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Youji Huaxue

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(YOUJI HUAXUE)

第 37 卷 第 5 期 (总 342 期) 2017 年 5 月*

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* 通讯联系人.

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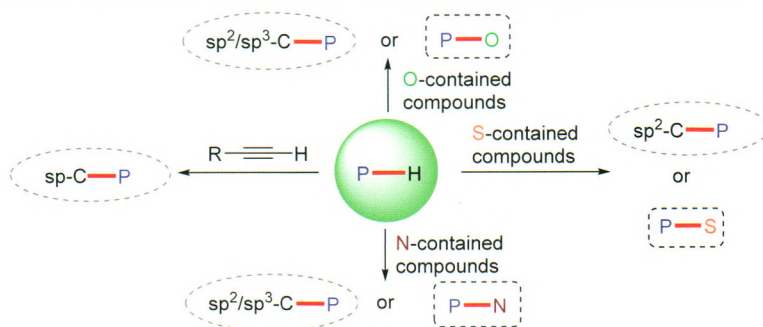
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On the Cover

The first rhodium-catalyzed stereospecific intermolecular [3+2] cycloaddition reaction of vinylaziridines and ynamides was realized by Zhu, Feng and Zhang on page 1165. The reaction provides an efficient and atom-economic route to valuable 2-amino pyrroline derivatives in an enantioselective manner by a chirality-transfer strategy. Of note, just as the ECNU's Liwa bridge has a significant effect on the ECNU's teachers and students, the $[\text{Rh}(\text{NBD})_2]\text{BF}_4$ catalyst plays a central role on the current reaction.

REVIEWS

Recent Advances in the Synthesis of Organophosphorus Compounds via Cross Coupling between Readily Available Materials and P—H Compounds

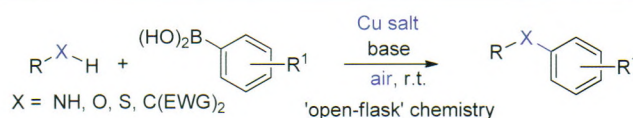


Yang, Jia; Xiao, Jing; Zhou, Yongbo*; Chen, Tiejiao*; Yin, Shuangfeng; Han, Li-biao*

Chin. J. Org. Chem. **2017**, 37(5), 1055

This mini-review focuses on the recent advances in the synthesis of organophosphorus compounds via cross coupling of P—H compounds with readily available starting materials, mainly including the reactions of terminal alkynes and heteroatom compounds (oxygen, sulfur or nitrogen-containing compounds) with P—H compounds forming sp—C—P, sp²—C—P, sp³—C—P, and P—Z bonds. Related reaction mechanisms are also discussed.

Recent Advances in Chan-Evans-Lam Coupling Reaction

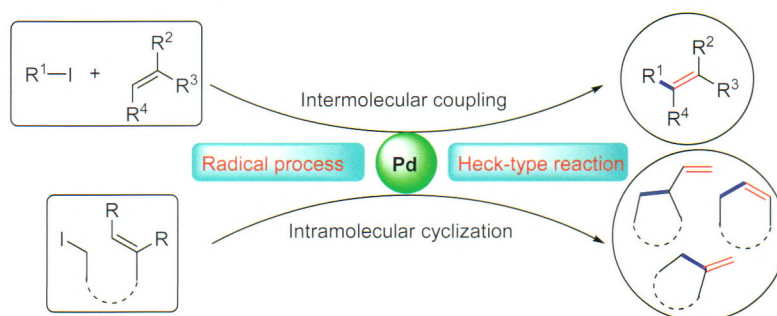


Ma, Xiaopan; Liu, Fengping; Mo, Dongliang*

Chin. J. Org. Chem. **2017**, 37(5), 1069

In this paper, the development of Chan-Evans-Lam reaction in the construction of carbon-heteroatom and carbon-carbon bonds as well as its application in total synthesis in recent five years are reviewed.

