear Ruthenium Polyhydride Clusters and Their Mixed-Ligand Analogues. Angewandte Chemie - International Edition, 2002, 41, 4085-4087.	13.8	18
94	{(Î·5-C5Me5)Fe}2(Î¼-H)2(Î¼-Î·2:Î·2-H2SitBu2), a Versatile Precursor for Bimetallic Active Species. Organometallics, 2001, 20, 2654-2656.	2.3	35
95	[{(Î·5-C5Me5)Fe}2(Î¼-H)4]: A Novel Dinuclear Iron Tetrahydrido Complex. Angewandte Chemie - International Edition, 2000, 39, 3120-3122.	13.8	40
96	Novel Mode of Câˆ'C Bond Cleavage of Norbornadiene on a Dinuclear Ruthenium Complex. Angewandte Chemie - International Edition, 2000, 39, 3463-3465.	13.8	43