

Hiroharu Suzuki

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis, Structure, and Chemistry of a Dinuclear Tetrahydride-Bridged Complex of Ruthenium, ($\eta^5\text{-C}_5\text{Me}_5$)Ru($\mu\text{-H}$) $_4$ Ru($\eta^5\text{-C}_5\text{Me}_5$). C-H Bond Activation and Coupling Reaction of Ethylene on Dinuclear Complexes. <i>Organometallics</i> , 1994, 13, 1129-1146.	2.3	138
2	Cleavage of Nitrogen-Hydrogen Bonds of Ammonia Induced by Triruthenium Polyhydrido Clusters. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 950-952.	13.8	106
3	Selective Carbon-Carbon Bond Cleavage of Cyclopentadiene on a Trinuclear Ruthenium Pentahydride Complex. <i>Journal of the American Chemical Society</i> , 1994, 116, 10779-10780.	13.7	92
4	Activation of Organic Substrates on Multi-Metallic Sites of Transition Metal Polyhydride Clusters Having C_5Me_5 Groups as Auxiliary Ligands. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1009-1023.	2.0	92
5	A Novel Type of Carbon-Carbon Double Bond Cleavage of 1,1-Disubstituted Alkenes on a Triruthenium Polyhydrido Cluster. <i>Journal of the American Chemical Society</i> , 2001, 123, 1762-1763.	13.7	84
6	Intermolecular Activation of n -Alkanes by a Trinuclear Ruthenium Pentahydride Complex Formation of $\text{clo-RuH}(\eta^5\text{-C}_5\text{Me}_5)_2$ Complexes. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 404-406.	13.8	77
7	Synthesis, Characterization, and Reactivities of Diruthenium Complexes Containing a μ -Silane Ligand and Structural Studies of the μ -Silane Complex $[\text{Cp}^*\text{Ru}(\text{CO})]_2(\mu\text{-}\eta^2\text{-}\eta^2\text{-H}_2\text{SiBu}_2)$. <i>Organometallics</i> , 1995, 14, 3855-3868.	2.3	76
8	Synthesis, Structures, and Reactions of Coordinatively Unsaturated Trinuclear Ruthenium Polyhydrido Complexes, $[\{\text{Ru}(\text{C}_5\text{Me}_5)\}_3(\mu\text{-H})_6](\text{Y})$ ($\text{Y} = \text{BF}_4, \text{CF}_3\text{SO}_3, 1/2(\text{SO}_4), \text{C}_6\text{H}_5\text{CO}_2, \text{CH}_3\text{CO}_2, \text{B}(\text{C}_6\text{H}_5)_4, \text{B}(\text{C}_6\text{H}_5)_3, \text{EtO}^-\text{C}_6\text{H}_4\text{O}^-$).	13.7	70
9	A novel dinuclear tetrahydride bridged ruthenium complex, ($\eta^5\text{-C}_5\text{Me}_5$)Ru($\mu\text{-H}$) $_4$ Ru($\eta^5\text{-C}_5\text{Me}_5$). <i>Organometallics</i> , 1988, 7, 2243-2245.	2.3	65
10	Trinuclear Ruthenium Complex with a Face-Capping Benzene Ligand. Hapticity Change Induced by Two-Electron Redox Reaction. <i>Journal of the American Chemical Society</i> , 1997, 119, 625-626.	13.7	63
11	Cleavage of Carbon-Sulfur Bonds of Benzothiophene and Dibenzothiophene Mediated by Trinuclear Pentahydride Complex of Ruthenium $\{(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}\}_3(\mu\text{-H})_3(\mu\text{-}\eta^3\text{-H})_2$. <i>Journal of the American Chemical Society</i> , 1998, 120, 1108-1109.	13.7	58
12	Novel Trinuclear Trihydride Complexes of Ruthenium Having a Triply Bridging Borylene Ligand, $\{(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}\}_3(\mu\text{-H})_3(\mu\text{-}\eta^3\text{-BX})$ ($\text{X} = \text{H}, \text{CN}, \text{OMe}, \text{OEt}$). Synthesis, Structure Determination, and Reaction with Benzothiophene. <i>Organometallics</i> , 2001, 20, 4772-4774.	2.3	58