Recent Advances on Alkyl-Heck Reaction



Dong, Xu; Hou, Yongzheng; Meng, Fanwei; Liu, Hongbo; Liu, Hui*

Chin. J. Org. Chem. **2017**, 37(5), 1088

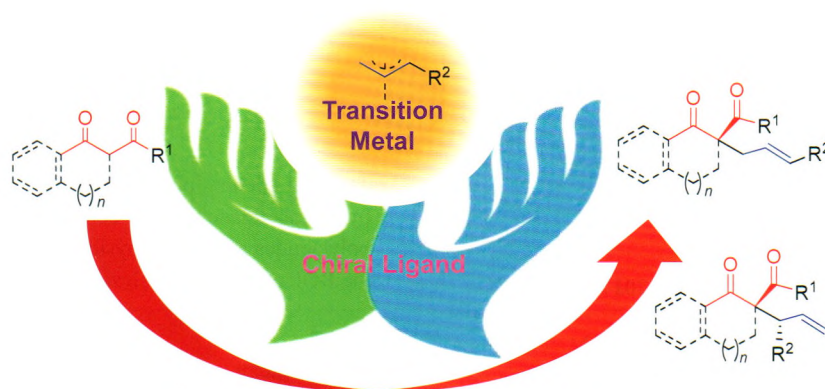
The recent progress in the palladium radical involved Heck-type reaction is reviewed. For most of these transformations, the plausible mechanisms are demonstrated in details. Clarification of these issues is the key point for understanding this field and developing new high performance methodologies.

CONTENT

Progress on Transition Metal-Catalyzed Asymmetric Allylic Alkylation Reaction of 1,3-Dicarbonyl Compounds

Zheng, Nan; Song, Wangze*

Chin. J. Org. Chem. **2017**, 37(5), 1099

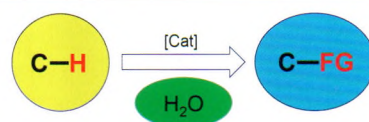


Asymmetric allylic alkylation reaction of 1,3-dicarbonyl compounds is one of the most important methods for forming chiral carbon center. This review summarizes the progress on transition metal-catalyzed asymmetric allylic alkylation reaction of 1,3-dicarbonyl compounds. Different allylating reagents such as allylic esters, allylic alcohols, allylic halides, olefins, allenes and others for the synthesis of α -allyl substituted 1,3-dicarbonyl compounds are discussed.

Progress in Catalytic C—H Activation Reactions in Water

Yang, Jun; Fu, Ting; Long, Yang; Zhou, Xiangge*

Chin. J. Org. Chem. **2017**, 37(5), 1111

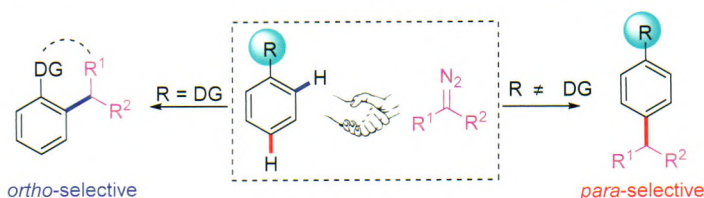


C—H bond functionalization is one of the hot spots in the research field of organic chemistry, and normally performed in organic solvents. This paper reviews the recent progress of aqueous catalyzed C—H functionalization reactions, including hybridized sp -, sp^2 -, and sp^3 -C—H bonds.

Development of Transition-Metal-Catalyzed $C(sp^2)$ —H Functionalization of Arenes with Diazo Compounds

Liu, Lu*; Zhang, Junliang*

Chin. J. Org. Chem. **2017**, 37(5), 1117

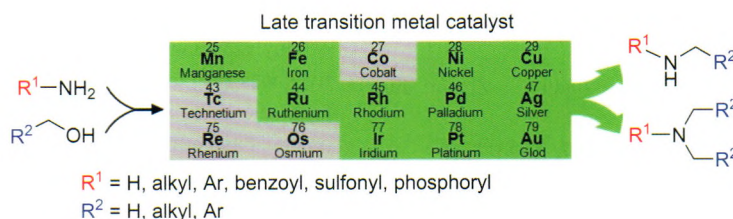


C—H bond functionalization has been one of the most important subject in chemistry. This review summarizes the progress in transition-metal-catalyzed $C(sp^2)$ —H functionalization of arenes with diazo compounds. To realize the site selectivity, two strategies are utilized. One is directed C—H activation, which gives the *ortho*-selective C—H functionalization products. The other is undirected approach, which normally exhibits *para*-selectivity.

