

# Shin Takemoto

## List of Publications by Year in descending order

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45  
papers

1,134  
citations

304743

22  
h-index

395702

33  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1115  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Metal-metal multiple bond formation induced by $\sigma$ -acceptor Lewis acid ligands. <i>Chemical Communications</i> , 2021, 57, 923-926.  | 4.1  | 1         |
| 2  | Tin-Ruthenium Cooperative Catalyst for Disproportionation of Formic Acid to Methanol. <i>ACS Catalysis</i> , 2021, 11, 7460-7466.  | 11.2 | 8         |
| 3  | Linear Hydrocarbon Chain Growth from a Molecular Diruthenium Carbide Platform. <i>Journal of the American Chemical Society</i> , 2021, 143, 16105-16112.   | 13.7 | 12        |
| 4  | Linear Carbon Chain Growth Reactions of Ruthenium Carbide Complexes. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2021, 79, 1136-1143.   | 0.1  | 0         |
| 5  | Parent Cyclopentadienyl Ruthenium(II) Chloride Synthone: Derivatization to CpRu Amido, Imido, and Oxo Complexes. <i>Organometallics</i> , 2019, 38, 4298-4306.   | 2.3  | 19        |
| 6  | Bis(bipyridine) ruthenium(ii) bis(phosphido) metalloligand: synthesis of heterometallic complexes and application to catalytic (E)-selective alkyne semi-hydrogenation. <i>Dalton Transactions</i> , 2019, 48, 1161-1165.  | 3.3  | 11        |
| 7  | Recent topics on catalytic transformations of aromatic molecules via $\eta^6$ -arene transition metal complexes. <i>Tetrahedron Letters</i> , 2018, 59, 697-703.   | 1.4  | 18        |
| 8  | Anionic Trinuclear Iridium(I) Oxo Complex: Synthesis and Reactivity as a Metal-Centered $\sigma$ -Donor Ligand to Gold(I) and Silver(I). <i>Organometallics</i> , 2018, 37, 1591-1597.   | 2.3  | 2         |
| 9  | Diruthenium Carbido Complexes as $\sigma$ -Heterocyclic Carbene Like C-Donor Ligands to Group 11 Metals. <i>Organometallics</i> , 2017, 36, 3686-3691.   | 2.3  | 28        |
| 10 | Metal-ligand cooperative activation of element-hydrogen bonds (element = C, N, O, Cl, B) on a dinuclear ruthenium bridging imido complex. <i>Journal of Organometallic Chemistry</i> , 2016, 812, 158-166.   | 1.8  | 6         |
| 11 | Ruthenium-Sulfonamide-Catalyzed Direct Dehydrative Condensation of Benzylic C-H Bonds with Aromatic Aldehydes. <i>Journal of the American Chemical Society</i> , 2016, 138, 14836-14839.   | 13.7 | 40        |
| 12 | Experimental and theoretical studies of Si-Cl and Ge-Cl $\sigma$ -bond activation reactions by iridium-hydride. <i>Dalton Transactions</i> , 2016, 45, 7570-7580.  | 3.3  | 34        |
| 13 | Transition-Metal-Mediated Germanium-Fluorine Activation: Inverse Electron Flow in $\sigma$ -Bond Metathesis. <i>Organometallics</i> , 2016, 35, 713-719.   | 2.3  | 34        |
| 14 | Aminolysis of $[\text{Cp}^*\text{Ru}(\eta^5\text{-OEt})]_2$ ( $\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$ ) with sulfonamides: Synthesis of neutral, zwitterionic, and anionic $\text{Cp}^*\text{Ru}$ terminal sulfonamido complexes. <i>Journal of Organometallic Chemistry</i> , 2016, 808, 97-103. | 1.8  | 6         |
| 15 | Synthesis and reactivity of dinuclear $\text{Cp}^*\text{Ru}$ tert-butylamido and cyclometallated Bis(trimethylsilyl)amido complexes. <i>Journal of Organometallic Chemistry</i> , 2015, 797, 60-66.  | 1.8  | 8         |
| 16 | A Diruthenium $\eta^5$ -Carbido Complex That Shows Singlet-Carbene-like Reactivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 15889-15892.  | 13.7 | 52        |
| 17 | Nucleophile-Catalyzed, Facile, and Highly Selective C-H Activation of Fluoroform with Pd(II). <i>Journal of the American Chemical Society</i> , 2013, 135, 16837-16840.  | 13.7 | 26        |
| 18 | Synthesis and C-H Reductive Elimination Study of Dinuclear Ruthenium Imido Dihydride Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 17027-17035.  | 13.7 | 15        |

