

Publication List-Yoichiro Kuninobu

2015/10/26

95. Kuninobu, Y.*; Ida, H.; Nishi, M.; Kanai, M.*
A *meta*-selective C-H borylation directed by a secondary interaction between ligand and substrate.
Nature Chem. **2015**, *7*, 712-717 (DOI: 10.1038/nchem.2322).
[Nature Chem. news & views: Ackermann, L.; Li, J. *Nature Chem.* **2015**, *7*, 686-687]
94. Kuninobu, Y.*; Nagase, M.; Kanai, M.*
Benzylic C(sp³)-H Perfluoroalkylation of 6-Membered Heteroaromatic Compounds.
Angew. Chem. Int. Ed. **2015**, *54*, 10263-10266 (DOI: 10.1002/anie.201505335).
93. Kuninobu, Y.*; Sueki, S.
C-H Bond Transformations Leading to the Synthesis of Organic Functional Materials.
Synthesis **2015**, in press.
[Review]
92. Murai, M.*; Takeshima, H.; Morita, H.; Kuninobu, Y.; Takai, K.*
Acceleration Effects of Phosphine Ligands on the Rhodium-Catalyzed Dehydrogenative Silylation and Germylation of Unactivated C(sp³)-H Bonds.
J. Org. Chem. **2015**, *80*, 5407-5414 (DOI: 10.1021/acs.joc.5b00920).
[Featured Article]
91. Wang, Z.; Kuninobu, Y.*; Kanai, M.*
Palladium-Catalyzed Oxirane-Opening Reaction with Arenes via C-H Bond Activation.
J. Am. Chem. Soc. **2015**, *137*, 6140-6143 (DOI: 10.1021/jacs.5b02435).
[Web of Science 2015年3-4月高被引用文献]
90. Saito, K.; Chikkade, P. K.; Kanai, M.*; Kuninobu, Y.*

Palladium-Catalyzed Construction of Heteroatom-Containing π -Conjugated Systems by Intramolecular Oxidative C-H/C-H Coupling Reaction.
Chem. Eur. J. **2015**, *21*, 8365-8368 (DOI: 10.1002/chem.201501116).

89. Sueki, S.; Kuninobu, Y.*

Rhodium-Catalyzed Synthesis of Multi-Substituted Silylindenes from Aryl Alkynes and Hydrosilanes via C-H Bond Activation.

Chem. Commun. **2015**, *51*, 7685-7688 (DOI: 10.1039/c5cc01569c).

88. Chikkade, P. K.; Kuninobu, Y.*; Kanai, M.*

Copper-Catalyzed Intermolecular C(sp³)-H Bond Functionalization Towards Synthesis of Tertiary Carbamates.

Chem. Sci. **2015**, *6*, 3195-3200 (DOI: 10.1039/C5SC00238A).

[Twenty-five most downloaded articles between April and June, 2015]

87. Wakaki, T.; Kanai, M.*; Kuninobu, Y.*

Iridium-Catalyzed *ortho*-Selective C-H Silylation of Aromatic Compounds Directed toward the Synthesis of π -Conjugated Molecules with Lewis Acid-Base Interaction.

Org. Lett. **2015**, *17*, 1758-1761 (DOI: 10.1021/acs.orglett.5b00529).

86. Murai, M.*; Omura, T.; Kuninobu, Y.; Takai, K.*

Rhenium-Catalysed Dehydrogenative Borylation of Primary and Secondary C(sp³)-H Bonds Adjacent to a Nitrogen Atom.

Chem. Commun. **2015**, *51*, 4583-4586 (DOI: 10.1039/C4CC09508A).

85. Wang, Z.; Kuninobu, Y.*; Kanai, M.* Copper-Mediated Direct C(sp³)-H and C(sp²)-H Acetoxylation.

Org. Lett. **2014**, *16*, 4790-4793 (DOI: 10.1021/ol5022542).

