

論文リスト

October 19, 2018

[2018]

[112] Togo, T.; Sohma, Y.; Kuninobu, Y.; Kanai, M.*

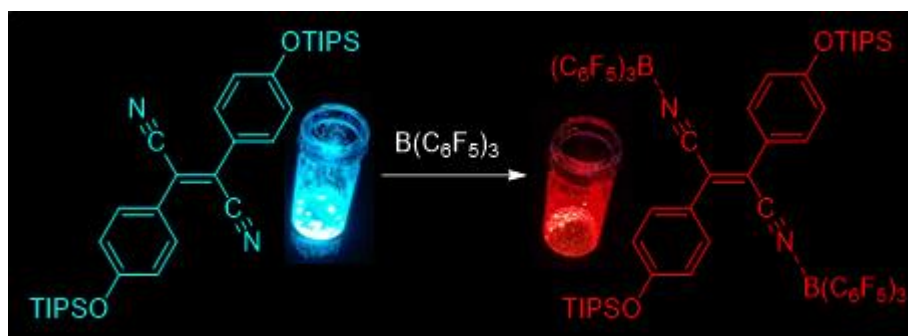
Palladium-Catalyzed C–H Heteroarylation of 2,5-Disubstituted Imidazoles

Chem. Pharm. Bull. **2018**, accepted.

[111] Yamakawa, T.; Yoshigoe, Y.; Wang, Z.; Kanai, M.; Kuninobu, Y.*

Preparation of Solid-state Luminescent Materials by Complexation between π -Conjugated Molecules and Activators

Chem. Lett. **2018**, 47, 1391-1394 (DOI: 10.1246/cl.180735).

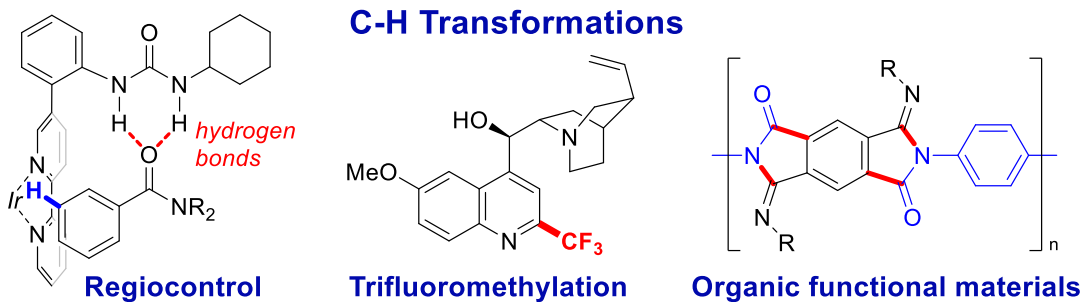


[110] Kuninobu, Y.*

Development of Novel C-H Bond Transformations and Their Application to the Synthesis of Organic Functional Molecules

Synlett **2018**, 29, 2093-2107 (DOI: 10.1055/s-0037-1610531).

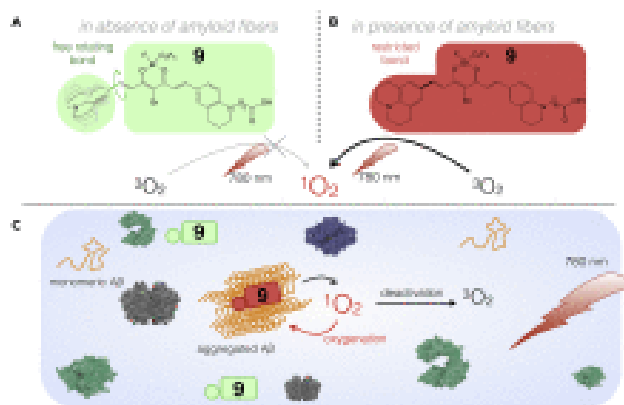
[Personal Account, Invited]



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Near-Infrared Photoactivatable Oxygenation Catalysts of Amyloid. Peptide.