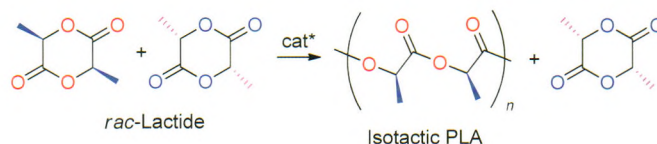
Progress in Late Transition Metal-Catalyzed *N*-Alkylation of Amines with Alcohols

Wu, Hui; Wu, Juncheng; Du, Zhengyin*

Chin. J. Org. Chem. **2017**, 37(5), 1127



The progress in late transition metal-catalyzed *N*-alkylation reaction with alcohols as alkylating agents starting from various aliphatic, aromatic and heterocyclic aromatic amines in recent years is reviewed. Various homogeneous and heterogeneous catalytic systems as well as the substrate application scope of each method involved in this reaction are mainly introduced. The expectation and development direction about this *N*-alkylation in future are suggested.

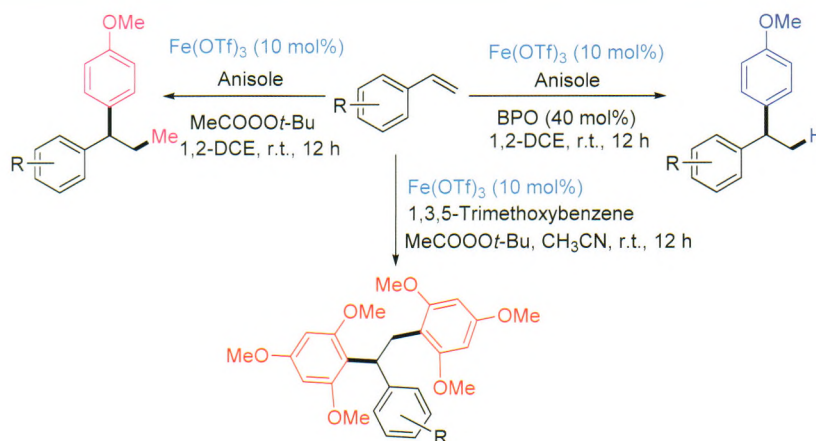
Progress in Ring Opening Polymerization
of Lactides Catalyzed by Chiral Organometallic Complexes

The ring opening polymerization (ROP) of lactides in stereoselective manner catalyzed by chiral organometallic complexes has received widespread attention because of the polylactides attractive physical and mechanical properties. In this paper, the progress in the ROP of lactides catalyzed by chiral organometallic complexes is reviewed.

Zhao, Ning*

Chin. J. Org. Chem. **2017**, 37(5), 1139

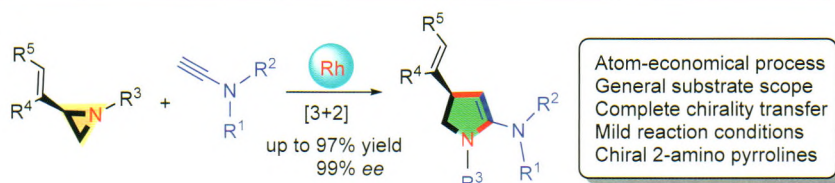
COMMUNICATION

Iron Catalyzed Oxidative Hydroarylation,
Methylarylation, and Diarylation of Vi-
nylarenes to Generate Unsymmetrical
1,1-Diarylalkanes

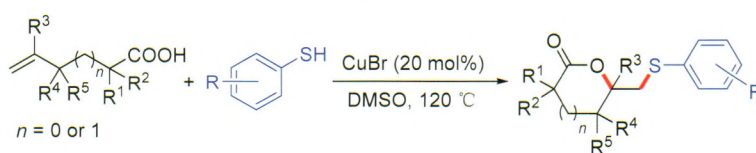
A novel iron catalyzed hydroarylation, methylarylation and diarylation of styrenes to form unsymmetrical 1,1-diarylalkanes with electron rich anisole and 1,3,5-trimethoxybenzene under mild conditions have been developed. Benzoyl peroxide is used as an oxidant for hydroarylation, whereas in the case of methylarylation and diarylation the oxidant *tert*-butyl peracetate is used.