[*Synfacts* **2014**, *10*, 1310]

84. Wang, Z.; Kuninobu, Y.*; Kanai, M.*

Molybdenum-Mediated Desulfurization of Thiols and Disulfides.

Synlett **2014**, *25*, 1869-1872 (DOI: 10.1055/s-0034-1378315).

83. Matsuo, Y.*; Kuninobu, Y.; Ito, S.; Sawamura, M.; Nakamura, E.*
Fiedel-Crafts Functionalization of Cyclopentadienyl Ligand of Bucky Metallocenes.
Dalton Trans. **2014**, *43*, 7407-7412 (DOI: 10.1039/c3dt52002a).
82. Kanyiva, K. S.; Kuninobu, Y.*; Kanai, M.*
Palladium-Catalyzed C–H Silylation and Germanylation of Benzamides and Carboxyamides.
Org. Lett. **2014**, *16*, 1968-1971 (DOI: 10.1021/ol500519y).
81. Takemura, N.; Kuninobu, Y.*; Kanai, M.*
Copper-Catalyzed Benzylic C(sp³)-H Alkoxylation of Heterocyclic Compounds.
Org. Biomol. Chem. **2014**, *12*, 2528-2532 (DOI:10.1039/C4OB00215F).
80. Nishida, T.; Fukazawa, A.; Yamaguchi, E.; Oshima, H.; Yamaguchi, S.; Kanai, M.*;
Kuninobu, Y.*
Synthesis of Pyridine *N*-Oxide-BF₂CF₃ Complexes and Their Fluorescence Properties.
Chem. Asian J. **2014**, *9*, 1026-1030 (DOI: 10.1002/asia.201301688).
79. Wang, Z.; Ni, J.; Kuninobu, Y.*; Kanai, M.*
Copper-Catalyzed Intramolecular C(sp³)-H and C(sp²)-H Amidation by Oxidative Cyclization.
Angew. Chem. Int. Ed. **2014**, *53*, 3496-3499 (DOI: 10.1002/anie.201311105)
[*Synfacts* **2014**, *10*, 570]
78. Xiao, Q.; Meng, X.; Kanai, M.*; Kuninobu, Y.*
Palladium-Catalyzed C-H Fluorosilylation of 2-Phenylpyridines: Synthesis of Silafluorene Equivalents.
Angew. Chem. Int. Ed. **2014**, *53*, 3168-3172 (DOI: 10.1002/anie.201310293).
77. Nishida, T.; Ida, H.; Kuninobu, Y.*; Kanai, M.*
Regioselective Trifluoromethylation of *N*-Heteroaromatic Compounds using

Trifluoromethyldifluoroborane Activator.

Nat. Commun. **2014**, *5*, 3387 (DOI: 10.1038/ncomms4387).

[Nature Communications Chemistry Selections]

76. Sueki, S.; Guo, Y.; Kanai, M.; Kuninobu, Y.*

Rhenium-Catalyzed Synthesis of 3-Imino-1-isoindolinones via C-H Bond Activation and Successive Dealkoxylative Annulation and Its Application to Synthesis of Polyimide Derivatives.

Angew. Chem. Int. Ed. **2013**, *52*, 11879-11883 (DOI: 10.1002/anie.201306360).

[*Synfacts* **2014**, *10*, 34]

75. Wang, Z.; Kuninobu, Y.*; Kanai, M.*

Copper-Catalyzed Intramolecular N-S Bond Formation by Oxidative Dehydrogenative Cyclization.

J. Org. Chem. **2013**, *78*, 7337-7342 (DOI: 10.1021/jo401056g).

74. Kuninobu, Y.*

Transition Metal-Catalyzed Highly Efficient and Novel Transformations –Development of Reactions Using Group 7 and Other Transition Metal Catalysts.