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|----|--|------|-----------|
| 19 | Recent advances in the chemistry of ruthenium carbido complexes. <i>Coordination Chemistry Reviews</i> , 2012, 256, 574-588.   | 18.8 | 48        |
| 20 | Synthesis and Reactivity of Coordinatively Unsaturated Dinuclear Ruthenium Bridging Imido Complexes. <i>Organometallics</i> , 2011, 30, 2160-2172.   | 2.3  | 27        |
| 21 | Dinuclear Cp*Co Amido and Alkoxo Complexes: Synthesis, Structures, and Reactivity. <i>Organometallics</i> , 2011, 30, 1013-1020.   | 2.3  | 4         |
| 22 | New fluorene-substituted TTF derivatives as photofunctional materials. <i>Physica B: Condensed Matter</i> , 2010, 405, S12-S14.  | 2.7  | 8         |
| 23 | Development of photofunctional materials using TTF derivatives containing a 1,3-benzothiazole ring. <i>Physica B: Condensed Matter</i> , 2010, 405, S15-S18.   | 2.7  | 15        |
| 24 | Syntheses of organocatalysts with one-handed helix and their application to the kinetic resolution of second alcohol. <i>Research on Chemical Intermediates</i> , 2009, 35, 931-937.   | 2.7  | 1         |
| 25 | A Bimetallic Ru <sub>2</sub> Pt Complex Containing a Trigonal-Planar $\eta^3$ -Carbido Ligand: Formation, Structure, and Reactivity Relevant to the Fischer-Tropsch Process. <i>Journal of the American Chemical Society</i> , 2009, 131, 18026-18027. | 13.7 | 40        |
| 26 | Induction of one-handed helical oligo(p-benzamide)s by domino effect based on planar-axial-helical chirality relay. <i>Chemical Communications</i> , 2009, , 1201.   | 4.1  | 13        |
| 27 | P $\pi$ -H Bond Addition to a Dinuclear Ruthenium Imido Complex: Synthesis and Reactivity of an Amido Phosphido Complex. <i>Organometallics</i> , 2008, 27, 1780-1785.   | 2.3  | 19        |
| 28 | Divalent Dirhodium Imido Complexes: Formation, Structure, and Alkyne Cycloaddition Reactivity. <i>Journal of the American Chemical Society</i> , 2008, 130, 8904-8905.   | 13.7 | 25        |
| 29 | Synthesis of Helicenes Utilizing Palladium-Catalyzed Double C $\pi$ -H Arylation Reaction. <i>Journal of Organic Chemistry</i> , 2007, 72, 7406-7408.  | 3.2  | 79        |
| 30 | Stereoselective Synthesis of Both Enantiomers of N-Aryl Indoles with Axially Chiral N $\pi$ -C Bonds. <i>Journal of Organic Chemistry</i> , 2007, 72, 3394-3402.   | 3.2  | 69        |
| 31 | Synthesis of Ru $\mu$ -Pt and Ru $\mu$ -Pd mixed-metal imido clusters from a diruthenium imido-methylene scaffold [(Cp* $\mu$ -Ru) <sub>2</sub> ( $\mu$ -NPh)( $\mu$ -CH <sub>2</sub> )]. <i>Chemical Communications</i> , 2006, , 1328.               | 4.1  | 17        |
| 32 | Diiron Amido $\pi$ -Imido Complex [(Cp* $\mu$ -Fe) <sub>2</sub> ( $\mu$ -NPh)( $\mu$ -NPh)]: $\pi$ Synthesis and a Net Hydrogen Atom Abstraction Reaction To Form a Bis(imido) Complex. <i>Inorganic Chemistry</i> , 2006, 45, 4871-4873.              | 4.0  | 22        |
| 33 | Nickel-Catalyzed [3+1+1] Cycloaddition Reactions of Alkenyl Fischer Carbene Complexes with Methylene-cyclopropanes. <i>Organic Letters</i> , 2006, 8, 4011-4014.   | 4.6  | 38        |
| 34 | Synthesis and Reactivity of a Dithiolate-Bridged Ruthenium $\pi$ -Rhodium Heterobimetallic Dihydride Complex. <i>Organometallics</i> , 2006, 25, 982-988.  | 2.3  | 27        |
| 35 | Dinuclear ruthenium(II) catecholato and 2,3-naphthalenediolato complexes featuring $\eta^2$ -diaryloxo/ $\eta^6$ -arene coordination mode. <i>Inorganica Chimica Acta</i> , 2006, 359, 912-916.  | 2.4  | 11        |
| 36 | Dinuclear Ruthenium(II) $\eta^2$ -Diamido/ $\eta^6$ -Naphthalene Complexes Featuring a Coordinatively Unsaturated yet Highly $\pi$ -Basic ( $\eta^5$ -C <sub>5</sub> Me <sub>5</sub> )Ru Diamide Fragment. <i>Organometallics</i> , 2005, 24, 801-804. | 2.3  | 24        |