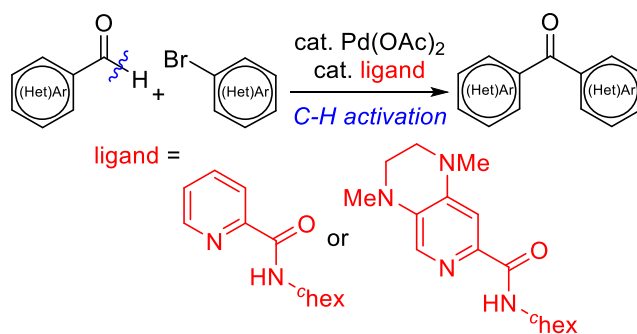
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Palladium-Catalyzed Synthesis of Diaryl Ketones from Aldehydes and (Hetero)Aryl Halides via C-H Bond Activation.

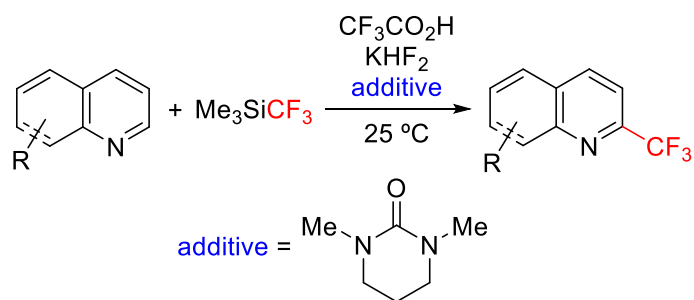
ACS Catal. **2018**, *8*, 3123-3128 (DOI: 10.1021/acscatal.8b00440).



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2-Position-Selective C-H Perfluoroalkylation of Quinoline Derivatives.

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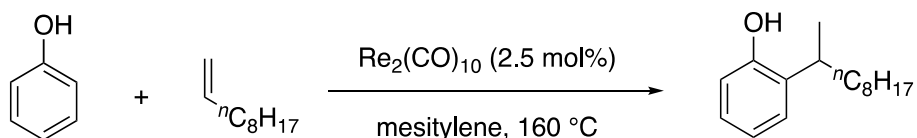


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Rhenium-Catalyzed *ortho*-Alkylation of Phenols.

Org. Synth. **2017**, *94*, 280-291 (10.15227/orgsyn.094.0280).

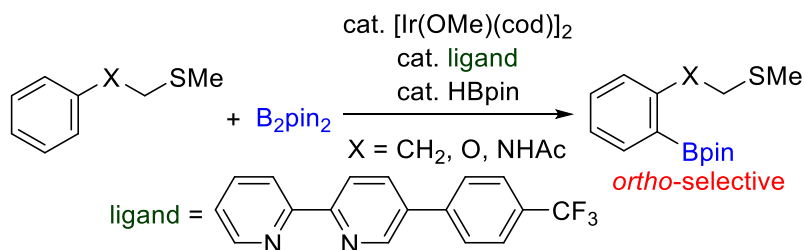


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Iridium/Bipyridine-Catalyzed *ortho*-Selective C-H Borylation of Phenol and Aniline Derivatives.

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[*Synfacts* **2018**, *14*, 81]

