

Hiromi Tobita

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Iridium and rhodium complexes bearing a silyl-bipyridine pincer ligand: synthesis, structures and catalytic activity for C-H borylation of arenes. <i>Dalton Transactions</i> , 2022, 51, 9983-9987.	3.3	7
2	Catalysts for Regio- and Stereoselective C(sp ³)-H Deuteration of Tricyclohexylphosphine with Benzene-d ₆ Generated via Dehydrochlorination of Chlorido(dihydrido)iridium Complexes Containing a Xanthene-Based Bis(silyl) Chelate Ligand. <i>Organometallics</i> , 2021, 40, 3113-3123.	2.3	7
3	Synthesis of a Molybdenum Hydrido(hydrogermylene) Complex and Its Conversion to a Germylyne Complex: Another Route through Dehydrogenation with Nitriles. <i>Organometallics</i> , 2020, 39, 4350-4361.	2.3	20
4	Bifunctional Rhodium Complex Featuring a Silyl-1,8-naphthyridine Si-N-Chelate Ligand: Cooperation of Metal and Pendant Base for Capture and Bond-weakening of BH ₃ . <i>Chemistry Letters</i> , 2020, 49, 1431-1434.	1.3	3
5	Products of [2+2] Cycloaddition between a W-Si Triple-bonded Complex and Alkynes: Isolation, Structure, and Non-classical Bonding Interaction. <i>Chemistry Letters</i> , 2020, 49, 311-314.	1.3	6
6	A Nickel Complex Containing a Pyramidalized, Ambiphilic Pincer Germylene Ligand. <i>Chemistry - A European Journal</i> , 2019, 25, 13491-13495.	3.3	28
7	Reactions of a Silylyne Complex with Aldehydes: Formation of W-Si-O-C Four-Membered Metallacycles and Their Metathesis-Like Fragmentation. <i>Chemistry - A European Journal</i> , 2019, 25, 3795-3798.	3.3	11
8	Silyl-pyridine-amine pincer-ligated iridium complexes for catalytic silane deuteration <i>via</i> room temperature C-D bond activation of benzene-d ₆ . <i>Chemical Communications</i> , 2019, 55, 957-960.	4.1	14
9	Double and Single Hydroboration of Nitriles Catalyzed by a Ruthenium-Bis(silyl)xanthene Complex: Application to One-Pot Synthesis of Diarylamines and N-Arylimines. <i>Organometallics</i> , 2019, 38, 1417-1420.	2.3	39
10	Diruthenium Complexes with a 1,8-Naphthyridine-based Bis(silyl) Supporting Ligand: Synthesis and Structures of Complexes Containing Ru ₂ (μ ₂ -H) ₂ and Ru ₂ Cores. <i>Chemistry Letters</i> , 2018, 47, 400-403.	1.3	2
11	Recent advances in the chemistry of transition metal-silicon/germanium triple-bonded complexes. <i>Coordination Chemistry Reviews</i> , 2018, 355, 362-379.	18.8	36
12	Synthesis and Unique Catalytic Reactivity of Metal Complexes with Chelate-Type Silyl Ligands Connected by Xanthene. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2018, 76, 1301-1309.	0.1	1
13	An iron germylene complex having Fe-H and Ge-H bonds: synthesis, structure and reactivity. <i>Dalton Transactions</i> , 2017, 46, 8167-8179.	3.3	22
14	Tandem Hydrosilylation/ <i>o</i> -C-H Silylation of Arylalkynes Catalyzed by Ruthenium Bis(silyl) Aminophosphine Complexes. <i>Organometallics</i> , 2017, 36, 2710-2713.	2.3	22
15	Synthesis of Base-Stabilized Hydrido(hydroborylene)tungsten Complexes and Their Reactions with Terminal Alkynes To Give μ ₃ -Boraallyl Complexes. <i>Organometallics</i> , 2017, 36, 4816-4824.	2.3	20
16	Synthesis of a Tungsten-Silylyne Complex via Stepwise Proton and Hydride Abstraction from a Hydrido Hydrosilylene Complex. <i>Organometallics</i> , 2016, 35, 921-924.	2.3	42
17	Directed <i>ortho</i> -C-H Silylation Coupled with <i>trans</i> -Selective Hydrogenation of Arylalkynes Catalyzed by Ruthenium Complexes of a Xanthene-Based Si ₂ O-Si-Chelate Ligand, Xantsil. <i>Organometallics</i> , 2016, 35, 1209-1217.	2.3	22