J. Synth. Org. Chem. Jpn. **2013**, *71*, 425-432.

73. Sueki, S.; Kuninobu, Y.*

Copper-Catalyzed *N*- and *O*-Alkylation of Amines and Alcohols using Alkylborane Reagents.

Org. Lett. **2013**, *15*, 1544-1547 (DOI: 10.1021/ol400323z).

[Top 20 most downloaded articles for March, 2013.]

72. Kuninobu, Y.*; Iwanaga, T.; Omura, T.; Takai, K.*

Palladium-Catalyzed *ortho*-Selective C-H Borylation of 2-Phenylpyridine and Its Derivatives at Room Temperature.

Angew. Chem. Int. Ed. **2013**, *52*, 4431-4434 (DOI: 10.1002/anie.201210328).

[*Synfacts* **2013**, *9*, 775]

71. Takemura, N.; Kuninobu, Y.*; Kanai, M.*
Copper-Catalyzed C-H Alkoxylation of Azoles.
Org. Lett. **2013**, *15*, 844-847 (DOI: 10.1021/ol303533z).
70. Kuninobu, Y.*; Nakahara, T.; Takeshima, H.; Takai, K.*
Rhodium-Catalyzed Intramolecular Silylation of Unactivated C(sp³)-H Bonds.
Org. Lett. **2013**, *15*, 426-428 (DOI: 10.1021/ol303353m).
69. Kuninobu, Y.*; Yamauchi, K.; Tamura, N.; Seiki, T.; Takai, K.*
Rhodium-Catalyzed Asymmetric Synthesis of Spirosilabifluorene Derivatives.
Angew. Chem. Int. Ed. **2013**, *52*, 1520-1522 (DOI: 10.1002/anie.201207723).
68. Nishi, M.; Kuninobu, Y.*; Takai, K.*
Rhenium-Catalyzed Regio- and Stereoselective Synthesis of γ -Thio- α,β -unsaturated Ketones via Insertion of Terminal Alkynes into the C-S Bond.
Org. Lett. **2012**, *14*, 6116-6118 (DOI: 10.1021/ol302810u).
67. Kuninobu, Y.*; Origuchi, K.; Takai, K.*
Palladium-Catalyzed Synthesis of a Phosphine Oxide with a Chiral Phosphorus Center via C-H Phosphination.
Heterocycles **2012**, *85*, 3029-3034 (DOI: 10.3987/COM-12-12595).
66. Yamamoto, S.-i.; Okamoto, K.; Murakoso, M.; Kuninobu, Y.*; Takai, K.*
Rhenium-Catalyzed Regioselective Synthesis of Multisubstituted Pyridines from β -Enamino Ketones and Alkynes via C-C Bond Cleavage.
Org. Lett. **2012**, *14*, 3182-3185 (DOI: 10.1021/ol301273j).
[*Synfacts* **2012**, *8*, 840]
65. Kuninobu, Y.*; Takai, K.*
Development of Novel and Highly Efficient Methods to Construct Carbon-Carbon Bonds Using Group 7 Transition Metal Catalysts.
Bull. Chem. Soc. Jpn. **2012**, *85*, 656-671 (DOI: 10.1246/bcsj.20120015).