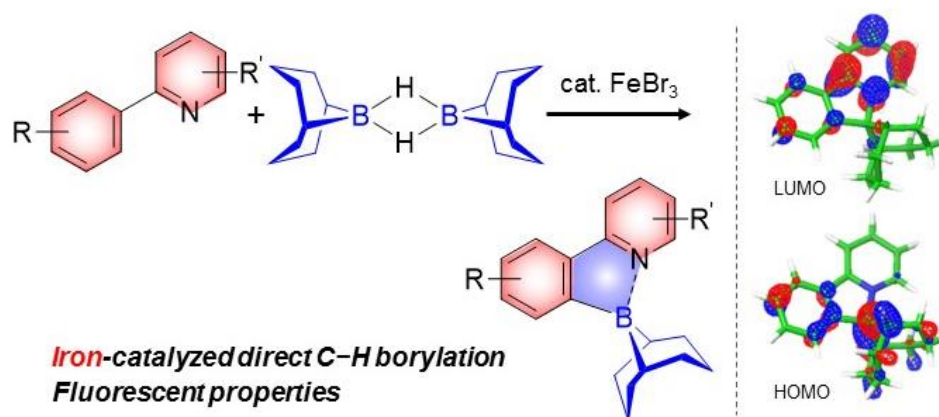


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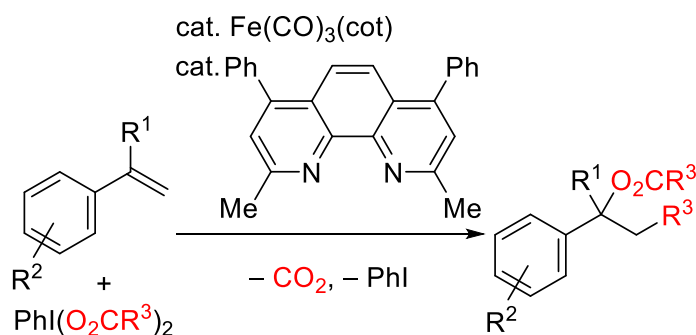
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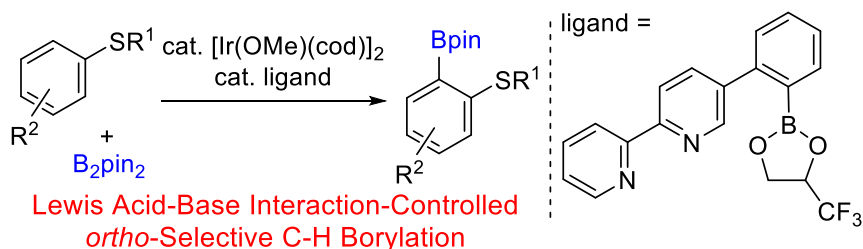


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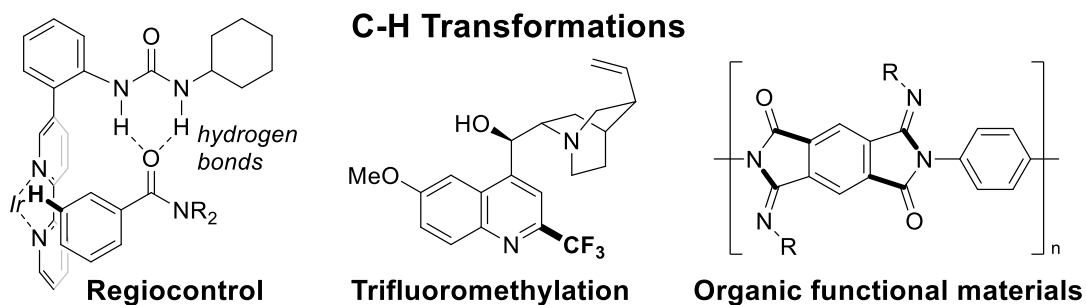
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Development of Novel C-H Bond Transformations Directed Towards Organic Functional Molecules.

J. Synth. Org. Chem. Jpn. **2016**, *74*, 1058-1068.

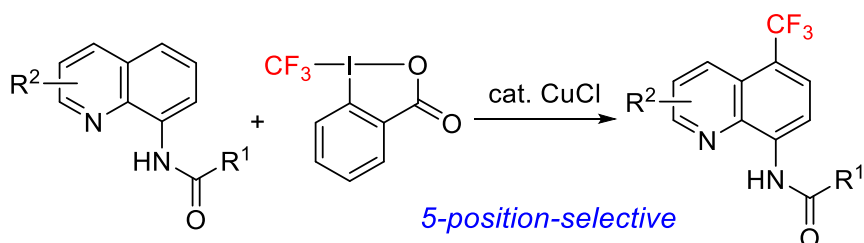
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5-Position-selective C-H Trifluoromethylation of 8-Aminoquinoline Derivatives.