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|----|--|------|-----------|
| 37 | Reactivity of Amido Ligands on a Dinuclear Ru(II) Center: Formation of Imido Complexes and C <sup>N</sup> Coupling Reaction with Alkyne. <i>Journal of the American Chemical Society</i> , 2004, 126, 10802-10803. | 13.7 | 40        |
| 38 | Olefin Polymerization Catalyzed by Titanium-Tungsten Heterobimetallic Dinitrogen Complexes. <i>Organometallics</i> , 2004, 23, 4544-4546.  | 2.3  | 44        |
| 39 | Ti-Mo heterobimetallic thiacalix[4]arene complex containing an unusual $\eta^5$ -agostic $\eta^5$ -2-cyclopentadienyl ligand. <i>Chemical Communications</i> , 2004, , 838-839.                                    | 4.1  | 12        |
| 40 | A Dinuclear Ruthenium(II) Chelating Amido Complex: Synthesis, Characterization, and Coupling Reaction with Carbon Monoxide. <i>Organometallics</i> , 2004, 23, 3587-3589.  | 2.3  | 20        |
| 41 | Synthesis and Structures of <i>p</i> -tert-Butyltetrathiacalix[4]arene-dihydrides of Mo(IV) and W(IV). <i>Chemistry Letters</i> , 2002, 31, 6-7.   | 1.3  | 12        |
| 42 | Ruthenium Complexes Containing Bis(diarylamido)/Thioether Ligands: Synthesis and Their Catalysis for the Hydrogenation of Benzonitrile. <i>Organometallics</i> , 2002, 21, 3897-3904.                              | 2.3  | 66        |
| 43 | Synthesis and Structures of 1,1'-Ferrocenedithiolato-Bridged Di- and Trinuclear Ruthenium Complexes. <i>Organometallics</i> , 2000, 19, 3249-3252.   | 2.3  | 24        |
| 44 | Formation of Ammonia in the Reactions of a Tungsten Dinitrogen with Ruthenium Dihydrogen Complexes under Mild Reaction Conditions. <i>Inorganic Chemistry</i> , 2000, 39, 5946-5957.                               | 4.0  | 49        |
| 45 | Synthesis of Heterobimetallic Fe-M (M = Ni, Pd, Pt) Complexes Containing the 1,1'-Ferrocenedithiolato Ligand and Their Conversion to Trinuclear Complexes. <i>Inorganic Chemistry</i> , 1998, 37, 6428-6434.       | 4.0  | 59        |