

# Hiromi Tobita

## List of Publications by Year in descending order

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Reactivity of silylene complexes. Dalton Transactions, 2003, , 493-506.	3.3	223
2	Synthesis and Structure of a Hydrido(hydrosilylene)ruthenium Complex and Its Reactions with Nitriles. Angewandte Chemie - International Edition, 2007, 46, 8192-8194.	13.8	104
3	Hydrido(hydrosilylene)tungsten Complexes with Strong Interactions between the Silylene and Hydrido Ligands. Angewandte Chemie - International Edition, 2004, 43, 218-221.	13.8	103
4	Stoichiometric Hydrosilylation of Nitriles with Hydrido(hydrosilylene)tungsten Complexes: Formation of W <sup>+</sup> Si <sup>-</sup> N Three-Membered Ring Complexes and Their Unique Thermal Behaviors. Journal of the American Chemical Society, 2006, 128, 2176-2177.	13.7	78
5	Preparation of endohedral fullerene containing lithium (Li@C60) and isolation as pure hexafluorophosphate salt ([Li+@C60][PF6 <sup>-</sup> ]). RSC Advances, 2012, 2, 10624.	3.6	75
6	Direct Evidence for Extremely Facile 1,2- and 1,3-Group Migrations in an FeSi2 System. Angewandte Chemie - International Edition, 2004, 43, 221-224.	13.8	74
7	Insertion of a Cationic Metallogermylene into E-H Bonds (E = H, B, Si). Journal of the American Chemical Society, 2015, 137, 11935-11937.	13.7	74
8	Formation of a Germylene Complex: Dehydrogenation of a Hydrido(hydrogermylene)tungsten Complex with Mesityl Isocyanate. Angewandte Chemie - International Edition, 2012, 51, 2930-2933.	13.8	55
9	Synthesis of a Tungsten-Silylene Complex via Stepwise Proton and Hydride Abstraction from a Hydrido Hydrosilylene Complex. Organometallics, 2016, 35, 921-924.	2.3	42
10	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{SiMe2 <sup>+</sup> ·O(Me) <sup>-</sup> ·SiMe2 <sup>-</sup> } (M = Ru, Fe). Organometallics, 1998, 17, 2844-2849.	2.3	40
11	Reactions of a Neutral Silylene Ruthenium Complex with Heterocumulenes: C=O Hydrosilylation of Isocyanates vs C-S Bond Cleavage of Isothiocyanate. Organometallics, 2012, 31, 527-530.	2.3	39
12	Double and Single Hydroboration of Nitriles Catalyzed by a Ruthenium-Bis(silyl)xanthene Complex: Application to One-Pot Synthesis of Diarylamines and <i>N</i> -Arylimines. Organometallics, 2019, 38, 1417-1420.	2.3	39
13	Reactions of a Silyl(silylene)iron Complex with Nitriles: Carbon-Carbon Bond Cleavage of Nitriles by the Transiently Generated Disilanyliron(II) Intermediate. Organometallics, 2006, 25, 472-476.	2.3	38
14	Synthesis and Structure of a Hydrido(hydrogermylene)tungsten Complex and Its Reactions with Nitriles and Ketones. Chemistry Letters, 2009, 38, 1196-1197.	1.3	38
15	Hydrido(hydrosilylene)tungsten Complexes: Dynamic Behavior and Reactivity Toward Acetone. Chemistry - an Asian Journal, 2012, 7, 1408-1416.	3.3	37
16	Recent advances in the chemistry of transition metal-silicon/germanium triple-bonded complexes. Coordination Chemistry Reviews, 2018, 355, 362-379.	18.8	36
17	Reactions of a hydrido(hydrosilylene)ruthenium complex with carbonyl compounds. Dalton Transactions, 2009, , 1812.	3.3	35
18	Reactions of Hydrido(hydrosilylene)tungsten Complexes with $\alpha,\beta$ -Unsaturated Carbonyl Compounds: Selective Formation of $\beta$ -Siloxyallyl)tungsten Complexes. Journal of the American Chemical Society, 2007, 129, 11338-11339.	13.7	34

