Toshihiro Takao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mono- and Bis-cyclopentadienyl Complexes of Ruthenium and Osmium. , 2022, , .		2
2	Formation of an Azaruthenacyclopentadiene Skeleton via Ammonia Activation by an Electronâ€Deficient Ru ₃ Cluster. Chemistry - A European Journal, 2022, , e202200327.	3.3	0
3	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
4	Synthesis of Diruthenium μ-Chloromethylidyne Complex: C–C Bond Formation at the Bridging Carbon Atom via the Reduction of a μ-Chloromethylidyne Ligand. Organometallics, 2021, 40, 467-471.	2.3	6
5	Syntheses and Properties of Triruthenium Polyhydrido Complexes Composed of 1,2,4-tri-tert-butylcyclopentadienyl and p-Cymene Ruthenium Units. Organometallics, 2021, 40, 1303-1313.	2.3	1
6	Câ^'C Bond Formation between the μâ€Alkylidyne Ligands in a Diruthenium Bis(μâ€alkylidyne) Complex; σ― Ï€â€Aromaticity of the Ru 2 C 2 Core. European Journal of Inorganic Chemistry, 2021, 2021, 2505-2513.	and 2.0	0
7	Intramolecular Nitrene Transfer via the C≡N Bond Cleavage of Acetonitrile to a μ ₃ -Alkylidyne Ligand on a Cationic Triruthenium Plane. Organometallics, 2020, 39, 2888-2899.	2.3	3
8	Reversible Transformation of a μ ₃ -Î ³ -C ₃ Ring into μ ₃ -Î ² -Ethyne and μ-Vinylidene Ligands at a Triruthenium Site upon Deprotonation and Protonation. Organometallics, 2020, 39, 4637-4644.	2.3	1
9	Reaction of a Triruthenium μ ₃ -Borylene Complex with Benzonitrile: Formation of a μ ₃ -η ³ -BCN Ring on a Cationic Ru ₃ Plane via Photo-Induced Intramolecular Borylene Transfer. Organometallics, 2020, 39, 593-604.	2.3	3
10	Transformation of Pyridines and Cyclic Amines at an Electron-Rich Diruthenium Site. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2020, 78, 327-337.	0.1	0
11	Synthesis of a heterometallic spiked tetrahedral cluster of ruthenium and nickel containing multiple hydrido ligands and its degradation to a tetrahedral NiRu3 cluster. Journal of Organometallic Chemistry, 2019, 882, 70-79.	1.8	1
12	Selective Synthesis of a Triruthenium Pentahydrido Complex with Mixed-Cp Ligands (C ₅ <i>^t</i> Bu ₃ H ₂ and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Fluxionality of a Face-Capping Benzene Ligand Induced by Oxidation. Organometallics, 2019, 38,	С 307 Td 2.3	(C ₅₂
13	3824-3833. Formation of a μ ₃ -Acetylide on a Ru ₃ Cluster via Coupling of μ-Methylene with Isocyanide Accompanied by Elimination of Amine: A Model of Hydrogen-Assisted C–C Bond Formation on a Metal Surface. Organometallics, 2019, 38, 2705-2709.	2.3	3
14	Synthesis and Properties of a Triruthenium Hydrido Complex Capped by a μ3-Oxoboryl Ligand. Organometallics, 2019, 38, 2239-2249.	2.3	3
15	Diruthenium complexes having a partially hydrogenated bipyridine ligand: plausible mechanism for the dehydrogenative coupling of pyridines at a diruthenium site. Faraday Discussions, 2019, 220, 249-268.	3.2	2
16	Effect of ring size on the properties of μ3-Cycloalkyne complexes: Synthesis of triruthenium complexes containing a perpendicularly coordinated μ3-Allenyl ligand. Journal of Organometallic Chemistry, 2019, 885, 7-20.	1.8	3
17	Transformation of a μ ₃ -Benzyne Ligand into Phenol on a Cationic Triruthenium Cluster Supported by a μ ₃ -Sulfido Ligand. Organometallics, 2019, 38, 527-535.	2.3	3
18	Ïf-Coordination of a P–H Bond at a Sterically Demanding Diruthenium Site: Tautomerization between Agostic μ-Phosphane and μ-Phosphanido Complexes via an Î∙ ² -P–H Bond Cleavage. Organometallics, 2018, 37, 290-293.	2.3	3

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19	Catalytic Hydrogenation of Benzonitrile by Triruthenium Clusters: Consecutive Transformations of Benzonitrile on the Face of a Ru ₃ Plane. Organometallics, 2018, 37, 1598-1614.	2.3	15
