

# Akiko Inagaki

## List of Publications by Year in descending order

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73  
papers

2,052  
citations

218677

26  
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265206

42  
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76  
all docs

76  
docs citations

76  
times ranked

1821  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible-light promoted bimetallic catalysis. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1220-1239.	18.8	195
2	Photochromic Organometallics with a Dithienylethene (DTE) Bridge, $[Y\{MCP^*(dppe)\}]$ ( $Y = \{MCP^*(dppe)\}$ ): Photoswitchable Molecular Wire (M=Fe) versus Dual Photo- and Electrochromism (M=Ru). <i>Chemistry - A European Journal</i> , 2010, 16, 4762-4776.	3.3	99
3	A photoswitchable molecular wire with the dithienylethene (DTE) linker, $(dppe)(\eta^5-C_5Me_5)Fe\{C\{C\{DTE\}C\}Fe(\eta^5-C_5Me_5)(dppe)$ . <i>Chemical Communications</i> , 2007, , 1169-1171.	11.7	98
4	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
5	Intermolecular Activation of n-Alkanes by a Trinuclear Ruthenium Pentahydride Complex-Formation of closo-Ruthenacyclopentadiene Complexes. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 404-406.	13.8	77
6	Synthesis, Structures, and Reactions of Coordinatively Unsaturated Trinuclear Ruthenium Polyhydrido Complexes, $[\{Ru(C_5Me_5)\}_3(\eta^4-H)_6](Y)$ ( $Y = BF_4, CF_3SO_3, 1/2(SO_4), C_6H_5CO_2, CH_3CO_2, B(C_6H_5)_4, B_2O_7, ETQq, 0.70, 0, rgBT$ ).	11.7	70
7	Synthesis and Structural Analysis of (Imido)vanadium(V) Dichloride Complexes Containing Imidazolin-2-iminato- and Imidazolidin-2-iminato Ligands, and their Use as Catalyst Precursors for Ethylene (Co)polymerization. <i>Inorganic Chemistry</i> , 2014, 53, 607-623.	4.0	66
8	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
9	Synthesis of Pd Complexes Combined with Photosensitizing of a Ruthenium(II) Polypyridyl Moiety through a Series of Substituted Bipyrimidine Bridges. Substituent Effect of the Bridging Ligand on the Photocatalytic Dimerization of $\eta^1$ -Methylstyrene. <i>Inorganic Chemistry</i> , 2007, 46, 2432-2445.	4.0	57
10	Enhanced Photocatalytic Activity of $\eta^1$ -Methylstyrene Oligomerization through Effective Metal-to-Ligand Charge-Transfer Localization on the Bridging Ligand. <i>Inorganic Chemistry</i> , 2012, 51, 51-62.	4.0	56
11	Highly selective photo-catalytic dimerization of $\eta^1$ -methylstyrene by a novel palladium complex with photosensitizing ruthenium(ii) polypyridyl moiety. <i>Chemical Communications</i> , 2005, , 5468.	4.1	53
12	Synthesis of a Series of Diiron Complexes Based on a Tetraethynylethene Skeleton and Related C6-Eneidyne Spacers, $(dppe)Cp^*Fe\{C\{C\{C\{C\}C\}C\}C\}FeCp^*(dppe)$ : Tunable Molecular Wires. <i>Organometallics</i> , 2006, 25, 5261-5275.	2.3	45
13	Theoretical studies on structures and reactivities of organocuprate(I) and organocopper(III) species. <i>Journal of Computational Chemistry</i> , 2003, 24, 1401-1409.	3.3	44
14	Regioselective C-H Bond Activation of Alkanes by a Trinuclear Ruthenium Trihydride Complex Having a $\eta^3$ -Sulfido Ligand. <i>Journal of the American Chemical Society</i> , 1999, 121, 7421-7422.	13.7	42
15	Direct Observation of the Triplet Metal-Centered State in $[Ru(bpy)_3]^{2+}$ Using Time-Resolved Infrared Spectroscopy. <i>ChemistrySelect</i> , 2016, 1, 2802-2807.	1.5	41
16	Infrared Vibrational Spectroscopy of $[Ru(bpy)_2(bpm)]^{2+}$ and $[Ru(bpy)_3]^{2+}$ in the Excited Triplet State. <i>Inorganic Chemistry</i> , 2014, 53, 2481-2490.	4.0	39
17	Synthesis and Photochemical Behavior of Organoruthenium Derivatives of Photochromic Dithienylethene (DTE): $DTE\{RRuL\}_m$ ( $L = \text{bpy, bipyridine, etc.}$ ) $Tj ETQq1 1 0.784$	2.3	38
18	Polynuclear Rhodium Complexes with Dinucleating PNNP Ligand: Dynamic and Diverse M-A-M Interactions in $[(\eta^4-X)Rh_2(PNNP)(CO)_2]^{n+}$ and $[(\eta^4-X)Rh_4(PNNP)_2(CO)_4]^{n+}$ [ $X = H, O, C, R, R', C, C, CHCH_2, SMe_2$ ; $n = 0, 1$ ; PNNP = 3,5-bis(diphenylphosphinomethyl)pyrazolato]. <i>Organometallics</i> , 2005, 24, 163-184.	2.3	35