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19	Synthesis of Cationic Germyleneiron Complexes and X-ray Structure of [Cp*(CO) <sub>2</sub> FeGeMe <sub>2</sub> ·DMAP]BPh <sub>4</sub> ·CH <sub>3</sub> CN (Cp* = C <sub>5</sub> Me <sub>5</sub> , DMAP = 4-(Dimethylamino)pyridine). <i>Organometallics</i> , 1998, 17, 789-794.	2.3	33
20	Synthesis and Properties of Intramolecularly Base-Stabilized (Disilanyl)silylene)ruthenium and -iron Complexes. <i>Organometallics</i> , 1998, 17, 2850-2856.	2.3	32
21	A Nickel Complex Containing a Pyramidalized, Ambiphilic Pincer Germylene Ligand. <i>Chemistry - A European Journal</i> , 2019, 25, 13491-13495.	3.3	28
22	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
23	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
24	Synthesis and Structure of the {(2-Phosphinoethyl)silyl}-tris(tertiary phosphine)iridium(I) Complex Ir{[2-Me <sub>2</sub> Si(CH <sub>2</sub> ) <sub>2</sub> PPh <sub>2</sub> ](PMe <sub>3</sub> ) <sub>3</sub> }. <i>Organometallics</i> , 1996, 15, 2790-2793.	2.3	25
25	Intramolecular Aromatic C-H Bond Activation by a Silylene Ligand in a Methoxy-Bridged Bis(silylene)ruthenium Complex. <i>Organometallics</i> , 1997, 16, 3870-3872.	2.3	25
26	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
27	Reactions of a hydrido(hydrosilylene)tungsten complex with oxiranes. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 36-43.	1.8	25
28	Synthesis of Ruthenium Complexes with a Nonspectator Si,O,P-Chelate Ligand: Interconversion between a Hydrido(silane) Complex and a Silyl Complex Leading to Catalytic Alkene Hydrogenation. <i>Organometallics</i> , 2015, 34, 1211-1217.	2.3	25
29	[Ru(xantsil)(CO)( <i>o</i> -toluene)]: Synthone 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
30	[Cp <sub>2</sub> Fe <sub>2</sub> (CO) <sub>3</sub> ( <i>o</i> -SiBu <sub>4</sub> -NMI)] <sub>2</sub> : The First Silanetriplydiiron Complex. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 843-844.	4.4	23
31	Insertion of Pyridine into an Iron-Silicon Bond and Photochemical Conversion of the Insertion Product Cp*(OC)Fe{[3(C,C,C)-C <sub>5</sub> H <sub>5</sub> NSiMe <sub>2</sub> NPh <sub>2</sub> ]} to a Sandwich Compound. <i>Organometallics</i> , 2006, 25, 6115-6124.	2.3	23
32	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
33	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
34	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,O,Si-Chelate Ligand, <i>o</i> -Xantsil. <i>Organometallics</i> , 2016, 35, 1209-1217.	2.3	22
35	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
36	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

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37	Reactivity of a Donor-Stabilized Bis(silylene)ruthenium Complex toward Nucleophiles ROH (R = Me, H). <i>Organometallics</i> , 1997, 16, 2200-2203.	2.3	20
38	Ru(xantsil)(CO)(PCy <sub>3</sub> ): 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
39	Synthesis of Base-Stabilized Hydrido(hydroborylene)tungsten Complexes and Their Reactions with Terminal Alkynes To Give $\lambda^3$ -Boraallyl Complexes. <i>Organometallics</i> , 2017, 36, 4816-4824.	2.3	20
40	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
41	Synthesis, structure, and reactivity of {(2-phosphinoethyl)silyl}rhodium(i) complexes Rh[( $\lambda^2$ Si,P)-Me <sub>2</sub> Si(CH <sub>2</sub> ) <sub>2</sub> PPH <sub>2</sub> ](PMe <sub>3</sub> ) <sub>n</sub> (n = 2, 3). <i>Dalton Transactions RSC</i> , 2002, , 2061-2068.	2.3	19
42	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
43	Thermal reaction of a ruthenium bis(silyl) complex having a lutidine-based Si,N,Si ligand: formation of a $\lambda^{1/4}$ -silyl( $\lambda^{1/4}$ -silylene) diruthenium complex involving a $3c \rightarrow 2e$ Ru $\cdots$ Si $\cdots$ C interaction. <i>Chemical Communications</i> , 2010, 46, 1136.	4.1	19
44	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
45	Photoreaction of Silyliron(II) Complex Cp*Fe(CO) <sub>2</sub> SiMe <sub>3</sub> (Cp* = $\eta^5$ -C <sub>5</sub> Me <sub>5</sub> ) in the Presence of p-Tolylgermane. <i>Organometallics</i> , 1996, 15, 4954-4958.	2.3	17
46	Silane(silyl) and Bis(silyl)hydrido Manganese Complexes with Different Mn $\cdots$ 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
47	Synthesis and Characterization of $\lambda^2$ C,N-N-Silyliminoacyl Tungsten Complexes Cp*(CO) <sub>2</sub> W( $\lambda^2$ C,N-C(R) $\lambda^2$ NSiR <sup>n</sup> ) <sub>3</sub> [R = Me, Et, i-Pr, t-Bu; R <sup>n</sup> = (p-Tol) <sub>2</sub> Me, (p-Tol) <sub>3</sub> , Et <sub>3</sub> ; Cp* = $\eta^5$ -C <sub>5</sub> Me <sub>5</sub> ]: Thermally Induced Carbon $\cdots$ Carbon Bond Cleavage of Their Iminoacyl Ligands. <i>Organometallics</i> , 2010, 29, 1839-1848.	2.3	15
48	Silyl $\cdots$ pyridine $\cdots$ amine pincer-ligated iridium complexes for catalytic silane deuteration <i>via</i> room temperature C $\cdots$ D bond activation of benzene- <i>d</i> <sub>6</sub> . <i>Chemical Communications</i> , 2019, 55, 957-960.	4.1	14
49	Reactions of M[( $\eta^5$ -C <sub>5</sub> Me <sub>5</sub> )Fe(CO) <sub>2</sub> ] with ClSiMe <sub>2</sub> NR <sub>2</sub> in THF, Et <sub>2</sub> O and toluene (M = Li and K; R = Me, Et.) <i>Tj ETQq</i> 1.1 0.784314 rgBT 13	3.3	13
50	Direct Conversion of a Si $\cdots$ C(aryl) Bond to Si $\cdots$ Heteroatom Bonds in the Reactions of $\lambda^3$ -Silabenzyl Molybdenum and Tungsten Complexes with 2-Substituted Pyridines. <i>Organometallics</i> , 2015, 34, 3699-3705.	2.3	11
51	Reactions of a Silylyne Complex with Aldehydes: Formation of W $\cdots$ Si $\cdots$ O $\cdots$ C Four $\cdots$ Membered Metallacycles and Their Metathesis $\cdots$ Like Fragmentation. <i>Chemistry - A European Journal</i> , 2019, 25, 3795-3798.	3.3	11
52	Novel Reaction of Silyl Carbonyl Complexes with Hydride-Transfer Reagents: $\alpha$ % Reduction of a Carbonyl Ligand and Coupling with a Silyl Group. <i>Organometallics</i> , 1998, 17, 3497-3504.	2.3	10
53	Dimerization of Phosphasilaferracycles: Formation and Structures of Isomeric Fe <sub>2</sub> Si <sub>2</sub> P <sub>2</sub> Six-Membered Metallacycles. <i>Organometallics</i> , 2004, 23, 1971-1973.	2.3	10
54	Reactivity of Phosphasilametallacyclopropane toward Substrates with Polarized E $\cdots$ H Bonds (E = O, N,) <i>Tj ETQq</i> 0.0 rgBT /Overlock 10	2.3	10