13	Phosphorus-carbon bond activation of triphenylphosphine. Formation of a dinuclear $\mu\text{-}\eta^2\text{-}\eta^2\text{-benzene}$ complex of ruthenium. <i>Organometallics</i> , 1989, 8, 2270-2272.	2.3	49
14	Heterobimetallic Polyhydride Complex Containing Ruthenium and Iridium. Synthesis and Site-Selectivity in the Reaction with Unsaturated Hydrocarbons. <i>Organometallics</i> , 2000, 19, 2420-2422.	2.3	44
15	Novel Dinuclear ($\eta^3\text{-Hydrido}$)($\eta^3\text{-alkylideneamido}$)ruthenium Complexes, $[(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}]_2(\mu\text{-L})(\mu\text{-H})(\mu\text{-NCHR})$ ($\text{R} = \text{Et}, \text{Pr}, \text{Bu}, \text{Ph}$). Coupling of Ethylene in a Dinuclear Ruthenium Complex. <i>Organometallics</i> , 1996, 15, 2422-2424.	2.3	43
16	Regioselective C-H Bond Activation of Alkanes by a Trinuclear Ruthenium Trihydride Complex Having a $\eta^3\text{-Sulfido}$ Ligand. <i>Journal of the American Chemical Society</i> , 1999, 121, 7421-7422.	13.7	42
17	Skeletal Rearrangement of a C_2 Unit on a Triruthenium Cluster. Synthesis of $\eta^3\text{-Ethylidene}$, $\eta^3\text{-Ethylidyne}$, and $\eta^3\text{-Vinylidene}$ Complexes by the Reaction of $\{\text{Cp}^*\text{Ru}(\eta^3\text{-H})\}_3(\mu\text{-}\eta^3\text{-H})_2$ with Acetylene. <i>Organometallics</i> , 2002, 21, 5190-5203.	2.3	39
18	Trinuclear Ruthenium Polyhydride Complexes with a Triply Bridging Ligand: $[\{(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}\}_3(\mu\text{-H})_3(\mu\text{-}\eta^3\text{-M})]$ ($\text{M} = \text{Li}, \text{Mg}^{\text{IPr}}$, and ZnEt) and $[\{(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}\}_3(\mu\text{-H})_3(\mu\text{-}\eta^3\text{-M})]$ ($\text{M} = \text{AlEt}$ and TiEt).	13.7	38

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19	Nitrogen-Nitrogen Bond Cleavage of Hydrazine Derivatives by a Trinuclear Pentahydride Complex of Ruthenium, $(\text{Cp}^*\text{Ru})_3(\eta^4\text{-H})_3(\eta^4\text{-H})_2$ ($\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$). <i>Organometallics</i> , 2003, 22, 959-969.	2.3	37
20	$\{(\eta^5\text{-C}_5\text{Me}_5)\text{Fe}\}_2(\eta^4\text{-H})_2(\eta^4\text{-H})_2(\eta^2\text{-H}_2\text{SitBu}_2)$, a Versatile Precursor for Bimetallic Active Species. <i>Organometallics</i> , 2001, 20, 2654-2656.	2.3	35
21	Successive Si-H/Si-C Bond Cleavage of Tertiary Silanes on Diruthenium Centers. Reactivities and Fluxional Behavior of the Bis(η^4 -silylene) Complexes Containing η^4 -Hydride Ligands. <i>Organometallics</i> , 2003, 22, 3855-3876.	2.3	35
22	Formation of Novel Trinuclear η^4 -s-cis- η^2 -1,3-Diene Complexes of Ruthenium Having an Agostic Ru-H Interaction. Direct Evidence for Diene Activation in Cooperation with the Three Metal Centers. <i>Organometallics</i> , 1996, 15, 4346-4348.	2.3	34