64. Kuninobu, Y.*; Uesugi, T.; Kawata, A.; Takai, K.*
Manganese-Catalyzed Cleavage of a Carbon-Carbon Single Bond between Carbonyl and Alpha Carbon Atoms of Ketones.
Angew. Chem. Int. Ed. **2011**, *50*, 10406-10408.
63. Nishina, Y.; Tatsuzaki, T.; Tsubakihara, A.; Kuninobu, Y.*; Takai, K.*
Synthesis of Multisubstituted Cyclopentadienes from Cyclopentenones Prepared via Catalytic Double Aldol Condensation and Nazarov Reaction Sequence.
Synlett **2011**, 2585-2589.
62. Kuninobu, Y.*; Ohta, K.; Takai, K.*
Rhenium-Catalyzed Allylation of C-H Bonds of Benzoic and Acrylic Acids.
Chem. Commun. **2011**, *47*, 10791-10793.
61. Kuninobu, Y.*; Yoshida, T.; Takai, K.*
Palladium-Catalyzed Synthesis of Dibenzophosphole Oxides via Intramolecular Dehydrogenative Cyclization.
J. Org. Chem. **2011**, *76*, 7370-7376.
[*Synfacts* **2011**, 1297]
60. Samarat, A.; Kuninobu, Y.*; Takai, K.*
Synthesis of *meso*-Substituted Tetraarylalkynylporphyrins via Rhenium-Catalyzed Formation of Naphthalene Units.
Synlett **2011**, 2177-2180.
59. Kuninobu, Y.*; Tatsuzaki, T.; Matsuki, T.; Takai, K.*
Indium-Catalyzed Construction of Polycyclic Aromatic Hydrocarbon Skeletons via Dehydration.
J. Org. Chem. **2011**, *76*, 7005-7009.
[*Synfacts* **2011**, *11*, 1182.]
58. Kuninobu, Y.*; Matsuzaki, H.; Nishi, M.; Takai, K.*
Rhenium-Catalyzed Regio- and Stereoselective Addition of Two Carbon Units to

Terminal Alkynes via Carbon-Carbon Bond Cleavage of β -Keto Sulfones.

Org. Lett. **2011**, *13*, 2959-2961.

57. Kuninobu, Y.*; Takai, K.*

Organic Reactions Catalyzed by Rhenium Carbonyl Complexes.

Chem. Rev. **2011**, *111*, 1938-1953.

56. Kuninobu, Y.*; Nakahara, T.; Yu, P.; Takai, K.*

Rhenium-Catalyzed Insertion of Terminal Alkenes into a C(sp²)-H Bond and Successive Transfer Hydrogenation.

J. Organomet. Chem. **2011**, *696*, 348-351.

[Invited]

55. Kuninobu, Y.*; Asanoma, D.; Takai, K.*

Cross-Coupling Reactions between C(sp²)-H and C(sp³)-H Bonds via Sequential Dehydrogenation and C-H Insertion.

Synlett **2010**, 2883-2886.

54. Kuninobu, Y.*; Nishi, M.; Takai, K.*

Iron-Catalyzed Synthesis of Glycine Derivatives via Carbon-Nitrogen Bond Cleavage Using Diazoacetate.

Chem. Commun. **2010**, *46*, 8860-8862.

53. Kuninobu, Y.*; Seiki, T.; Kanamaru, S.; Nishina, Y.; Takai, K.*

Synthesis of Functionalized Pentacenes from Isobenzofurans Derived from C-H Bond Activation.

Org. Lett. **2010**, *12*, 5287-5289.

[*C&E News* **2010**, *88(44)*, 25; *Synfacts* **2011**, *2*, 161]

52. Ureshino, T.; Yoshida, T.; Kuninobu, Y.*; Takai, K.*

Rhodium-Catalyzed Synthesis of Silafluorene Derivatives via Cleavage of Silicon-Hydrogen and Carbon-Hydrogen Bonds.