18	Direct Conversion of a Si-C(aryl) Bond to Si-Heteroatom Bonds in the Reactions of μ ₃ -η ³ -Silabenzyl Molybdenum and Tungsten Complexes with 2-Substituted Pyridines. <i>Organometallics</i> , 2015, 34, 3699-3705.	2.3	11

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19	Synthesis of Ruthenium Complexes with a Nonspectator σ -Si ₂ O ₂ P-Chelate Ligand: Interconversion between a Hydrido(η -silylene) Complex and a Silyl Complex Leading to Catalytic Alkene Hydrogenation. <i>Organometallics</i> , 2015, 34, 1211-1217.	2.3	25
20	Unexpected Formation of NHC-Stabilized Hydrosilylyne Complexes via Alkane Elimination from NHC-Stabilized Hydrido(alkylsilylene) Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 10906-10909.	13.7	22
21	Insertion of a Cationic Metallogermylene into σ -H Bonds (E = H, B, Si). <i>Journal of the American Chemical Society</i> , 2015, 137, 11935-11937.	13.7	74
22	Insertion of carbon monoxide into an aldehyde C=O double bond induced by an (η -silylene)carbonylmolybdenum complex. <i>RSC Advances</i> , 2014, 4, 19068-19071.	3.6	2
23	Synthesis, Structure, and Reactions of a (η -silylene)molybdenum Complex: A Synthetic Equivalent of a Coordinatively Unsaturated Silyl Complex. <i>Organometallics</i> , 2013, 32, 2795-2803.	2.3	8
24	(η -silylene)tungsten Complexes: An Isolable Intermediate for Interconversion between a Silylene Complex and a Silyl Complex through 1,2-Aryl Migration. <i>Organometallics</i> , 2013, 32, 748-751.	2.3	10
25	Synthesis of a Base-stabilized (Chlorogermyl)metallogermylene and Its Photochemical Conversion to a (Chlorogermyl)germylyne Complex. <i>Chemistry Letters</i> , 2013, 42, 43-44.	1.3	9
26	Silane(silyl) and Bis(silyl)hydrido Manganese Complexes with Different Mn \cdots H \cdots Si Interaction: Observation of Gradual Si \cdots H Bond Activation on the Metal Center. <i>Chemistry Letters</i> , 2012, 41, 774-776.	1.3	16
27	Reactions of a Neutral Silylene Ruthenium Complex with Heterocumulenes: σ -Hydrosilylation of Isocyanates vs σ -Bond Cleavage of Isothiocyanate. <i>Organometallics</i> , 2012, 31, 527-530.	2.3	39
28	Preparation of endohedral fullerene containing lithium (Li@C ₆₀) and isolation as pure hexafluorophosphate salt ([Li@C ₆₀][PF ₆]). <i>RSC Advances</i> , 2012, 2, 10624.	3.6	75
29	Formation of a Germylyne Complex: Dehydrogenation of a Hydrido(hydrogermylene)tungsten Complex with Mesityl Isocyanate. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2930-2933.	13.8	55
30	Hydrido(hydrosilylene)tungsten Complexes: Dynamic Behavior and Reactivity Toward Acetone. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1408-1416.	3.3	37
31	Synthesis and Characterization of η -C ₂ N-N-Silyliminoacyl Tungsten Complexes Cp*(CO) ₂ W(η -C ₂ N-C(R) η -NSiR ₂) [R = Me, Et, i-Pr, t-Bu; R ₂ = (p-Tol) ₂ Me, (p-Tol) ₃ , Et ₃ ; Cp* = η -5-C ₅ Me ₅]: Thermally Induced Carbon \cdots Carbon Bond Cleavage of Their Iminoacyl Ligands. <i>Organometallics</i> , 2010, 29, 1839-1848.	2.3	15
32	Reactions of a hydrido(hydrogermylene)tungsten complex with some heterocumulenes: hydrogermylation and thermal rearrangement. <i>New Journal of Chemistry</i> , 2010, 34, 1723.	2.8	19
33	Thermal reaction of a ruthenium bis(silyl) complex having a lutidine-based Si ₂ N ₂ Si ligand: formation of a η -silyl(η -silylene) diruthenium complex involving a σ -Ru \cdots Si \cdots C interaction. <i>Chemical Communications</i> , 2010, 46, 1136.	4.1	19