23	Nitrogen-Nitrogen Double Bond Cleavage of Azobenzene by a Triruthenium Pentahydrido Complex, $(\text{Cp}^*\text{Ru})_3(\eta^4\text{-H})_2(\eta^4\text{-H})_3$ ($\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$), and Catalytic Hydrogenation of Azobenzene and 1,2-Diphenylhydrazine. <i>Organometallics</i> , 2005, 24, 1860-1866.	2.3	34
24	Cleavage of the C $\frac{1}{2}$ N Bond on a Triruthenium Cluster: Synthesis and Structure of a Triruthenium Complex Containing a η^4 -Nitrido Ligand. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 485-488.	13.8	34
25	Synthesis of Triruthenium Complexes Containing a Triply Bridging Pyridyl Ligand and Its Transformations to Face-Capping Pyridine and Perpendicularly Coordinated Pyridyl Ligands. <i>Organometallics</i> , 2012, 31, 4817-4831.	2.3	32
26	Reductive Cleavage of the N-N Bond of Hydrazine Induced by a Cationic Trinuclear Ruthenium Hexahydride Complex, $[(\text{Cp}^*\text{Ru})_3(\eta^4\text{-H})_6]\text{X}$ ($\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$; X = 1/2 SO ₄ , BF ₄ , PF ₆ , BPh ₄) and Dihydrogen. <i>Organometallics</i> , 2004, 23, 4040-4046.	2.3	31
27	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. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2994.	13.8	30
28	Heterometallic Trinuclear Polyhydrido Complexes Containing Ruthenium and a Group 9 Metal, $[\text{Cp}^*3\text{Ru}_2\text{M}(\eta^4\text{-H})_3(\eta^4\text{-H})_3]$ (M = Ir or Rh; Cp* = $\eta^5\text{-C}_5\text{Me}_5$) with Phosphines. <i>Organometallics</i> , 2009, 28, 871-881.	2.3	27
29	Fluxional Behavior of a Perpendicularly Coordinated η^4 -Alkyne Ligand on a Triruthenium Cluster. Synthesis and Structure of a η^4 - η^2 -(η^5)-Cycloalkyne Complex. <i>Organometallics</i> , 2004, 23, 6090-6093.	2.3	26
30	Synthesis, Characterization, and Structure Determination of the Heterobimetallic Polyhydride Complexes $(\text{C}_5\text{Me}_5)\text{Ru}(\eta^4\text{-H})_3\text{MH}_3(\text{C}_5\text{Me}_5)$ (M = Mo, W) Containing Group VI and Group VIII Metals. <i>Organometallics</i> , 2001, 20, 10-12.	2.3	25
31	Versatile and Cooperative Reactivity of a Triruthenium Polyhydride Cluster. A Computational Study. <i>Journal of the American Chemical Society</i> , 2003, 125, 9910-9911.	13.7	25
32	Arylation of Hydrocarbyl Ligands Formed from $\text{C}\equiv\text{H}$ Alkanes through C-H Bond Activation of Benzene Using a Triruthenium Cluster. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3393-3397.	2.0	24
33	Skeletal Rearrangement in the Trinuclearido-Ruthenacyclopentadiene Complexes: A Theoretical and Experimental Studies. <i>Organometallics</i> , 2003, 22, 1718-1727.	2.3	23
34	Synthesis and Characterization of Triruthenium Complexes Containing a Perpendicularly Coordinated Alkyne Ligand. <i>Organometallics</i> , 2004, 23, 6094-6096.	2.3	23
35	Synthesis and Structure of a Triruthenium Complex Containing a Face-Capping Pyridine Ligand. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7615-7618.	13.8	23
36	Synthesis and Property of Diruthenium Complexes Containing Bridging Cyclic Diene Ligands and the Reaction of Diruthenium Tetrahydrido Complex with Benzene Forming a η^4 - η^2 -Cyclohexadiene Complex via Partial Hydrogenation on a Ru_2 Center. <i>Organometallics</i> , 2011, 30, 5057-5067.	2.3	23

