Toshihiro Takao

List of Publications by Year in descending order

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430874 454955 1,179 76 18 30 citations h-index g-index papers 83 83 83 644 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Dehydrogenative Coupling of 4-Substituted Pyridines Catalyzed by Diruthenium Complexes. Journal of the American Chemical Society, 2007, 129, 11006-11007.	13.7	101
2	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
3	Synthesis, Structures, and Reactions of Coordinatively Unsaturated Trinuclear Ruthenium Polyhydrido Complexes, [{Ru(C5Me5)}3(\hat{l}^1 /4-H)6](Y) (Y = BF4, CF3SO3, 1/2(SO4), C6H5CO2, CH3CO2, B(C6H5))4,)3.1 ½ ETC	2q17 4 0.784 <mark>3</mark> 1
4	Synthesis and reactivity of dinuclear Âμ-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
5	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
6	Skeletal Rearrangement of a C2Unit on a Triruthenium Cluster. Synthesis of $\hat{1}\frac{1}{4}$ -Ethylidene, $\hat{1}\frac{1}{4}$ 3-Ethylidyne, and $\hat{1}\frac{1}{4}$ 3-Vinylidene Complexes by the Reaction of $\{Cp^*Ru(\hat{1}\frac{1}{4}-H)\}3(\hat{1}\frac{1}{4}$ 3-H)2with Acetylene. Organometallics, 2002, 21, 5190-5203.	2.3	39
7	Successive Siâ^'H/Siâ^'C Bond Cleavage of Tertiary Silanes on Diruthenium Centers. Reactivities and Fluxional Behavior of the Bis(Î⅓-silylene) Complexes Containing Î⅓-Hydride Ligandsâ€. Organometallics, 2003, 22, 3855-3876.	2.3	35
8	Cleavage of the Cï£ $\frac{1}{2}$ N Bond on a Triruthenium Cluster: Synthesis and Structure of a Triruthenium Complex Containing a $\frac{1}{4}$ 3-Nitrido Ligand. Angewandte Chemie - International Edition, 2006, 45, 485-488.	13.8	34
9	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
10	Reactions of Diruthenium Tetrahydride Complex (η5-C5Me5)Ru(η 4 -H)4Ru(η5-C5Me5) with Vinylsilanes: Formation of a Î 4 -Silylene Complex via Successive Siâ H and Siâ CB Bond Cleavage of Dimethylvinylsilane. Organometallics, 2001, 20, 3406-3422.	2.3	29
11	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
12	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
13	Arylation of Hydrocarbyl Ligands Formed from <i>n</i> àê€Alkanes through C–H Bond Activation of Benzene Using a Triruthenium Cluster. European Journal of Inorganic Chemistry, 2009, 2009, 3393-3397.	2.0	24
14	Synthesis and Characterization of Triruthenium Complexes Containing a Perpendicularly Coordinated Alkyne Ligand. Organometallics, 2004, 23, 6094-6096.	2.3	23
15	Synthesis and Structure of a Triruthenium Complex Containing a Face-Capping Pyridine Ligand. Angewandte Chemie - International Edition, 2006, 45, 7615-7618.	13.8	23
16	Synthesis and Property of Diruthenium Complexes Containing Bridging Cyclic Diene Ligands and the Reaction of Diruthenium Tetrahydrido Complex with Benzene Forming a ν-î- ² :î- ² -Cyclohexadiene Complex via Partial Hydrogenation on a Ru ₂ Center. Organometallics, 2011, 30, 5057-5067.	2.3	23
17	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
18	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