Babu, Kaki Raveendra; Chen, Shaowei;
Li, Yajun; Bao, Hongli**Chin. J. Org. Chem.* **2017**, 37(5), 1160

ARTICLES

Rhodium(I)-Catalyzed Stereospecific
[3 + 2] Cycloadditions of Vinylaziridines
and Ynamides

The first rhodium-catalyzed stereospecific intermolecular [3 + 2] cycloaddition reaction of vinylaziridines with ynamides for the synthesis of valuable 2-amino pyrroline derivatives was realized. Use of readily available starting materials, a broad substrate scope, high selectivity and yield, as well as mild reaction conditions make this approach very practical and attractive.

Zhu, Chaoze; Feng, Jianjun*; Zhang, Jun-
liang**Chin. J. Org. Chem.* **2017**, 37(5), 1165Copper-Catalyzed Oxysulfenylation of
Alkenoic Acids with Benzenethiols: A
Strategy to Construct Sulfenylated Lac-
tones

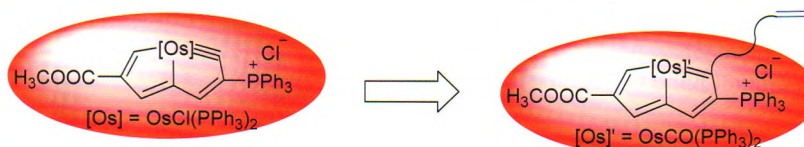
An efficient copper-catalyzed oxysulfenylation of alkenoic acids with benzenethiols via radical pathway was developed. The reactions are easy to conduct, occur under mild conditions, and form a broad range of sulfenylated lactones in good yields.

Chen, Manman; Wang, Lijing*; Li, Wei*

Chin. J. Org. Chem. **2017**, 37(5), 1173

CONTENT

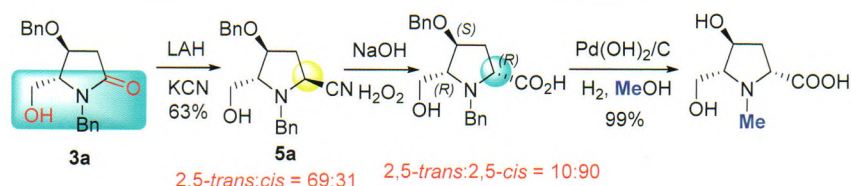
Synthesis of Olefinic Carbonyl Complexes



Lu, Zhengyu; Chen, Jiangxi; Xia, Haiping*
Chin. J. Org. Chem. **2017**, 37(5), 1181

Based on the reactivities of metallapentalynes, olefinic carbonyl complexes are synthesized. The features of the resultant olefinic carbonyl complexes are mainly discussed.

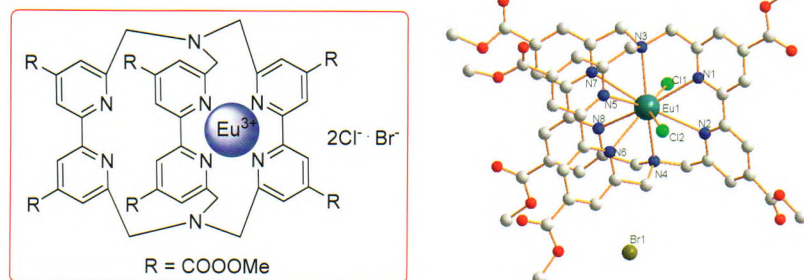
Direct Reductive Cyanation of A 2-Pyrrolidinone Chiral Building Block Bearing An Unprotected Hydroxyl Group: A Stereoselective Synthesis of *N*-Methyl-2-*epi*-bulgocine



Gao, Yanjiao; Xiao, Zhenhua; Liu, Liang-xian*; Huang, Peiqiang*
Chin. J. Org. Chem. **2017**, 37(5), 1189

The direct reductive cyanation of 5-hydroxymethyl-2-pyrrolidinone derivative paved a concise synthesis of 2,5-*cis*-(−)-*N*-methyl-2-*epi*-bulgocine.

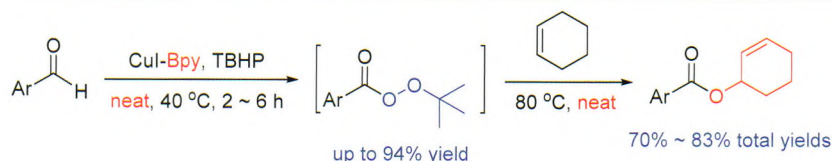
Synthesis and Properties of Sodium and Europium(III) Cryptates Incorporating the 4,4'-Substituted-2,2'-bipyridine Units



Chen, Sufang; Hong, Yubiao; Liu, Yuanzhong; Xue, Mingqiang*; Zheng, Yu; Shen, Qi
Chin. J. Org. Chem. **2017**, 37(5), 1198

An effective approach for the syntheses of sodium and europium(III) cryptates is described. The crystal structure of the cryptate [Eu(bpy•bpy•bpy)]•2Cl•Br was determined. This cryptate presents an efficient red luminescence with the high quantum efficiency of 70%.