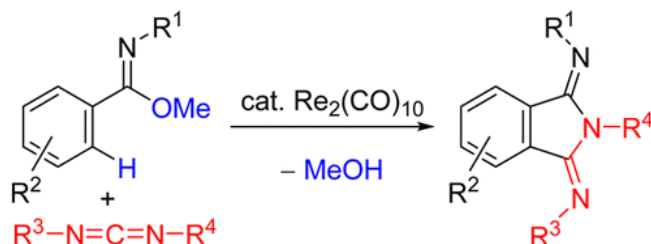
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Rhenium-Catalyzed Synthesis of 1,3-Diiminoisoindolines via Insertion of Carbodiimides into a C-H Bond of Aromatic and Heteroaromatic Imidates.

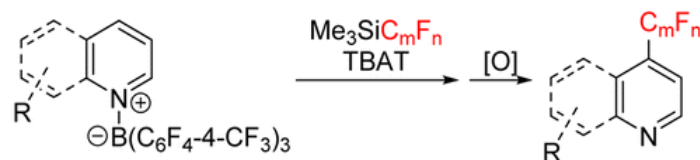
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4-Position-Selective C-H Perfluoroalkylation and Perfluoroarylation of Six-Membered Heteroaromatic Compounds.

J. Am. Chem. Soc. **2016**, *138*, 6103-6106 (DOI: 10.1021/jacs.6b01753).

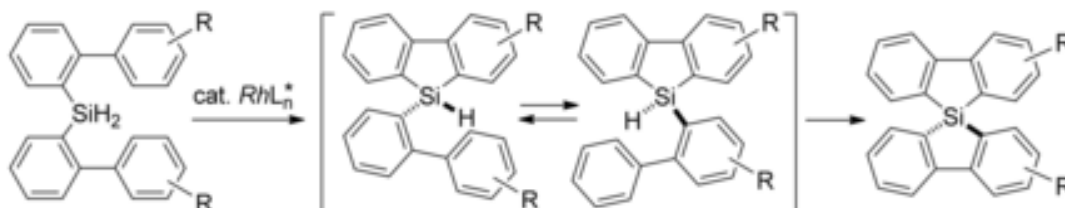


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[Hot Paper]

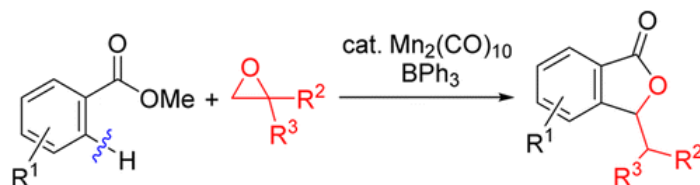


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Manganese- and Borane-Mediated Synthesis of Isobenzofuranones from Aromatic Esters and Oxiranes via C-H Bond Activation.

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[*Synfacts* **2016**, *12*, 407] [Web of Science 高被引用文献]



Cooperative Manganese and Borane Catalysis
&
First Example of Oxygen-Directing Group-Assisted Manganese-Catalyzed C-H Transformation