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37	Thermal Skeletal Rearrangement of a nido-Ruthenacyclopentadiene Complex Involving Reversible Rupture and Formation of a Ruthenium–Ruthenium Bond. <i>Organometallics</i> , 2003, 22, 2196-2198.	2.3	19
38	Activation of Linear Alkanes by a Hydrido Triruthenium Cluster and Associated Skeletal Rearrangements. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 443-458.	3.2	19
39	Rational Synthesis of Tetranuclear Ruthenium Polyhydride Clusters and Their Mixed-Ligand Analogues. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4085-4087.	13.8	18
40	Redox-Induced Reversible Rearrangement of a Dimetallaallyl Ligand on the Trinuclear Cluster of Ruthenium. Mechanistic Aspects of Formation of the Face-Capping η^3 -C ₃ Ring on the Triruthenium Plane. <i>Organometallics</i> , 2007, 26, 1349-1360.	2.3	18
41	Synthesis, structure, and property of a triruthenium cluster having a η^4 -alkyl ligand: Transformation of a η^3 -alkyne ligand into a η^4 -alkyl ligand via a η^3 -vinylidene complex. <i>Journal of Organometallic Chemistry</i> , 1.8 2007, 692, 442-454.		18
42	Novel dinuclear dihydride complexes of ruthenium containing bridging carboxylate ligands. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 283.	2.0	17
43	Bimetallic Reductive C–C Coupling Reaction Induced by Chemical Oxidation: Formation of a η^3 -C ₃ Ring on a Triruthenium Cluster. <i>Organometallics</i> , 2003, 22, 1361-1363.	2.3	17
44	Synthesis and Structure of a Triruthenium Complex Containing a Perpendicularly Coordinated η^3 -Nitrile Ligand and Its Protonation To Yield a Perpendicularly Coordinated Iminoacyl Ligand. <i>Organometallics</i> , 2005, 24, 3371-3374.	2.3	17
45	Heterometallic Effects in Nitrogen–Hydrogen Bond Cleavage by Trinuclear Mixed-Metal Polyhydrido Clusters Containing Ruthenium and Osmium. <i>Organometallics</i> , 2011, 30, 6703-6712.	2.3	17
46	Formation of a Boraruthenacyclopentenyl Skeleton via B–C Bond Formation across a Triruthenium Plane. <i>Organometallics</i> , 2012, 31, 1825-1831.	2.3	17
47	Metathesis Reaction of Hydrocarbyl Ligands across the Triruthenium Plane. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5898-5901.	13.8	16
48	Synthesis of Trinuclear Osmium Polyhydrido Clusters $[(C_5Me_5)_3Os(\eta^4-H)_6]^+$ and $[(C_5Me_5)_3Os(\eta^4-H)_3(\eta^3-C_3-H)_2]^+$ and Comparison with the Ruthenium Analogues. <i>Organometallics</i> , 2008, 27, 4248-4253.	2.3	15
49	Dehydrogenative Coupling of 4-Substituted Pyridines Catalyzed by a Trinuclear Complex of Ruthenium and Cobalt. <i>Organometallics</i> , 2016, 35, 2348-2360.	2.3	15
50	Catalytic Hydrogenation of Benzonitrile by Triruthenium Clusters: Consecutive Transformations of Benzonitrile on the Face of a Ru ₃ Plane. <i>Organometallics</i> , 2018, 37, 1598-1614.	2.3	15
51	Alkane activation on a multimetallic site. <i>Pure and Applied Chemistry</i> , 2001, 73, 315-318.	1.9	14
52	Intramolecular Borylene Transfer Leading to the Formation of a η^3 -BC ₂ Ring on a Triruthenium Cluster. <i>Organometallics</i> , 2013, 32, 737-740.	2.3	14