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19	Redox-active polyiron complexes with tetra(ethynylphenyl)ethene and [2,2]paracyclophane spacers containing ethynylphenyl units: extension to higher dimensional molecular wire. Dalton Transactions, 2007, , 928.	3.3	33
20	Reductive Cleavage of the Nâˆ“N Bond of Hydrazine Induced by a Cationic Trinuclear Ruthenium Hexahydride Complex, [(Cpâˆ“Ru)3(Î¼4-H)6]X (Cpâˆ“ = Îµ5-C5Me5; X = 1/2 SO4, BF4, PF6, BPh4) and Dihydrogen. Organometallics, 2004, 23, 4040-4046.	2.3	31
21	Synthesis of a Library of Iridium-Containing Dinuclear Complexes with Bridging PNNN and PNNP Ligands (BL), [LM(Î¼4-BL)Mâˆ“Lâˆ“]BF4. 2. Preparation, Basic Coordination Properties, and Reactivity of the Carbonyl Complexes. Organometallics, 2006, 25, 1359-1367.	2.3	30
22	Precise Synthesis of Poly(fluorene vinylene)s Capped with Chromophores: Efficient Fluorescent Polymers Modified by Conjugation Length and End-Groups. ACS Macro Letters, 2013, 2, 980-984.	4.8	30
23	Precise One-Pot Synthesis of End-Functionalized Conjugated Multi-Block Copolymers via Combined Olefin Metathesis and Wittig-type Coupling. Macromolecules, 2013, 46, 9563-9574.	4.8	29
24	Synthesis of Pd complexes directly linked to the light-absorbing [(bpy)3Ru]2+ unit and their photochemical reactions toward styrenes. Dalton Transactions, 2008, , 6709.	3.3	28
25	Synthesis of (Imido)vanadium(V) Complexes Containing 8-(2,6-Dimethylanilide)-5,6,7-trihydroquinoline Ligands: Highly Active Catalyst Precursors for Ethylene Dimerization. Organometallics, 2014, 33, 1053-1060.	2.3	28
26	Synthesis of a Library of Iridium-Containing Dinuclear Complexes with Bridging PNNN and PNNP Ligands (BL), [LM(Î¼4-BL)Mâˆ“Lâˆ“]BF4. 1. Specific Synthesis of Isomeric Heterodinuclear Complexes with Switched Metal Arrangements. Organometallics, 2006, 25, 1344-1358.	2.3	26
27	Syntheses, photophysical properties, and reactivities of novel bichromophoric Pd complexes composed of Ru(II)âˆ“polypyridyl and naphthyl moieties. Dalton Transactions, 2013, 42, 6989.	3.3	26
28	Versatile and Cooperative Reactivity of a Triruthenium Polyhydride Cluster. A Computational Study. Journal of the American Chemical Society, 2003, 125, 9910-9911.	13.7	25
29	Revelation of the Photoactive Species in the Photocatalytic Dimerization of Î±-Methylstyrene by a Dinuclear Rutheniumâˆ“Palladium Complex. Inorganic Chemistry, 2013, 52, 8030-8039.	4.0	25
30	Nonradical Light-Controlled Polymerization of Styrene and Vinyl Ethers Catalyzed by an Iridiumâˆ“Palladium Photocatalyst. Organometallics, 2018, 37, 359-366.	2.3	24
31	Skeletal Rearrangement in the Trinuclearido-Ruthenacyclopentadiene Complexes: A Theoretical and Experimental Studies. Organometallics, 2003, 22, 1718-1727.	2.3	23
32	Tetranuclear Complexes Based on a Dynamic Metalâˆ“Metal Linkage, [(Î¼4-X)Rh4(CO)4(PNNP)2]n+(X/n=) Tj ETQq0 0 0 rgBT /Overlock	2.3	22
33	Precise one-pot synthesis of fully conjugated end-functionalized star polymers containing poly(fluorene-2,7-vinylene) (PFV) arms. Polymer Chemistry, 2015, 6, 380-388.	3.9	21
34	Chelation-assisted Facile Câˆ“N Bond Oxidative Addition of Spironaphthoxazines by Ru(Î¼4-cycloocta-1,5-diene)(Î¼6-naphthalene). Chemistry Letters, 2006, 35, 434-435.	1.3	20
35	Photocatalytic Styrene Polymerization by Novel Bichromophoric Pd Catalyst Having Long Excited-state Lifetime. Chemistry Letters, 2010, 39, 915-917.	1.3	20
36	Thermal Skeletal Rearrangement of a nido-Ruthenacyclopentadiene Complex Involving Reversible Rupture and Formation of a Rutheniumâˆ“Ruthenium Bond. Organometallics, 2003, 22, 2196-2198.	2.3	19