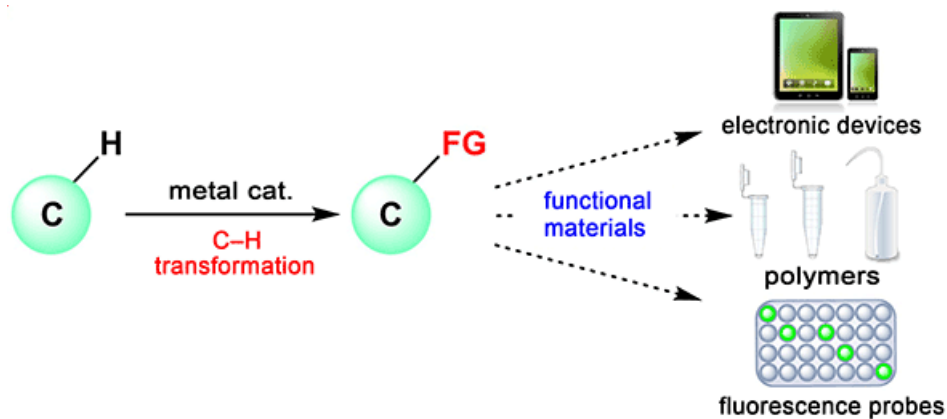
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[Review] [Cover]



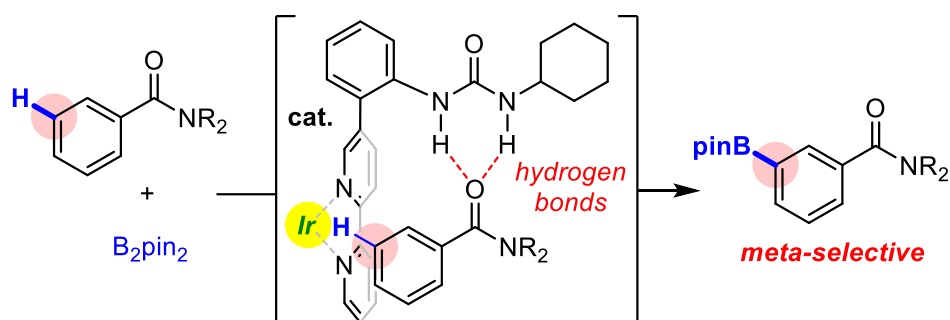
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A *meta*-selective C-H borylation directed by a secondary interaction between ligand and substrate.

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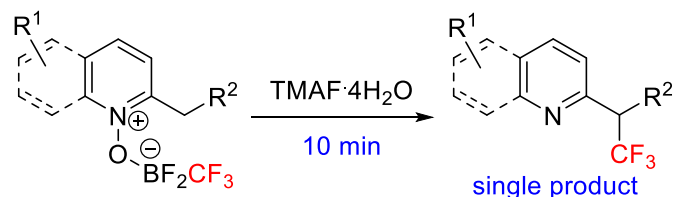
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Benzylic C(sp³)-H Perfluoroalkylation of Six-Membered Heteroaromatic Compounds.

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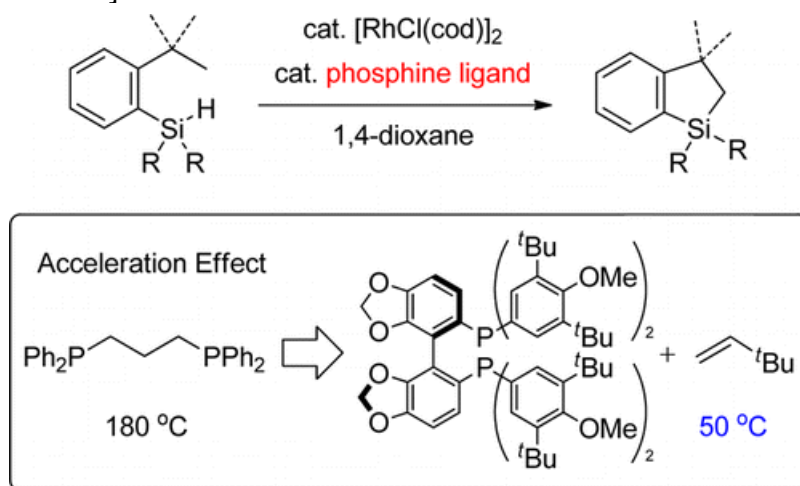


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Acceleration Effects of Phosphine Ligands on the Rhodium-Catalyzed Dehydrogenative Silylation and Germylation of Unactivated $\text{C}(\text{sp}^3)\text{-H}$ Bonds.