34	Facile 1,2-Migration of a Methyl Group on a {Dimethoxy(methyl)silyl}tungsten Complex: Formation of a Base-Stabilized (Dimethoxysilylene)(methyl) Complex. <i>Organometallics</i> , 2010, 29, 5296-5300.	2.3	18
35	Reactions of a hydrido(hydrosilylene)ruthenium complex with carbonyl compounds. <i>Dalton Transactions</i> , 2009, , 1812.	3.3	35
36	Synthesis and Structure of a Hydrido(hydrogermylene)tungsten Complex and Its Reactions with Nitriles and Ketones. <i>Chemistry Letters</i> , 2009, 38, 1196-1197.	1.3	38

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37	[Ru(xantsil)(CO)(η -6-toluene)]: Synthon for a Highly Unsaturated Ruthenium(II) Complex through Facile Dissociation of the Toluene Ligand [xantsil = (9,9-dimethylxanthene-4,5-diyl)bis(dimethylsilyl)]. <i>Organometallics</i> , 2008, 27, 918-926.	2.3	24
38	New hydrosilylation reaction of arylacetylene accompanied by C-H bond activation catalyzed by a xantsil ruthenium complex. <i>Pure and Applied Chemistry</i> , 2008, 80, 1155-1160.	1.9	23
39	Reactions of Hydrido(hydrosilylene)tungsten Complexes with η^3 -Unsaturated Carbonyl Compounds: Selective Formation of η^3 -Siloxyallyl)tungsten Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 11338-11339.	13.7	34
40	Iron, Ruthenium, and Osmium Complexes Supported by the Bis(silyl) Chelate Ligand (9,9-Dimethylxanthene-4,5-diyl)bis(dimethylsilyl): Synthesis, Characterization, and Reactivity. <i>Organometallics</i> , 2007, 26, 5859-5866.	2.3	26
41	Synthesis and Structure of a Hydrido(hydrosilylene)ruthenium Complex and Its Reactions with Nitriles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8192-8194.	13.8	104
42	Reactions of a hydrido(hydrosilylene)tungsten complex with oxiranes. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 36-43.	1.8	25
43	Reactions of a Silyl(silylene)iron Complex with Nitriles: Carbon-Carbon Bond Cleavage of Nitriles by the Transiently Generated Disilanyliron(II) Intermediate. <i>Organometallics</i> , 2006, 25, 472-476.	2.3	38
44	Stoichiometric Hydrosilylation of Nitriles with Hydrido(hydrosilylene)tungsten Complexes: Formation of η^3 -N Three-Membered Ring Complexes and Their Unique Thermal Behaviors. <i>Journal of the American Chemical Society</i> , 2006, 128, 2176-2177.	13.7	78
45	Insertion of Pyridine into an Iron-Silicon Bond and Photochemical Conversion of the Insertion Product $Cp^*(OC)Fe\{\eta^3(C,C,C)-C_5H_5NSiMe_2NPh_2\}$ to a Sandwich Compound. <i>Organometallics</i> , 2006, 25, 6115-6124.	2.3	23
46	Nonphotochemical Synthesis of a Base-free Silyl(silylene)iron Complex and Its Reaction with CO: Another Direct Evidence for Reversible 1,2- and 1,3-Group Migrations. <i>Chemistry Letters</i> , 2005, 34, 1374-1375.	1.3	26
47	Reactivity of Phosphasilametallopropane toward Substrates with Polarized E-H Bonds (E = O, N). <i>Journal of Organometallic Chemistry</i> , 2005, 684, 1-16.	2.3	16
48	Hydrido(hydrosilylene)tungsten Complexes with Strong Interactions between the Silylene and Hydrido Ligands. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 218-221.	13.8	103
49	Direct Evidence for Extremely Facile 1,2- and 1,3-Group Migrations in an FeSi ₂ System. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 221-224.	13.8	74
50	Dimerization of Phosphasilaferracycles: Formation and Structures of Isomeric Fe ₂ Si ₂ P ₂ Six-Membered Metallacycles. <i>Organometallics</i> , 2004, 23, 1971-1973.	2.3	10