20	Synthesis and characterisation of tetranuclear ruthenium polyhydrido clusters with pseudo-tetrahedral geometry. Dalton Transactions, 2017, 46, 5631-5643.	3.3	8
21	Dehydrogenative Oxidation of Cyclic Amines on a Diruthenium Complex. Organometallics, 2017, 36, 1893-1896.	2.3	5
22	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. Organometallics, 2017, 36, 3539-3552.	2.3	13
23	Preparation of Bis(μ ₃ -silylyne) Complexes via Consecutive Si–H Bond Cleavage at a Triruthenium Site. Organometallics, 2017, 36, 3774-3783.	2.3	2
24	Half-sandwich Cyclopentadienyl Iridium Dichloride Monomer Cp ^{â€i} IrCl ₂ (Cp ^{â€i} : 1,2,4-tri- <i>tert</i> -butylcyclopentadienyl). Chemistry Letters, 2017, 46, 197-199.	1.3	4
25	Dehydrogenative Coupling of 4-Substituted Pyridines Catalyzed by a Trinuclear Complex of Ruthenium and Cobalt. Organometallics, 2016, 35, 2348-2360.	2.3	15
26	Modified synthesis of mixed-ligand dinuclear Ru–Ir, Ru–Rh, and Ru–Ru polyhydride-bridged complexes, CpsRuH3ML (CpsÂ=ÂC5Me5 (Cp*), C5Bu3H2 (Cp‡); MÂ=ÂRh, Ir, Ru; LÂ=ÂC5(CH3)5, C6H6, p-CH3C6H4CH(CH Journal of Organometallic Chemistry, 2016, 818, 168-178.	31)28).	4
27	Synthesis of a Heterometallic Trinuclear Cluster of Ruthenium and Platinum with a Linear Alignment. Organometallics, 2016, 35, 2543-2556.	2.3	8
28	Photolysis of triruthenium μ3-alkyne complexes capped by a μ3-oxo ligand. Journal of Organometallic Chemistry, 2016, 812, 167-176.	1.8	4
29	Photoinduced Reactions of Diruthenium Tetrahydride Complexes: Carbon–Hydrogen Bond Cleavage of Tetrahydrofuran Leading to Bridging Cyclic Fischer-Type Carbene Complexes. Organometallics, 2016, 35, 1446-1457.	2.3	8
30	Versatile and highly efficient synthesis of diruthenium tetrahydride complex. Journal of Organometallic Chemistry, 2016, 801, 6-9.	1.8	7
31	μ 3 â€Î• 2 :η 2 :η 2 oordination of Primary Silane on a Triruthenium Plane. Angewandte Chemie, 2015, 127, 15084-15087.	2.0	2
32	μ 3 â€Î• 2 :η 2 :η 2 â€Coordination of Primary Silane on a Triruthenium Plane. Angewandte Chemie - International Edition, 2015, 54, 14871-14874.	13.8	6
33	Photochemical Reaction of Diruthenium Tetrahydride-Bridged Complexes with Carbon Dioxide: Insertion of CO ₂ into a Ru–H Bond versus Câ•O Double-Bond Cleavage. Organometallics, 2014, 33, 5066-5069.	2.3	20
34	Trinuclear μ ₃ -Silyl Complexes of Ruthenium and Group 9 Metals Having 3c-2e Interactions and Transformation of a μ ₃ -Silyl Complex of Ru ₂ Ir into μ-Silyl and μ ₃ -Silylene Complexes. Organometallics, 2014, 33, 7232-7240.	2.3	6
35	Synthesis, Characterization, and Reactions of Ruthenium(II), -(III), and -(IV) Complexes with Sterically Demanding 1,2,4-Tri- <i>tert</i> -butylcyclopentadienyl Ligands. Organometallics, 2014, 33, 289-301.	2.3	27
36	Activation of Linear Alkanes by a Hydrido Triruthenium Cluster and Associated Skeletal Rearrangements. Bulletin of the Chemical Society of Japan, 2014, 87, 443-458.	3.2	19

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37	Intramolecular Borylene Transfer Leading to the Formation of a μ ₃ -BC ₂ Ring on a Triruthenium Cluster. Organometallics, 2013, 32, 737-740.	2.3	14
38	Synthesis of a heterometallic trinuclear cluster of ruthenium and iridium containing a perpendicularly coordinated alkyne ligand and its dynamic behavior. Journal of Organometallic Chemistry, 2013, 725, 68-75.	1.8	5
39	Synthesis and Dynamic Properties of a Triruthenium Complex Containing μ ₃ -Î- ² (â`¥)-Ethyne and μ ₃ -Methylidyne Ligands: Equilibrium of an Ethyne–Hydrido Complex with a Nonclassical μ ₃ -Vinyl Complex. Organometallics, 2013, 32, 260-271.	2.3	12
40	A Triruthenium Complex Capped by a Triply Bridging Oxoboryl Ligand. Angewandte Chemie - International Edition, 2013, 52, 11884-11887.	13.8	14