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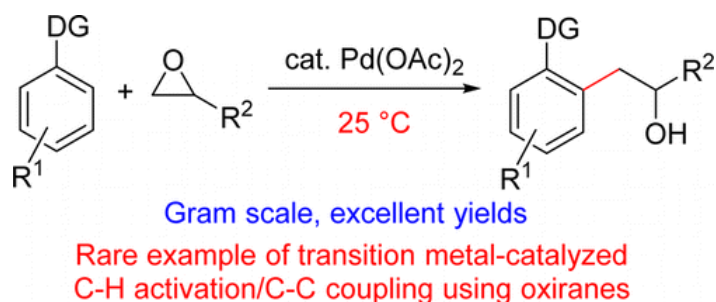


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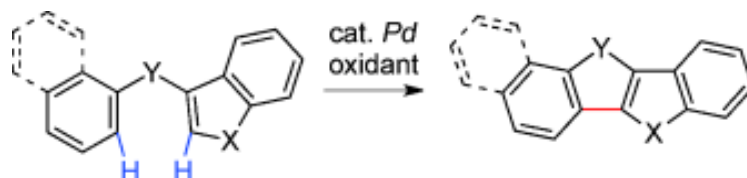
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Palladium-Catalyzed Construction of Heteroatom-Containing π -Conjugated Systems by Intramolecular Oxidative C-H/C-H Coupling Reaction.

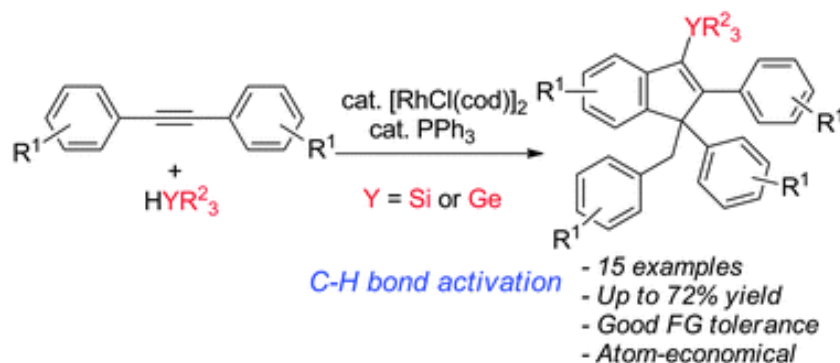
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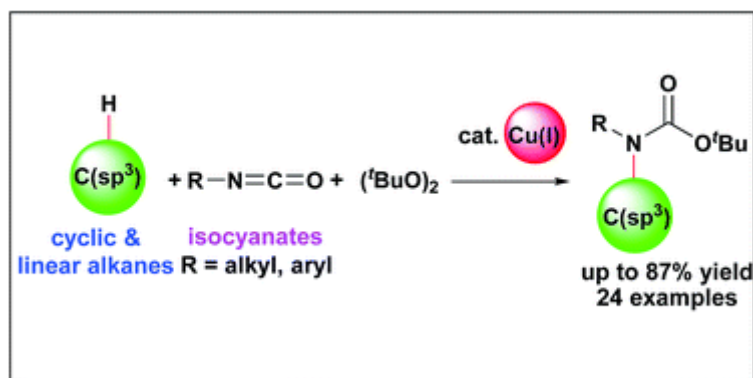


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Copper-Catalyzed Intermolecular C(sp³)-H Bond Functionalization Towards the Synthesis of Tertiary Carbamates.