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19	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
20	Redox-Induced Reversible Rearrangement of a Dimetallaallyl Ligand on the Trinuclear Cluster of Ruthenium. Mechanistic Aspects of Formation of the Face-Capping $\hat{l}^1\!/4$ 3-C3 Ring on the Triruthenium Plane. Organometallics, 2007, 26, 1349-1360.	2.3	18
21	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
22	Direct Arylation of a Cluster-Bound Alkyne Ligand with Benzene. Organometallics, 2010, 29, 4770-4773.	2.3	18
23	Bimetallic Reductive Câ^'C Coupling Reaction Induced by Chemical Oxidation:  Formation of a Î⅓3-C3 Ring on a Triruthenium Cluster. Organometallics, 2003, 22, 1361-1363.	2.3	17
24	Synthesis and Structure of a Triruthenium Complex Containing a Perpendicularly Coordinated 1/43·1·2:1·2 (⊥)-Nitrile Ligand and Its Protonation To Yield a Perpendicularly Coordinated Iminoacyl Ligand. Organometallics, 2005, 24, 3371-3374.	2.3	17
25	Formation of a Boraruthenacyclopentenyl Skeleton via B–C Bond Formation across a Triruthenium Plane. Organometallics, 2012, 31, 1825-1831.	2.3	17
26	Skeletal rearrangement of hydrocarbyl ligands on a triruthenium core induced by chemical oxidation. Coordination Chemistry Reviews, 2012, 256, 695-708.	18.8	17
27	Metathesis Reaction of Hydrocarbyl Ligands across the Triruthenium Plane. Angewandte Chemie - International Edition, 2010, 49, 5898-5901.	13.8	16
28	Dehydrogenative Coupling of 4-Substituted Pyridines Catalyzed by a Trinuclear Complex of Ruthenium and Cobalt. Organometallics, 2016, 35, 2348-2360.	2.3	15
29	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
30	Intramolecular Borylene Transfer Leading to the Formation of a \hat{l}^4 (sub>3-BC(sub>2 Ring on a Triruthenium Cluster. Organometallics, 2013, 32, 737-740.	2.3	14
31	A Triruthenium Complex Capped by a Triply Bridging Oxoboryl Ligand. Angewandte Chemie - International Edition, 2013, 52, 11884-11887.	13.8	14
32	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
33	Oxidation-Induced Rearrangement from a nido- to a closo-Ruthenacyclopentadiene. Organometallics, 2006, 25, 5511-5514.	2.3	12
34	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
35	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
36	Synthesis of a Heterometallic Trinuclear Cluster Containing Ruthenium and Cobalt and Its Reactivity with Internal Alkynes. Organometallics, 2012, 31, 6547-6554.	2.3	12

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37	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
38	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
39	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
40	Isomerization of Organic Substrates Catalyzed by Ruthenium Complexes. , 2005, , 309-331.		10
41	Substitution Reactions at a Bridging Silicon Ligand. Formation of a Bis($\hat{l}\frac{1}{4}$ -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
42	Insertion of Acetylene and Nitriles into a Ruâ^'C Bond of a Dicationic Triruthenium Complex Having a μ ₃ -Î-(sup>3-C ₃ Ring: Formation of Six-Membered Ruthenacycles on a Triruthenium Core. Organometallics, 2008, 27, 1044-1054.	2.3	10
43	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
44	Synthesis of a Heterometallic Trinuclear Cluster of Ruthenium and Platinum with a Linear Alignment. Organometallics, 2016, 35, 2543-2556.	2.3	8
45	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
46	Synthesis and characterisation of tetranuclear ruthenium polyhydrido clusters with pseudo-tetrahedral geometry. Dalton Transactions, 2017, 46, 5631-5643.	3.3	8
47	Preparation and Properties of Diruthenium Hydrido Complexes Having a Bridging Benzoquinone Ligand: Formation of an Alcohol Adduct of a 1¼-Î- ² :Î- ² -Benzoquinone Complex through Hydrogen Bonding. Organometallics, 2008, 27, 4199-4206.	2.3	7
48	Versatile and highly efficient synthesis of diruthenium tetrahydride complex. Journal of Organometallic Chemistry, 2016, 801, 6-9.	1.8	7
49	Trinuclear $\hat{l}^1\!\!/4$ (sub) 3 (sub)-Silyl Complexes of Ruthenium and Group 9 Metals Having 3c-2e Interactions and Transformation of a $\hat{l}^1\!\!/4$ (sub) 3 (sub)-Silyl Complex of Ru(sub)2 (sub) Ir into $\hat{l}^1\!\!/4$ -Silyl and $\hat{l}^1\!\!/4$ (sub) 3 (sub)-Silylene Complexes. Organometallics, 2014, 33, 7232-7240.	2.3	6
50	μ 3 â€Î 2 :Î 2 :Î 2 â€Coordination of Primary Silane on a Triruthenium Plane. Angewandte Chemie - International Edition, 2015, 54, 14871-14874.	13.8	6
51	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
52	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
53	Dehydrogenative Oxidation of Cyclic Amines on a Diruthenium Complex. Organometallics, 2017, 36, 1893-1896.	2.3	5
54	Modified synthesis of mixed-ligand dinuclear Ruâ€"Ir, Ruâ€"Rh, and Ruâ€"Ru polyhydride-bridged complexes, CpsRuH3ML (CpsÂ=ÂC5Me5 (Cp*), C5Bu3H2 (Cp‡); MÂ=ÂRh, Ir, Ru; LÂ=ÂC5(CH3)5, C6H6, p-CH3C6H4CH(CH3) Journal of Organometallic Chemistry, 2016, 818, 168-178.	31).28).	4