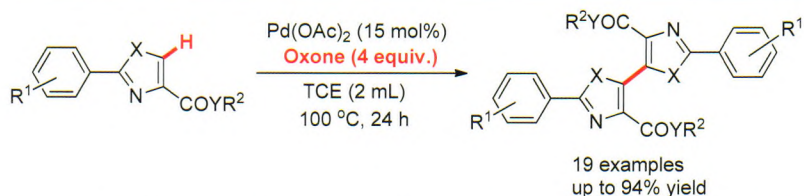
Ligand-Triggered, Copper Catalyzed Synthesis of Peresters and Allylic Ester from Aldehydes



Xu, Dingjian; Meng, Lichen; Xu, Hang; Yao, Xiaoquan*
Chin. J. Org. Chem. **2017**, 37(5), 1205

A copper iodide catalyzed reaction of aldehydes and *t*-butyl hydroperoxide (TBHP) was developed for the synthesis of peresters in the presence of bipyridine ligand under mild and neat conditions. The addition of bipyridine ligand increased the catalytic activities of copper catalyst significantly and triggered the reaction. Furthermore, a one-pot synthesis of allylic esters was also achieved by the addition of alkenes to the reaction mixture under neat condition at relative lower temperature.

Palladium(II)-Catalyzed Homocoupling of Oxazole/Thiazole in Absence of Silver Oxidant

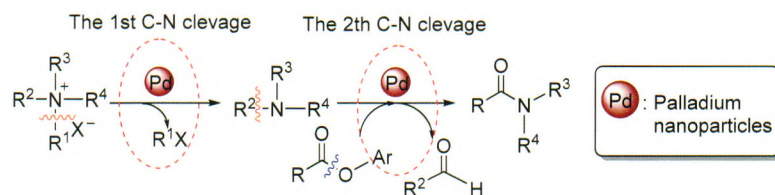


Li, Yao; Ma, Lifang*; Wang, Xiaojiao; Lei, Bowen; Zhao, Yi; Yang, Jiayu; Li, Ziyuan*
Chin. J. Org. Chem. **2017**, 37(5), 1213

Homocoupling of oxazole/thiazole via palladium-catalyzed C—H bond activation using oxone as an oxidant has been achieved in moderate to excellent yields with good functional group tolerance. No other additive or ligand was employed in this efficient reaction. A preliminary mechanism involving a Pd^{II}/Pd^{IV} catalytic cycle is also proposed.

Aminolysis of Esters Using Quaternary Ammonium Salts as Amine Sources via Twice C—N Bond Activations

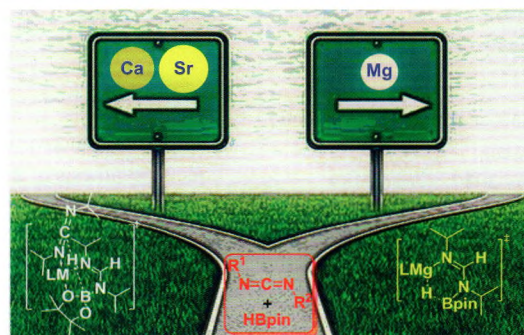
Wang, Lili; Li, Pengshuai; Jia, Meilin; Bao, Yongsheng*

Chin. J. Org. Chem. **2017**, 37(5), 1220

Catalyzed by supported palladium nanoparticles, an aminolysis reaction between various aryl esters and quaternary ammonium salts via twice C—N bond activations has been developed for selectively synthesis of amides. The Pd/ γ - Al_2O_3 catalyst exhibited an excellent catalytic activity and reusability of at least five recycles in air for the reaction.