41	Bimetallic Activation of 2â€Alkanones through Photoâ€Induced αâ€Hydrogen Abstraction Mediated by a Dinuclear Ruthenium Tetrahydride Complex. Angewandte Chemie - International Edition, 2013, 52, 1773-1776.	13.8	8
42	Formation of a Boraruthenacyclopentenyl Skeleton via B–C Bond Formation across a Triruthenium Plane. Organometallics, 2012, 31, 1825-1831.	2.3	17
43	Synthesis of Triruthenium Complexes Containing a Triply Bridging Pyridyl Ligand and Its Transformations to Face-Capping Pyridine and Perpendicularly Coordinated Pyridyl Ligands. Organometallics, 2012, 31, 4817-4831.	2.3	32
44	Synthesis of a Heterometallic Trinuclear Cluster Containing Ruthenium and Cobalt and Its Reactivity with Internal Alkynes. Organometallics, 2012, 31, 6547-6554.	2.3	12
45	Reactions of a Triruthenium Pentahydrido Complex with Imines Leading to the Formation of a Perpendicularly Coordinated Iminoacyl Ligand and the Scission of a Câ+N Bond on a Triruthenium Plane. Organometallics, 2012, 31, 1917-1926.	2.3	12
46	Skeletal rearrangement of hydrocarbyl ligands on a triruthenium core induced by chemical oxidation. Coordination Chemistry Reviews, 2012, 256, 695-708.	18.8	17
47	Synthesis and Property of Diruthenium Complexes Containing Bridging Cyclic Diene Ligands and the Reaction of Diruthenium Tetrahydrido Complex with Benzene Forming a μ-Î- ² :Î- ² :Cyclohexadiene Complex via Partial Hydrogenation on a Ru ₂ Center. Organometallics. 2011, 30, 5057-5067.	2.3	23
48	Metathesis Reaction of Hydrocarbyl Ligands across the Triruthenium Plane. Angewandte Chemie - International Edition, 2010, 49, 5898-5901.	13.8	16
49	Direct Arylation of a Cluster-Bound Alkyne Ligand with Benzene. Organometallics, 2010, 29, 4770-4773.	2.3	18
50	Arylation of Hydrocarbyl Ligands Formed from <i>n</i> â€Alkanes through C–H Bond Activation of Benzene Using a Triruthenium Cluster. European Journal of Inorganic Chemistry, 2009, 2009, 3393-3397.	2.0	24
51	Skeletal Rearrangement of a Hydrocarbyl Moiety on a Triruthenium Cluster. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2009, 67, 475-485.	0.1	2
52	Introduction of a Methoxy Group into a Hydrocarbyl Ligand Derived from a Linear Alkane on a Triruthenium Cluster via Chemical Oxidation. Organometallics, 2008, 27, 18-20.	2.3	12
53	Preparation and Properties of Diruthenium Hydrido Complexes Having a Bridging Benzoquinone Ligand: Formation of an Alcohol Adduct of a 1¼-1· ² :1· ² -Benzoquinone Complex through Hydrogen Bonding. Organometallics, 2008, 27, 4199-4206.	2.3	7
54	Insertion of Acetylene and Nitriles into a Ruâ^'C Bond of a Dicationic Triruthenium Complex Having a μ ₃ -Î ³ -C ₃ Ring: Formation of Six-Membered Ruthenacycles on a Triruthenium Core. Organometallics, 2008, 27, 1044-1054.	2.3	10

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55	Dehydrogenative Coupling of 4-Substituted Pyridines Catalyzed by Diruthenium Complexes. Journal of the American Chemical Society, 2007, 129, 11006-11007.	13.7	101
56	Redox-Induced Reversible Rearrangement of a Dimetallaallyl Ligand on the Trinuclear Cluster of Ruthenium. Mechanistic Aspects of Formation of the Face-Capping μ3-C3 Ring on the Triruthenium Plane. Organometallics, 2007, 26, 1349-1360.	2.3	18
57	Synthesis and Structure of Cationic Triruthenium Complexes Containing an Oxametallacycle: Reversible Carbonâ^'Oxygen Bond Formation and Scission on an Electron-Deficient Triruthenium Plane. Organometallics, 2007, 26, 1650-1657.	2.3	12
58	Synthesis, structure, and property of a triruthenium cluster having a μ-alkyl ligand: Transformation of a μ3(⊥)-alkyne ligand into a μ-alkyl ligand via a μ3-vinylidene complex. Journal of Organometallic Chemistry, 2007, 692, 442-454.	1.8	18