53	A Triruthenium Complex Capped by a Triply Bridging Oxoboryl Ligand. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11884-11887.	13.8	14
54	Synthesis of an Electron-Deficient Triruthenium Hydrido Complex Having a Bridging Carbonyl Ligand: Influence of a CO Ligand on the Properties and Reactivities of a Hydrido Cluster. <i>Organometallics</i> , 2017, 36, 3539-3552.	2.3	13

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55	Reactions of a Triruthenium Pentahydrido Complex with Imines Leading to the Formation of a Perpendicularly Coordinated Iminoacyl Ligand and the Scission of a C α -N Bond on a Triruthenium Plane. <i>Organometallics</i> , 2012, 31, 1917-1926.	2.3	12
56	Synthesis and Dynamic Properties of a Triruthenium Complex Containing η^3 - η^2 -(η^5)-Ethyne and η^3 -Methyldiylne Ligands: Equilibrium of an Ethyne η^3 -Hydrido Complex with a Nonclassical η^3 -Vinyl Complex. <i>Organometallics</i> , 2013, 32, 260-271.	2.3	12
57	Synthesis and Properties of Diruthenium Tetrahydrides Supported by Less-substituted, Sterically Demanding Poly- <i>tert</i> -butylated Cyclopentadienyls. <i>Chemistry Letters</i> , 2013, 42, 1403-1405.	1.3	11
58	Isomerization of Organic Substrates Catalyzed by Ruthenium Complexes. , 2005, , 309-331.		10
59	Insertion of Acetylene and Nitriles into a Ru \sim C Bond of a Dicationic Triruthenium Complex Having a η^3 - η^3 -C \sim C Ring: Formation of Six-Membered Ruthenacycles on a Triruthenium Core. <i>Organometallics</i> , 2008, 27, 1044-1054.	2.3	10
60	Bimetallic Activation of α -Alkanones through Photoinduced α -Hydrogen Abstraction Mediated by a Dinuclear Ruthenium Tetrahydride Complex. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1773-1776.	13.8	8
61	Synthesis of a Heterometallic Trinuclear Cluster of Ruthenium and Platinum with a Linear Alignment. <i>Organometallics</i> , 2016, 35, 2543-2556.	2.3	8
62	Synthesis and characterisation of tetranuclear ruthenium polyhydrido clusters with pseudo-tetrahedral geometry. <i>Dalton Transactions</i> , 2017, 46, 5631-5643.	3.3	8
63	η^3 - η^2 - η^2 - η^2 -Coordination of Primary Silane on a Triruthenium Plane. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14871-14874.	13.8	6
64	Activation of Acyclic and Cyclic Conjugated Dienes in Cooperation with the Three Metal Centers.. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 1999, 57, 935-944.	0.1	4
65	Selective Incorporation of Primary Amines into a Trizirconium Imido System and Catalytic Cyclization of Aminoalkynes. <i>Inorganic Chemistry</i> , 2017, 56, 9802-9813.	4.0	3
66	Activation of Organic Substrates on Multi-Metallic Sites of Transition Metal Polyhydride Clusters Having C \sim Me \sim Groups as Auxiliary Ligands. , 2002, 2002, 1009.		2
67	Four-Electron Reduction of Dioxygen on a Metal Surface: Models of Dissociative and Associative Mechanisms in a Homogeneous System. <i>Inorganic Chemistry</i> , 2021, 60, 1550-1560.	4.0	1
68	Bimetallic Activation in the Reaction of Dinuclear Ruthenium Complexes with Ethylene. <i>Journal of Computer Chemistry Japan</i> , 2012, 11, 125-130.	0.1	0