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55	( $\eta^3$ -Silabenzyl)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
56	Thermal and Photochemical Reactions of a Cationic Rhenocene $\pi$ -Acetonitrile Adduct: The First C-H Bond Activation by Rhenocene Cation. <i>Organometallics</i> , 1998, 17, 3405-3407.	2.3	9
57	Synthesis of a Base-stabilized (Chlorogermyl)metallogermylene and Its Photochemical Conversion to a (Chlorogermyl)germylene Complex. <i>Chemistry Letters</i> , 2013, 42, 43-44.	1.3	9
58	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
59	Synthesis, Structure, and Reactions of a ( $\eta^3$ -silabenzyl)molybdenum Complex: A Synthetic Equivalent of a Coordinatively Unsaturated Silyl Complex. <i>Organometallics</i> , 2013, 32, 2795-2803.	2.3	8
60	Catalysts for Regio- and Stereoselective C(sp <sup>3</sup> )-H Deuteration of Tricyclohexylphosphine with Benzene- <i>d</i> <sub>6</sub> 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
61	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
62	Products of [2+2] Cycloaddition between a W $\pi$ -Si Triple-bonded Complex and Alkynes: Isolation, Structure, and Non-classical Bonding Interaction. <i>Chemistry Letters</i> , 2020, 49, 311-314.	1.3	6
63	[Cp <sub>2</sub> Fe <sub>2</sub> (CO) <sub>3</sub> ( $\eta^4$ -Si <sub>4</sub> t-Bu $\cdot$ NMI)] <sub>2</sub> , der erste Silantrilyl-eisenkomplex. <i>Angewandte Chemie</i> , 1991, 103, 877-878.	2.0	4
64	Bifunctional Rhodium Complex Featuring a Silyl $\pi$ -1,8-naphthyridine Si-N-Chelate Ligand: Cooperation of Metal and Pendant Base for Capture and Bond-weakening of BH <sub>3</sub> . <i>Chemistry Letters</i> , 2020, 49, 1431-1434.	1.3	3
65	Insertion of carbon monoxide into an aldehyde C=O double bond induced by an ( $\eta^3$ -silabenzyl)carbonylmolybdenum complex. <i>RSC Advances</i> , 2014, 4, 19068-19071.	3.6	2
66	Diruthenium Complexes with a 1,8-Naphthyridine-based Bis(silyl) Supporting Ligand: Synthesis and Structures of Complexes Containing Ru <sup>II</sup> <sub>2</sub> ( $\eta^4$ -H) <sub>2</sub> and Ru <sup>I</sup> <sub>2</sub> Cores. <i>Chemistry Letters</i> , 2018, 47, 400-403.	1.3	2
67	C-H bond activation of benzene and thiophene by photochemically generated rhenocene cation. <i>International Journal of Photoenergy</i> , 1999, 1, 157-160.	2.5	1
68	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
69	Synthesis and Crystal Structure of [(n <sup>5</sup> -C <sub>5</sub> Me <sub>5</sub> ) <sub>2</sub> Fe <sub>2</sub> S <sub>4</sub> ](PF <sub>6</sub> ) <sub>2</sub> . <i>Journal of Coordination Chemistry</i> , 1988, 18, 231-232.	2.2	0