Mechanism of Alkaline Earth Metal Catalyzed Hydroboration of Carbodiimides: A Theoretical Study

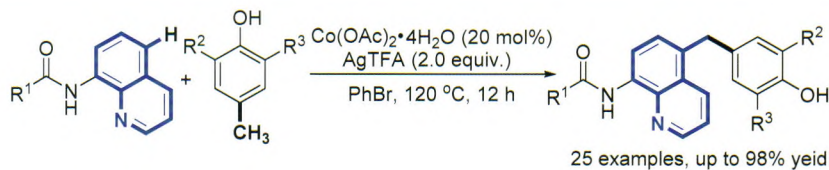
Xu, Dongdong; Shan, Chunhui; Bai, Ruopeng*; Lan, Yu*

Chin. J. Org. Chem. **2017**, 37(5), 1231

Density functional theory (DFT) calculations are employed to study the mechanism of alkaline earth metal catalyzed hydroboration of carbodiimides. The active catalytic species is a hydridemagnesium complex when magnesium is used as catalyst. Alternatively, DFT calculations showed that the active catalytic species is amide-metal complex, and the corresponding reactions undergo through different pathways. These differences could be attributed to the larger radius and steric effect of calcium and strontium.

Cobalt-Catalyzed C—H Benzylolation of 8-Aminoquinolines on C(5) Position

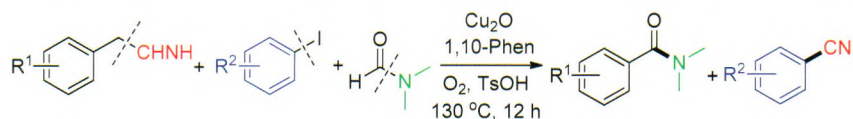
Zhang, Jiaheng; Hao, Xinqi; Wang, Zhenglong; Ren, Changjiu; Niu, Junlong*; Song, Maoping*

Chin. J. Org. Chem. **2017**, 37(5), 1237

The cobalt-catalyzed benzylolation of aminoquinolines through $C(sp^2)-H/C(sp^3)-H$ cross-couplings is developed, affording desired products in moderate to good yields.

Synthesis of *N,N*-Dimethyl Benzamide and Benzonitriles through Copper-Catalyzed One-Pot Reaction

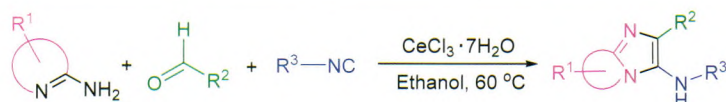
Zhang, Wei; Hu, Chenxu; Zhou, Xiangge*

Chin. J. Org. Chem. **2017**, 37(5), 1246

Copper-catalyzed amidation of benzyl cyanide and cyanation of aryl iodides by using *N,N*-dimethyl formamide (DMF) as amide source by “one pot” reaction is reported, generating the corresponding products *N,N*-dimethylbenzamide and benzonitrile in yields up to 85% with good regioselectivity and atomic economy.

Convenient Synthesis of Imidazo-Fused Heterocycles via $CeCl_3 \cdot 7H_2O$ Catalyzed Groebke-Blackburn-Bienayme Reaction

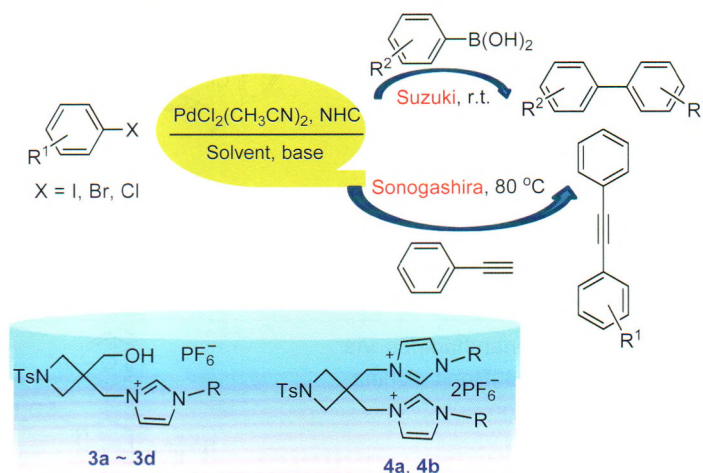
Zhang, Zhaorui; Xu, Liang; Tang, Hanqin; Wu, Boxin; Feng, Di; Guo, Changbin*

Chin. J. Org. Chem. **2017**, 37(5), 1252

A simple, efficient and eco-friendly “one-pot” method for the convenient synthesis of imidazo-fused heterocycles via Groebke-Blackburn-Bienayme reaction has been developed, in which, the reaction was catalyzed by $CeCl_3 \cdot 7H_2O$ and started from aldehydes, aminoazines and isocyanides in ethanol under $60\text{ }^\circ\text{C}$.