J. Am. Chem. Soc. **2010**, *132*, 14324-14326.

51. Kuninobu, Y.*; Yu, P.; Takai, K.*
Rhenium-Catalyzed Diastereoselective Synthesis of Aminoindanes via the Insertion of Allenes into a C-H Bond.
Org. Lett. **2010**, *12*, 4274-4276.
50. Kuninobu, Y.*; Ureshino, T.; Yamamoto, S.-i.; Takai, K.*
Regioselective Functionalization of Alkanes by Sequential Dehydrogenation-Hydrozirconation.
Chem. Commun. **2010**, *46*, 5310-5312.
49. Kuninobu, Y.*; Iwanaga, T.; Nishi, M.; Takai, K.*
Rhenium-Catalyzed Regioselective Synthesis of Phenol Derivatives from 1,3-Diesters and Terminal Alkynes.
Chem. Lett. **2010**, *39*, 894-895.
[Editor's Choice]
48. Kuninobu, Y.*; Matsuki, T.; Takai, K.*
Rhenium-Catalyzed Synthesis of Indenones by Novel Dehydrative Trimerization of Aryl Aldehydes via C-H Bond Activation.
Org. Lett. **2010**, *12*, 2948-2950.
47. Kuninobu, Y.*; Kawata A.; Yudha, S. S.; Takata, H.; Nishi, M.; Takai, K.*
Rhenium- and Manganese-Catalyzed Carbon-Carbon Bond Formation Using 1,3-Dicarbonyl Compounds and Alkynes.
Pure Appl. Chem. **2010**, *82*, 1491-1501.
46. Kuninobu, Y.*; Kawata, A.; Noborio, T.; Yamamoto, S.-i.; Matsuki, T.; Takata, K., Takai, K.*
Iridium-Catalyzed Synthesis of Keto Esters from Cyclic 1,3-Diketones and Alcohols and Application to the Synthesis of Seratrodast.
Chem. Asian J. **2010**, *5*, 941-945.

45. Kuninobu, Y.*; Nishi, M.; Kawata A.; Takata, H.; Hanatani, Y.; Yudha, S. S.; Iwai, A.; Takai, K.*
Rhenium- and Manganese-Catalyzed Synthesis of Aromatic Compounds from 1,3-Dicarbonyl Compounds and Alkynes.
J. Org. Chem. **2010**, *75*, 334-341.
[*Synfacts* **2010**, 464.]
44. Kuninobu, Y.*; Yamashita, A.; Yamamoto, S.-i.; Yudha S. S.; Takai, K.*
Rhenium-Catalyzed Addition of β -Enamino Esters to Allenes.
Synlett **2009**, 3027-3031.
43. Kuninobu, Y.*; Kawata, A.; Nishi, M.; Yudha S. S., Chen, J.; Takai, K.*
Rhenium- and Manganese-Catalyzed Insertion of Alkynes into a Carbon-Carbon Single Bond of Cyclic and Acyclic 1,3-Dicarbonyl Compounds.
Chem. Asian J. **2009**, *4*, 1424-1433.
[VIP Paper, Frontispiece]
42. Kuninobu, Y.*; Matsuki, T.; Takai, K.*
Rhenium-Catalyzed Regioselective Alkylation of Phenols.
J. Am. Chem. Soc. **2009**, *131*, 9914-9915.
[*Synfacts* **2009**, 1146]
41. Kawata, A.; Kuninobu, Y.*; Takai, K.*
Rhenium-Catalyzed Regio- and Stereoselective Dimerization and Cyclotrimerization of Terminal Alkynes.
Chem. Lett. **2009**, *38*, 836-837.
40. Kuninobu, Y.*; Fujii, Y.; Matsuki, T.; Nishina, Y.; Takai, K.*
Rhenium-Catalyzed Insertion of Nonpolar and Polar Unsaturated Molecules into an Olefinic C-H Bond.
Org. Lett. **2009**, *11*, 2711-2714.
39. Kuninobu, Y.*; Morita, A.; Mishi, M.; Kawata, A.; Takai, K.*

Rhenium-Catalyzed Formation of Bicyclo[3.3.1]nonene Frameworks by a Reaction of Cyclic β -Keto Esters with Terminal Alkynes.
Org. Lett. **2009**, *11*, 2535-2537.