59	Oxidation-Induced Rearrangement from a nido- to a closo-Ruthenacyclopentadiene. Organometallics, 2006, 25, 5511-5514.	2.3	12
60	Cleavage of the CN Bond on a Triruthenium Cluster: Synthesis and Structure of a Triruthenium Complex Containing a μ3-Nitrido Ligand. Angewandte Chemie - International Edition, 2006, 45, 485-488.	13.8	34
61	Synthesis and Structure of a Triruthenium Complex Containing a Face-Capping Pyridine Ligand. Angewandte Chemie - International Edition, 2006, 45, 7615-7618.	13.8	23
62	Isomerization of Organic Substrates Catalyzed by Ruthenium Complexes. , 2005, , 309-331.		10
63	Synthesis, Structures, and Reactions of Coordinatively Unsaturated Trinuclear Ruthenium Polyhydrido Complexes, [{Ru(C5Me5)}3(μ-H)6](Y) (Y = BF4, CF3SO3, 1/2(SO4), C6H5CO2, CH3CO2, B(C6H5)4	,)3. T g ETQq	17 4 0.784 <mark>3</mark>]
64	Synthesis and Structure of a Triruthenium Complex Containing a Perpendicularly CoordinatedÎ1⁄43-η2:η2(⊥)-Nitrile Ligand and Its Protonation To Yield a Perpendicularly Coordinated Iminoacyl Ligand. Organometallics, 2005, 24, 3371-3374.	2.3	17
65	Substitution Reactions at a Bridging Silicon Ligand. Formation of a Bis(μ-silylene) Complex Containing a Trifluoroacetoxy Group. Mechanistic Studies of the Site-Exchange Process of the Hydride Ligands. Organometallics, 2005, 24, 521-532.	2.3	10
66	Synthesis and Characterization of Triruthenium Complexes Containing a Perpendicularly Coordinated Alkyne Ligand. Organometallics, 2004, 23, 6094-6096.	2.3	23
67	Fluxional Behavior of a Perpendicularly Coordinated μ3-Alkyne Ligand on a Triruthenium Cluster. Synthesis and Structure of a μ3-η2:η2(⊥)-Cycloalkyne Complex. Organometallics, 2004, 23, 6090-6093.	2.3	26
68	Thermal Skeletal Rearrangement of a nido-Ruthenacyclopentadiene Complex Involving Reversible Rupture and Formation of a Rutheniumâ^'Ruthenium Bond. Organometallics, 2003, 22, 2196-2198.	2.3	19
69	Bimetallic Reductive Câ^'C Coupling Reaction Induced by Chemical Oxidation:  Formation of a μ3-C3 Ring on a Triruthenium Cluster. Organometallics, 2003, 22, 1361-1363.	2.3	17
70	Successive Siâ^'H/Siâ^'C Bond Cleavage of Tertiary Silanes on Diruthenium Centers. Reactivities and Fluxional Behavior of the Bis(μ-silylene) Complexes Containing μ-Hydride Ligandsâ€. Organometallics, 2003, 22, 3855-3876.	2.3	35
71	Skeletal Rearrangement of a C2Unit on a Triruthenium Cluster. Synthesis of μ-Ethylidene, μ3-Ethylidyne, and μ3-Vinylidene Complexes by the Reaction of {Cp*Ru(μ-H)}3(μ3-H)2with Acetylene. Organometallics, 2002, 21, 5190-5203.	2.3	39
72	Reactions of Diruthenium Tetrahydride Complex (η5-C5Me5)Ru(μ-H)4Ru(η5-C5Me5) with Vinylsilanes:Â Formation of a μ-Silylene Complex via Successive Siâ^'H and Siâ^'C Bond Cleavage of Dimethylvinylsilane. Organometallics, 2001, 20, 3406-3422.	2.3	29

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73	Protonation of Bis-μ-diethylsilyl Complex {(C5Me5)Ru(μ-η2-HSiEt2)}2(μ-H)(H): Enhancement of Bonding Interaction between Bridging Silicon and Hydride Ligands. Chemistry Letters, 2001, 30, 1100-1101.	1.3	10
74	Synthesis, Characterization, and Reactivities of Diruthenium Complexes Containing a .muSilane Ligand and Structural Studies of the .muSilane Complex [Cp'Ru(CO)]2(.mueta.2:.eta.2-H2SitBu2). Organometallics, 1995, 14, 3855-3868.	2.3	76
75	Insertion of Acetylene into the Ru-Si Bond of a Bis(.muSilylene) Complex. Synthesis and Structure of a 2,5-Disilaruthenacyclopentane Complex. Organometallics, 1994, 13, 2554-2556.	2.3	45
76	Synthesis and reactivity of dinuclear µ-silyl complexes of ruthenium having three-centre two-electron Ru–H–Si interactions. Journal of the Chemical Society Chemical Communications, 1992, , 476-478.	2.0	47