CONTENT

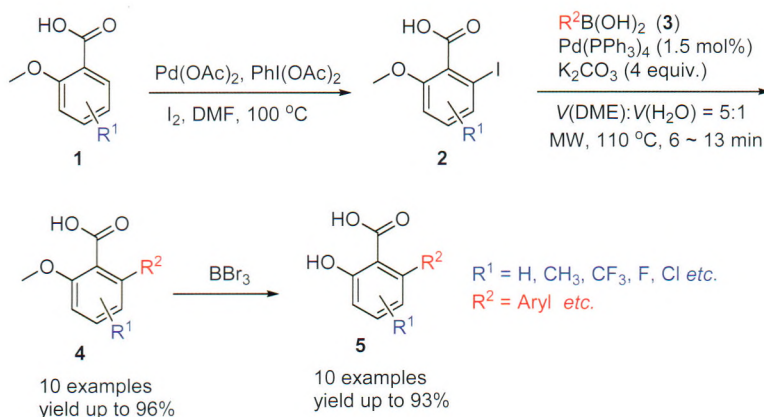
Synthesis of Imidazolium Precursors for the Hydroxyl-Group-Modified N-Heterocyclic Carbenes and Applications of the *in situ* Generated Carbene Ligands in Suzuki-Miyaura and Sonogashira Coupling Reactions



Bai, Yali; Li, Xiaowei; Xiao, Xuedong; Liu, Jiaqi; Yang, Junjuan*; Wang, Junwen*
Chin. J. Org. Chem. **2017**, 37(5), 1258

Four hydroxyl-group-modified N-heterocyclic carbene imidazolium salts were synthesized. There are the excellent pre-catalysts for Suzuki-Miyaura and Sonogashira cross-coupling reactions with $\text{PdCl}_2(\text{CH}_3\text{CN})_2$ as the palladium source.

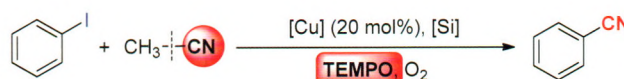
An Efficient Synthesis of Functionalized 6-Arylsubstituted Salicylates via Microwave Irradiation



Qu, Renyu; Chen, Nian; Liu, Yuchao; Chen, Qiong; Yang, Guangfu*
Chin. J. Org. Chem. **2017**, 37(5), 1266

An efficient method for the synthesis of 6-substituted salicylates is described via a microwave-promoted Suzuki cross-coupling.

Cu-Catalyzed Cyanation of Aryl Iodides with Acetonitrile as Cyano Source

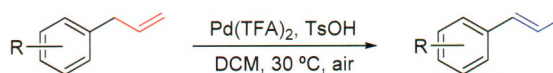


Yu, Zhengwei; Li, Linyi; Shen, Zengming*
Chin. J. Org. Chem. **2017**, 37(5), 1273

A Cu-catalyzed protocol for the cyanation of aryl iodides by using acetonitrile as the "CN" source has been developed, in which the Cu(cat.)/2,2,6,6-tetramethyl-1-piperidinyloxy (TEMPO)/Si system shows good reactivity and generality.

NOTES

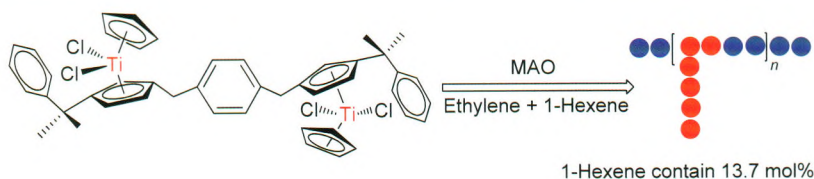
Facile Synthesis of β -Methylstyrenes via Pd/TsOH-Catalyzed Isomerization of Allylbenzenes



Ullah, Aziz; Zhang, Sheng*; Bao, Ming
Chin. J. Org. Chem. **2017**, 37(5), 1278

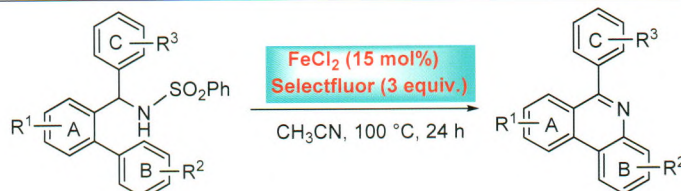
Convenient and efficient protocol for isomerization of allylbenzenes into corresponding β -methylstyrenes has been developed by using $\text{Pd}(\text{TFA})_2$ and $\text{TsOH} \cdot \text{H}_2\text{O}$ as catalysts, dichloromethane as solvent at mild conditions.