38. Kuninobu, Y.*; Kawata, A.; Nishi, M.; Takata, H.; Takai, K.*
Rhenium- and Manganese-Catalyzed Insertion of Acetylenes into β -Keto Esters: Synthesis of 2-Pyranones.
Chem. Commun. **2008**, 6360-6362.
37. Yudha, S. S.; Kuninobu, Y.*; Takai, K.*
Rhenium-Catalyzed Synthesis of Stereo-Defined Cyclopentenes from β -Keto Esters and Aliphatic Allenes.
Angew. Chem. Int. Ed. **2008**, *47*, 9318-9321.
[*Synfacts* **2009**, 199]
36. Kuninobu, Y.*; Nishina, Y.; Okaguchi, K.; Shouho, M.; Takai, K.*
Reactions and Mechanistic Studies of Rhenium-Catalyzed Insertion of α,β -Unsaturated Carbonyl Compounds into a C-H Bond.
Bull. Chem. Soc. Jpn. **2008**, *81*, 1393-1401.
[BCSJ Award and Cover Picture]
35. Kuninobu, Y.*; Nishina, Y.; Matsuki, T.; Takai, K.*
Synthesis of Cp-Re Complexes via Olefinic C-H Activation and Successive Formation of Cyclopentadienes.
J. Am. Chem. Soc. **2008**, *130*, 14062-14063.
34. Kuninobu, Y.*; Ueda, H.; Takai, K.*
Rhenium-Catalyzed Coupling of 2-Propynyl Alcohols and Several Nucleophiles via Dehydration.
Chem. Lett. **2008**, *37*, 878-879.
33. Matsuo, Y.; Kuninobu, Y.; Muramatsu, A.; Sawamura, M.; Nakamura, E.*
Synthesis of Metal Fullerene Complexes by the Use of Fullerene Halides.

Organometallics **2008**, *27*, 3403-3409.

32. Kuninobu, Y.*; Takata, H.; Kawata, A.; Takai, K.*
Rhenium-Catalyzed Synthesis of Multisubstituted Aromatic Compounds via C-C Single Bond Cleavage.
Org. Lett. **2008**, *10*, 3133-3135.
31. Kuninobu, Y.*; Nishi, M.; Yudha, S. S.; Takai, K.*
Manganese-Catalyzed Construction of Tetrasubstituted Benzenes from 1,3-Dicarbonyl Compounds and Terminal Acetylenes.
Org. Lett. **2008**, *10*, 3009-3011.
[*Synfacts* **2008**, 1091]
30. Kuninobu, Y.*; Kikuchi, K.; Takai, K.*
Manganese-Catalyzed Synthesis of Hydantoin Derivatives from Terminal Alkynes and Isocyanates.
Chem. Lett. **2008**, *37*, 740-741.
29. Kuninobu, Y.*; Kikuchi, K.; Tokunaga, Y.; Nishina, Y.; Takai, K.*
Hydroarylation of Acetylenes, Acrylates and Isocyanates with Heteroaromatic Compounds under Rhenium Catalysis.
Tetrahedron **2008**, *64*, 5974-5981.
[Special Symposium in Print]
28. Kuninobu, Y.*; Nishina, Y.; Kawata, A.; Shouho, M.; Takai, K.*
Rhenium-Catalyzed Synthesis of Indene Derivatives via C-H Bond Activation.
Pure Appl. Chem. **2008**, *80*, 1149-1154.
[Invited]
27. Yudha, S. S.; Kuninobu, Y.*; Takai, K.*
Rhenium-Catalyzed Hydroamidation of Unactivated Terminal Alkynes: Synthesis of (*E*)-Enamides.
Org. Lett. **2007**, *9*, 5609-5611.