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37	A new method for the conversion of allyl alcohol into $\eta^3$ -allyl species promoted by nucleophilic interaction with a CO ligand. <i>Chemical Communications</i> , 2006, , 1962-1964.	4.1	19
38	Selective synthesis of isomeric heterodinuclear complexes with switched metal arrangements via proton-induced reversible metal migration. <i>Chemical Communications</i> , 2004, , 2760.	4.1	18
39	Photochromic Behavior and Diastereomeric Isomerism in $[(\eta^6\text{-spiropentadiene})\text{RuCp}^*]\text{PF}_6$ . <i>Organometallics</i> , 2005, 24, 6382-6392.	2.3	18
40	Bimetallic Reductive $\text{C}\equiv\text{C}$ Coupling Reaction Induced by Chemical Oxidation: $\eta^3$ Formation of a $\eta^3$ -C <sub>3</sub> Ring on a Triruthenium Cluster. <i>Organometallics</i> , 2003, 22, 1361-1363.	2.3	17
41	Time-Resolved Fluorescence Spectra in the End-Functionalized Conjugated Triblock Copolymers Consisting of Poly(fluorene vinylene) and Oligo(phenylene vinylene): Proposal of Dynamical Distortion in the Excited State. <i>Macromolecules</i> , 2015, 48, 6233-6240.	4.8	17
42	$\text{C}\equiv\text{C}$ Bond Forming Reductive Elimination from Diarylplatinum Complexes Driven by Visible-Light-Mediated Photoredox Reactions. <i>Organometallics</i> , 2015, 34, 4844-4853.	2.3	17
43	Alkane activation on a multimetallic site. <i>Pure and Applied Chemistry</i> , 2001, 73, 315-318.	1.9	14
44	Syntheses and photophysical properties of visible-light-absorbing Ru(II) polypyridyl complexes possessing (pyridylpyrazolyl)metal tethers. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 3125-3133.	1.8	14
45	Synthesis, structural analysis of the hetero-bimetallic complexes $\text{MMe}[(\text{O}-2,4\text{-tBu}_2\text{C}_6\text{H}_2\text{-6-CH}_2)_2(\eta^2\text{-O-2,4-tBu}_2\text{C}_6\text{H}_2\text{-6-CH}_2)\text{N}][\text{Me}_2\text{Al}(\eta^2\text{-OiPr})]$ [M = Zr, Hf] and their use in catalysis for ethylene polymerisation. <i>Dalton Transactions</i> , 2013, 42, 11632.	3.3	14
46	Photocatalytic Oxygenation of Sulfide and Alkenes by Trinuclear Ruthenium Clusters. <i>Inorganic Chemistry</i> , 2016, 55, 3750-3758.	4.0	14
47	$\eta^4$ -Dicarbyne complex with a dimetallacyclobutatriene core: A new binding mode of C <sub>2</sub> species. <i>Chemical Communications</i> , 2003, , 2984-2985.	4.1	12
48	Oxidation-Induced Rearrangement from a nido- to a closo-Ruthenacyclopentadiene. <i>Organometallics</i> , 2006, 25, 5511-5514.	2.3	12
49	Synthesis of Well-Defined Oligo(2,5-dialkoxy-1,4-phenylene vinylene)s by Combined Olefin Metathesis and Wittig-type Coupling: Effect of Conjugation Repeat Units and End Groups Toward Optical Properties. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1973-1983.	2.2	12
50	Synthesis and photocatalytic activity of a naphthyl-substituted photosensitizing BINAP-palladium complex. <i>Dalton Transactions</i> , 2016, 45, 1331-1334.	3.3	12
51	Synthesis of Mono-, Di-, and Trinuclear Rhodium Diphosphine Complexes Containing Light-Harvesting Fluorene Backbones. <i>Inorganic Chemistry</i> , 2017, 56, 1027-1030.	4.0	12
52	Synthesis of trinuclear Pd-Ru-Pd porphyrin complexes with axially ligated Pd centers. Prominent metal-to-ligand charge transfer band in the visible region. <i>Journal of Organometallic Chemistry</i> , 2014, 753, 48-54.	1.8	11
53	Synthesis of Highly Conjugated Dinuclear Ru Complexes Bridged by a Novel N <sub>2</sub> -N <sub>3</sub> Ligand and Their Application in Photocatalytic Oxygenation of Sulfides. <i>Chemistry Letters</i> , 2014, 43, 290-292.	1.3	11
54	On-demand hydrogen production from formic acid by light-active dinuclear iridium catalysts. <i>Chemical Communications</i> , 2020, 56, 4519-4522.	4.1	11