51	Ru(xantsil)(CO)(PCy ₃): Facile Generation of a Coordinatively Unsaturated Ruthenium(II) Complex Bearing 14 Valence Electrons [xantsil = (9,9-dimethylxanthene-4,5-diyl)bis(dimethylsilyl)]. <i>Organometallics</i> , 2004, 23, 4531-4533.	2.3	20
52	Selective and Stepwise Bromodemethylation of the Silyl Ligand in Iron(II) Silyl Complexes with Boron Tribromide. <i>Organometallics</i> , 2004, 23, 4150-4153.	2.3	8
53	Facile Isomerization of a Tungsten Silyl Complex to a Base-Stabilized Silylene Complex via 1,2-Migration of an Aryl Group. <i>Organometallics</i> , 2003, 22, 4633-4635.	2.3	25
54	Reactions of $M[\eta^5-C_5Me_5]Fe(CO)_2$ with ClSiMe ₂ NR ₂ in THF, Et ₂ O and toluene (M = Li and K; R = Me, Et). <i>Journal of Organometallic Chemistry</i> , 2003, 653, 1-13.	3.3	13

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55	Reactivity of silylene complexes. Dalton Transactions, 2003, , 493-506.	3.3	223
56	Synthesis, structure, and reactivity of {(2-phosphinoethyl)silyl}rhodium(i) complexes Rh[(η^2 -Si,P)-Me ₂ Si(CH ₂) ₂ PPh ₂](PMe ₃) _n (n = 2, 3). Dalton Transactions RSC, 2002, , 2061-2068.	2.3	19
57	C-H bond activation of benzene and thiophene by photochemically generated rhenocene cation. International Journal of Photoenergy, 1999, 1, 157-160.	2.5	1
58	Thermal and Photochemical Reactions of a Cationic Rhenocene- η^5 -Acetonitrile Adduct: The First C-H Bond Activation by Rhenocene Cation. Organometallics, 1998, 17, 3405-3407.	2.3	9
59	Synthesis, Structure, and Reactivity of a Bis(silylene)carbonylruthenium Complex and a Novel Addition Reaction of Photochemically Generated Dimethylsilylene to Bis(silylene) Complexes Cp(OC)M{SiMe ₂ - η^5 -O(Me)- η^5 -SiMe ₂ } (M = Ru, Fe). Organometallics, 1998, 17, 2844-2849.	2.3	40
60	Synthesis of Cationic Gernyleneiron Complexes and X-ray Structure of [Cp*(CO) ₂ FeGeMe ₂ -DMAP]BPh ₄ -CH ₃ CN (Cp* = C ₅ Me ₅ , DMAP = 4-(Dimethylamino)pyridine). Organometallics, 1998, 17, 789-794.	2.3	33
61	Synthesis and Properties of Intramolecularly Base-Stabilized (Disilyl- η^5 -silylene)ruthenium and -iron Complexes. Organometallics, 1998, 17, 2850-2856.	2.3	32
62	Novel Reaction of Silyl Carbonyl Complexes with Hydride-Transfer Reagents: Reduction of a Carbonyl Ligand and Coupling with a Silyl Group. Organometallics, 1998, 17, 3497-3504.	2.3	10
63	Intramolecular Aromatic C-H Bond Activation by a Silylene Ligand in a Methoxy-Bridged Bis(silylene)- η^5 -Ruthenium Complex. Organometallics, 1997, 16, 3870-3872.	2.3	25
64	Reactivity of a Donor-Stabilized Bis(silylene)ruthenium Complex toward Nucleophiles ROH (R = Me, H). Organometallics, 1997, 16, 2200-2203.	2.3	20
65	Photoreaction of Silyliron(II) Complex Cp*Fe(CO) ₂ SiMe ₃ (Cp* = η^5 -C ₅ Me ₅) in the Presence of p-Tolylgermane. Organometallics, 1996, 15, 4954-4958.	2.3	17
66	Synthesis and Structure of the {(2-Phosphinoethyl)silyl}-tris(tertiary phosphine)iridium(I) Complex Ir{ η^2 -Me ₂ Si(CH ₂) ₂ PPh ₂ }(PMe ₃) ₃ . Organometallics, 1996, 15, 2790-2793.	2.3	25
67	[Cp ₂ Fe ₂ (CO) ₃ (η^4 -Si ^t Bu-NMI)] ₂ : The First Silanetriplydiiron Complex. Angewandte Chemie International Edition in English, 1991, 30, 843-844.	4.4	23
68	[Cp ₂ Fe ₂ (CO) ₃ (η^4 -Si ^t Bu-NMI)] ₂ , der erste Silanetriplydieisenkomplex. Angewandte Chemie, 1991, 103, 877-878.	2.0	4
69	Synthesis and Crystal Structure of [(η^5 -C ₅ Me ₅) ₂ Fe ₂ S ₄](PF ₆) ₂ . Journal of Coordination Chemistry, 1988, 18, 231-232.	2.2	0