26. Kuninobu, Y.*; Inoue, Y.; Takai, K.*
Copper(I) and Gold(I)-Catalyzed Synthesis of 2,4-Disubstituted Quinoline Derivatives from *N*-Aryl Propargyl Amines.
Chem. Lett. **2007**, *36*, 1422-1423.
25. Kawata, A.; Takata, K.; Kuninobu, Y.*; Takai, K.*
Indium-Catalyzed Retro-Claisen Condensation.
Angew. Chem. Int. Ed. **2007**, *46*, 7793-7795.
24. Kuninobu, Y.*; Yu, P.; Takai, K.*
Rhenium-Catalyzed [2+2] Cycloadditions of Norbornenes with Internal and Terminal Acetylenes.
Chem. Lett. **2007**, *36*, 1162-1163.
23. Kuninobu, Y.*; Nishina, Y.; Takeuchi, T.; Takai, K.*
Manganese-Catalyzed Insertion of Aldehydes into a C-H Bond.
Angew. Chem. Int. Ed. **2007**, *46*, 6518-6520.
[Hot Paper]
22. Kuninobu, Y.*; Ueda, H.; Kawata, A.; Takai, K.*
Rearrangement of Indene Skeletons under Mild Conditions.
J. Org. Chem. **2007**, *72*, 6749-6752.
21. Kuninobu, Y.*; Nishina, Y.; Takai, K.*
Rhenium-Catalyzed Synthesis of Naphthalene Derivatives via Insertion of Aldehydes into a C-H Bond.
Tetrahedron **2007**, *63*, 8463-8468.
[“Special Symposium in Print” to honor Professor Hisashi Yamamoto]
20. Kuninobu, Y.*; Tokunaga, Y.; Takai, K.*
Rhenium-Catalyzed Amidation of Heteroaromatic Compounds via C-H Bond Activation.

Chem. Lett. **2007**, *36*, 872-873.

19. Kuninobu, Y.*; Ishii, E.; Takai, K.*

Rhenium and Gold-Catalyzed Coupling of Aromatic Aldehydes with Trimethyl(phenylethynyl)silane: Synthesis of Diethynylmethanes.
Angew. Chem. Int. Ed. **2007**, *46*, 3296-3299.

18. Kuninobu, Y.*; Inoue, Y.; Takai, K.*

Rhenium-Catalyzed Addition of Trimethylsilyl Acetylene to Aldimines.
Chem. Lett. **2006**, *35*, 1376-1377.

17. Kuninobu, Y.*; Nishina, Y.; Nakagawa, C.; Takai, K.*

Rhenium-Catalyzed Insertion of Aldehyde into C-H Bond: Synthesis of Isobenzofuran Derivatives.
J. Am. Chem. Soc. **2006**, *128*, 12376-12377.
[*Synfacts* **2006**, 1213]

16. Kuninobu, Y.*; Kawata, A.; Takai, K.*

Efficient Catalytic Insertion of Acetylenes into Carbon-Carbon Single Bond of Non-Strained Cyclic Compounds under Mild Conditions.
J. Am. Chem. Soc. **2006**, *128*, 11368-11369.

15. Kuninobu, Y.*; Nishina, Y.; Takai, K.*

Sequential Ruthenium-Catalyzed Hydroamination and Rhenium-Catalyzed C-H Bond Activation Leading to Indene Derivatives.
Org. Lett. **2006**, *8*, 2891-2893.

14. Kuninobu, Y.*; Nishina, Y.; Shouho, M.; Takai, K.*

Rhenium- and Aniline-Catalyzed One-Pot Annulation of Aromatic Ketones and α,β -Unsaturated Esters Initiated by C-H Bond Activation.
Angew. Chem., Int. Ed. **2006**, *45*, 2766-2768.

13. Kuninobu, Y.*; Nishimura, S.; Takai, K.*

Isocyanate Acting as a Carbonyl Precursor: Pyridyl Group-Assisted Formation of 4*H*-Pyrido[1,2-*a*]pyrimidin-4-ones from Ketimines and Isocyanates.

Org. Biomol. Chem. **2006**, *4*, 203-205.

[*Synfacts* **2006**, 327]

12. Kuninobu, Y.*; Tokunaga, Y.; Kawata, A.; Takai, K.*

Insertion of Polar and Nonpolar Unsaturated Molecules into Carbon-Rhenium Bonds Generated by C-H Bond Activation: Synthesis of Indene and Phthalimidine Derivatives.