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55	C <sup>∞</sup> C Coupling of a Permetalated Ethene, (1/4-CC)Ru <sub>2</sub> (FeCp*) <sub>2</sub> (CO) <sub>10</sub> , with Alkynes, and Isolation of a Labile MeCN Adduct, (1/4-CC)Ru <sub>2</sub> (FeCp*) <sub>2</sub> (CO) <sub>8</sub> (NCMe) <sub>2</sub> . <i>Organometallics</i> , 2007, 26, 439-444.	2.3	9
56	Ruthenium and chromium complexes bearing pH-indicators as the 1,6-arene ligand: Synthesis, characterization, and protonation behavior. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 93-110.	1.8	9
57	Manganese(II) Semiquinonato and Manganese(III) Catecholato Complexes with Tridentate Ligand: Modeling the Substrate-Binding State of Manganese-Dependent Catechol Dioxygenase and Reactivity with Molecular Oxygen. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1115-1119.	3.3	9
58	One-pot Synthesis of End-functionalized Conjugated Polymers by Combined Acyclic Diene Metathesis (ADMET) Polymerization Using Molybdenum Catalyst with Wittig-type Coupling. <i>Journal of the Japan Petroleum Institute</i> , 2016, 59, 197-203.	0.6	9
59	Cu-Pd Dinuclear Complexes with Earth-Abundant Cu Photosensitizer: Synthesis and Photopolymerization. <i>Organometallics</i> , 2020, 39, 2464-2469.	2.3	9
60	Synthesis of Well-Defined Oligo(2,5-dialkoxy-1,4-phenylene vinylene)s with Chiral End Groups: Unique Helical Aggregations Induced by the Chiral Chain Ends. <i>Chemistry - A European Journal</i> , 2015, 21, 16764-16768.	3.3	8
61	Substituent Effect of the Bridging Ligand in the Trinuclear Ru Complexes on Photocatalytic Oxygenation of a Sulfide and Alkenes. <i>Inorganic Chemistry</i> , 2017, 56, 12996-13006.	4.0	8
62	Light-driven catalytic hydrogenation of carbon dioxide at low-pressure by a trinuclear iridium polyhydride complex. <i>Chemical Communications</i> , 2019, 55, 5087-5090.	4.1	8
63	Photocatalytic degradation of organic dyes and phenol by iron-silicate glass prepared by the sol-gel method. <i>New Journal of Chemistry</i> , 2021, 45, 19019-19031.	2.8	8
64	Synthesis of di- and trinuclear iridium polyhydride complexes surrounded by light-absorbing ligands. <i>Dalton Transactions</i> , 2018, 47, 12046-12050.	3.3	7
65	Organometallic Photocatalysis Promoted by Visible Light (Sunlight): Photo-redox Catalysis and Difunctional Dinuclear Catalyst System. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2014, 72, 538-547.	0.1	6
66	Syntheses of novel di- and trinucleating ligands having a triethylbenzene core with N,N-bidentate tethers: their complexation toward Pd and Rh organometallic fragments. <i>Dalton Transactions</i> , 2008, , 1888.	3.3	5
67	Syntheses and structure of dinuclear metal complexes containing naphthyl-Ir bichromophore. <i>Dalton Transactions</i> , 2021, 50, 12716-12722.	3.3	5
68	Light-Assisted Catalytic Hydrogenation of Carbon Dioxide at a Low Pressure by a Dinuclear Iridium Polyhydride Complex. <i>Organometallics</i> , 2021, 40, 98-101.	2.3	5
69	Activation of Acyclic and Cyclic Conjugated Dienes in Cooperation with the Three Metal Centers.. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 1999, 57, 935-944.	0.1	4
70	Rapid Photoracemization of Chiral Alkyl Aryl Sulfoxides. <i>Journal of Organic Chemistry</i> , 2021, 86, 17249-17256.	3.2	4
71	Effect of ring size on the properties of 1/3-Cycloalkyne complexes: Synthesis of triruthenium complexes containing a perpendicularly coordinated 1/3-Allenyl ligand. <i>Journal of Organometallic Chemistry</i> , 2019, 885, 7-20.	1.8	3
72	Synthesis and Photocatalytic Activities of Dinuclear Iridium Polyhydride Complexes Bearing BINAP Ligands. <i>Organometallics</i> , 2019, 38, 2408-2411.	2.3	2

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73	Development of Metal Complexes to Utilize Visible-Light Energy into Molecular Transformation. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2022, 80, 489-497.	0.1	0