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55	Photolysis of triruthenium î¼3-alkyne complexes capped by a î¼3-oxo ligand. Journal of Organometallic Chemistry, 2016, 812, 167-176.	1.8	4
56	Half-sandwich Cyclopentadienyl Iridium Dichloride Monomer Cp [‡] IrCl ₂ (Cp [‡] : 1,2,4-tri-⟨i>tert)-butylcyclopentadienyl). Chemistry Letters, 2017, 46, 197-199.	1.3	4
57	Ïf-Coordination of a P–H Bond at a Sterically Demanding Diruthenium Site: Tautomerization between Agostic μ-Phosphane and μ-Phosphanido Complexes via an η ² -P–H Bond Cleavage. Organometallics, 2018, 37, 290-293.	2.3	3
58	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
59	Synthesis and Properties of a Triruthenium Hydrido Complex Capped by a ξ3-Oxoboryl Ligand. Organometallics, 2019, 38, 2239-2249.	2.3	3
60	Effect of ring size on the properties of \hat{l} / $\!\!4$ 3-Cycloalkyne complexes: Synthesis of triruthenium complexes containing a perpendicularly coordinated \hat{l} / $\!\!4$ 3-Allenyl ligand. Journal of Organometallic Chemistry, 2019, 885, 7-20.	1.8	3
61	Transformation of a î¼ ₃ -Benzyne Ligand into Phenol on a Cationic Triruthenium Cluster Supported by a î¼ ₃ -Sulfido Ligand. Organometallics, 2019, 38, 527-535.	2.3	3
62	Intramolecular Nitrene Transfer via the C≡N Bond Cleavage of Acetonitrile to a $\hat{1}^{1}$ 4 ₃ -Alkylidyne Ligand on a Cationic Triruthenium Plane. Organometallics, 2020, 39, 2888-2899.	2.3	3
63	Reaction of a Triruthenium μ ₃ -Borylene Complex with Benzonitrile: Formation of a μ ₃ -Î-(sub>3-I-(sup>3-BCN Ring on a Cationic Ru ₃ Plane via Photo-Induced Intramolecular Borylene Transfer. Organometallics, 2020, 39, 593-604.	2.3	3
64	μ 3 ― 2 :η 2 :η 2 oordination of Primary Silane on a Triruthenium Plane. Angewandte Chemie, 2015, 127, 15084-15087.	2.0	2
65	Preparation of Bis(î¼ ₃ -silylyne) Complexes via Consecutive Si–H Bond Cleavage at a Triruthenium Site. Organometallics, 2017, 36, 3774-3783.	2.3	2
66	Selective Synthesis of a Triruthenium Pentahydrido Complex with Mixed-Cp Ligands (C ₅ <i>^{t3H₂ and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Fluxionality of a Face-Capping Benzene Ligand Induced by Oxidation. Organometallics, 2019, 38,}</i>	0 307 Td 2.3	(C ₅₂
67	3824-3833. 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
68	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
69	Mono- and Bis-cyclopentadienyl Complexes of Ruthenium and Osmium. , 2022, , .		2
70	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
71	Reversible Transformation of a ν 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
72	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

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73	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
74	Câ^'C Bond Formation between the μâ€Alkylidyne Ligands in a Diruthenium Bis(μâ€alkylidyne) Complex; σâ€Ï€â€Aromaticity of the Ru 2 C 2 Core. European Journal of Inorganic Chemistry, 2021, 2021, 2505-2513.	ۥand 2.0	O
75	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	O
76	Formation of an Azaruthenacyclopentadiene Skeleton via Ammonia Activation by an Electronâ€Deficient Ru ₃ Cluster. Chemistry - A European Journal, 2022, , e202200327.	3.3	0