J. Am. Chem. Soc. **2006**, *128*, 202-209.

[*Synfacts* **2006**, 319]

11. Kuninobu, Y.*; Kawata, A.; Takai, K.*

Rhenium-Catalyzed Insertion of Terminal Acetylenes into a C-H Bond of Active Methylene Compounds.

Org. Lett. **2005**, *7*, 4823-4825.

10. Kuninobu, Y.*; Kawata, A.; Takai, K.*

Rhenium-Catalyzed Formation of Indene Frameworks via C-H Bond Activation: [3+2] Annulation of Aromatic Aldimines and Acetylenes.

J. Am. Chem. Soc. **2005**, *127*, 13498-13499.

9. Herber, R. H.*; Nowik, I.; Matsuo, Y.; Toganoh, M.; Kuninobu, Y.; Nakamura, E.*

Mössbauer Spectroscopy of Bucky Ferrocene: Lattice Dynamics and Motional Anisotropy of the Metal Atom.

Inorg. Chem. **2005**, *44*, 5629-5635.

8. Shimada, T.*; Yamamoto, Y.; Kaji, T.; Itaka, K.; Koinuma, H.; Kuninobu, Y.; Matsuo, Y.; Nakamura, E.; Saiki, K.

Photoinduced Change in the Raman Spectrum of Buckyferrocene ((Fe(C₆₀(CH₃)₅)C₅H₅)).

Solid State Commun. **2004**, *132*(3-4), 197-201.

7. Kaji, T.; Shimada, T.; Inoue, H.; Kuninobu, Y.; Matsuo, Y.; Nakamura, E.*; Saiki, K.*
Molecular Orientation and Electronic Structure of Epitaxial Bucky Ferrocene (Fe(C₆₀(CH₃)₅)C₅H₅) Thin Films.
J. Phys. Chem. B **2004**, *108*, 9914-9918.
6. Kuninobu, Y.; Matsuo, Y.; Toganoh, M.; Sawamura, M.; Nakamura, E.*
Nickel, Palladium and Platinum Complexes of η^5 -Cyclopentadienide C₆₀R₅ Ligands. Kinetic and Thermodynamic Stabilization Effects of C₆₀Ph₅ Ligand.
Organometallics **2004**, *23*, 3259-3266.
5. Matsuo, Y.; Kuninobu, Y.; Ito, S.; Nakamura, E.*
Synthesis and Reactivity of Bucky Ruthenocene Ru(η^5 -C₆₀Me₅)(η^5 -C₅H₅).
Chem. Lett. **2004**, 68-69.
4. Sawamura, M.; Kuninobu, Y.; Toganoh, M.; Matsuo, Y.; Yamanaka, M.; Nakamura, E.*
Hybrid of Ferrocene and Fullerene.
J. Am. Chem. Soc. **2002**, *124*, 9354-9355.
3. Shimada, T.*; Nakatani, H.; Ueno, K.; Koma, A.; Kuninobu, Y.; Sawamura, M.; Nakamura, E.
Epitaxial Growth and Electronic Structure of a C₆₀ Derivative Prepared by Using a Solution Spray Technique.
J. Appl. Phys. **2001**, *90*, 209-212.
2. Sawamura, M.*; Kuninobu, Y.; Nakamura, E.*
Half-Sandwich Metallocene Embedded in a Spherically Extended π -Conjugate System. Synthesis, Structure, and Electrochemistry of Rh(η^5 -C₆₀Me₅)(CO)₂.
J. Am. Chem. Soc. **2000**, *122*, 12407-12408.
1. Sawamura, M.*; Toganoh, M.; Kuninobu, Y.; Kato, S.; Nakamura, E.*
Synthesis of Pentamethyl-Monohydro[60]fullerene C₆₀Me₅H and Its Use as

Cyclopentadienyl-Type Ligand Precursor.

Chem. Lett. **2000**, 270-271.