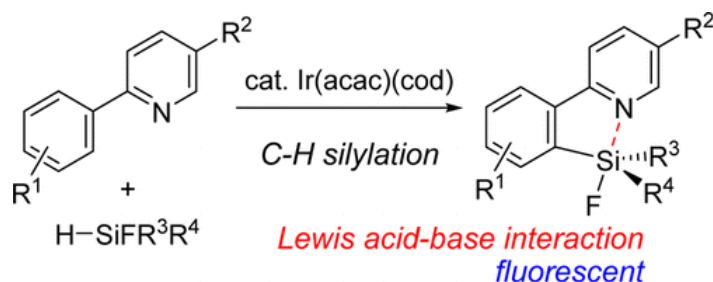
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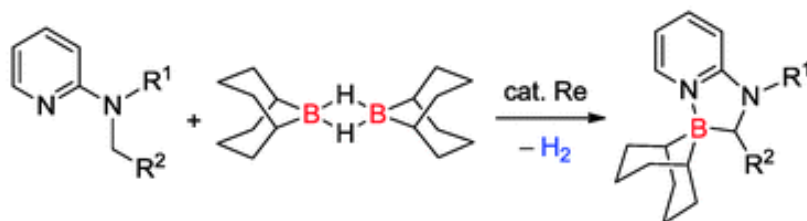
Iridium-Catalyzed *ortho*-Selective C-H Silylation of Aromatic Compounds Directed toward the Synthesis of π -Conjugated Molecules with Lewis Acid-Base Interaction. *Org. Lett.* **2015**, *17*, 1758-1761 (DOI: 10.1021/acs.orglett.5b00529).



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Dehydrogenative borylation of primary and secondary $\text{C}(\text{sp}^3)\text{-H}$ bonds



Re-catalysed functionalization of $\text{C}(\text{sp}^3)\text{-H}$ bond.
 High atom economy. No oxidants, external ligands or additives.

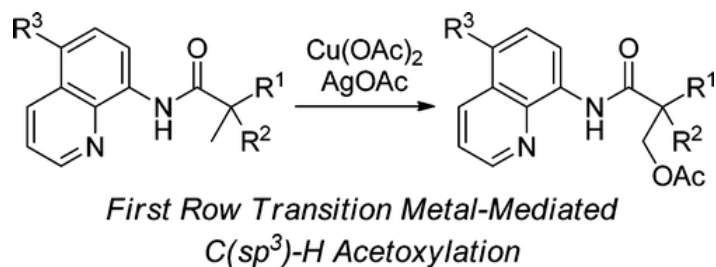
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Org. Lett. **2014**, *16*, 4790-4793 (DOI: 10.1021/ol5022542).

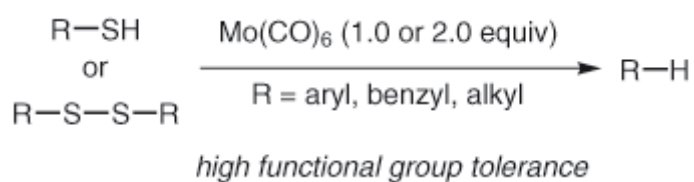
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Molybdenum-Mediated Desulfurization of Thiols and Disulfides.

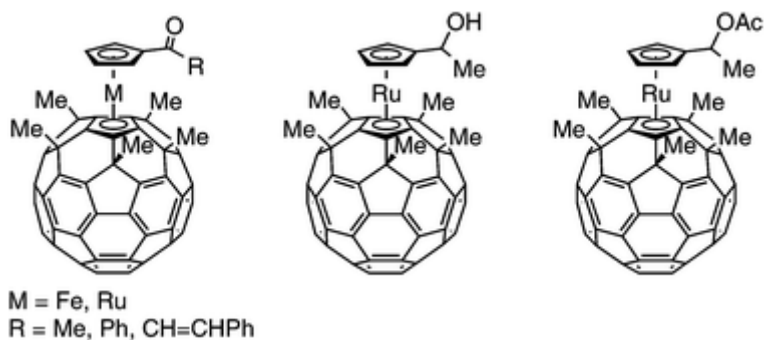
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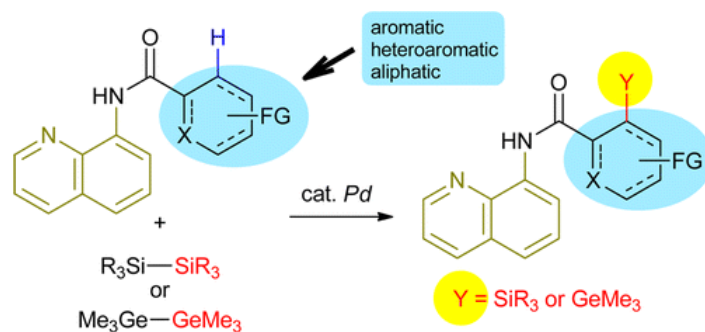
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Palladium-Catalyzed Direct C–H Silylation and Germanylation of Benzamides and Carboxyamides.

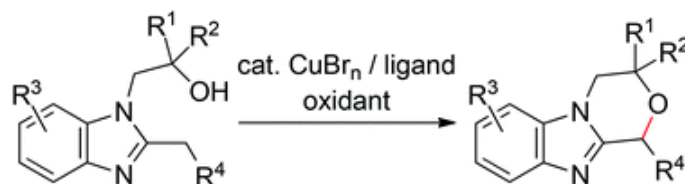
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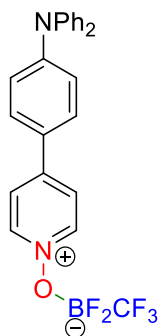
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Synthesis of Pyridine *N*-Oxide-BF₂CF₃ Complexes and Their Fluorescence Properties.

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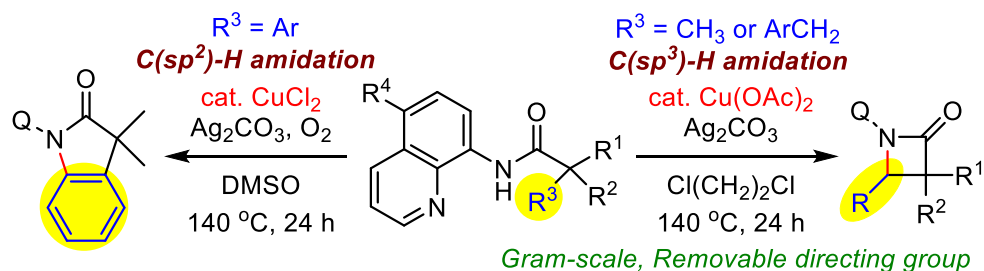


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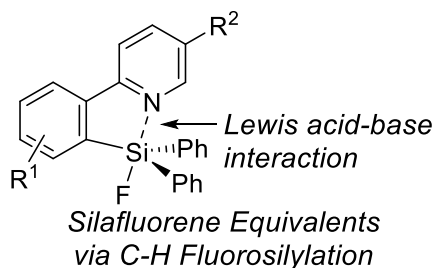
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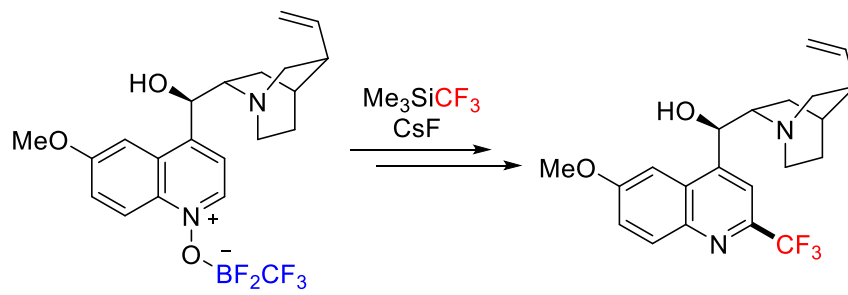


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Nat. Commun. **2014**, *5*, 3387 (DOI: 10.1038/ncomms4387).

[Nature Communications Chemistry Selections]



First example of 2-position-selective C-H trifluoromethylation

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