Study on the Influence of the Weak Effect of Benzyl Benzene Ring on the Polymerization Behavior of Ethylene



Xu, Sheng*; Liang, Chunchao; Lü, Zhongwen; Zhu, Yuling; Zhang, Cui; Mi, Puke*
Chin. J. Org. Chem. **2017**, 37(5), 1284

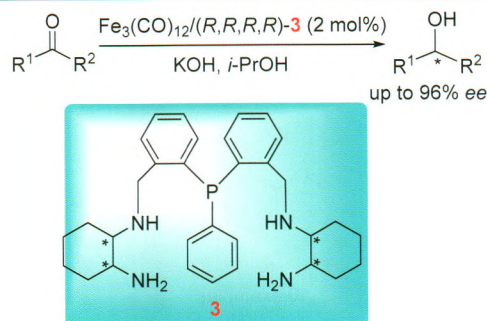
The weak effect of the benzyl benzene ring in binuclear metallocene system was investigated. The possible polymerization mechanism is offered to explain the higher inserting yield of 1-hexene and alternative copolymerization.

Synthesis of 6-Aryl Phenanthridines via Iron-Catalyzed sp^2 -C—H Bond Amination/Aromatization Reaction

With $FeCl_2$ as a catalyst and Selectfluor as an oxidant, an efficient and highly selective synthesis of 6-aryl phenanthridines in one-pot manner has been achieved via an intramolecular sp^2 -C—H bond amination/aromatization of *N*-(biphenyl-2-yl)(aryl)methyl)-benzenesulfonamide derivatives. The optimized reaction conditions were established through systematic investigations of solvents, temperature, catalysts, oxidants and their dosages in the reaction.

Shi, Dongdong; Bao, Hanyang; Xu, Zheng; Liu, Yunkui*
Chin. J. Org. Chem. **2017**, 37(5), 1290

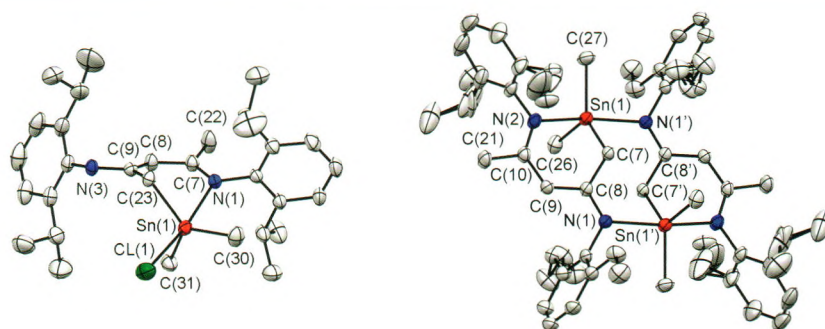
Asymmetric Transfer Hydrogenation of Ketones Catalyzed by Chiral Multidentate Aminophosphine Ligands/Iron Cluster



As one of the most abundant metals on earth, iron is cheap and low toxicity. The iron-catalyzed asymmetric transfer hydrogenation of ketones was investigated. The catalytic system generated *in situ* from chiral multidentate aminophosphine ligand (*R,R,R,R*)- PN_4H_6 and $Fe_3(CO)_{12}$ exhibited highly enantioselectivities for various

ketones, giving the corresponding optical active alcohols with up to 96% ee.

Wu, Fang; Zhang, Wenjing; An, Dongli; Li, Yanyun*; Gao, Jingxing
Chin. J. Org. Chem. **2017**, 37(5), 1295

Synthesis and Characterization of Two β -Diketiminato Tin(IV) Compounds

Two new tin compounds, $[N(Ar)=C(Me)CH=C(NHAr)CH_2SnMe_2Cl \cdot C_7H_8]$ ($Ar=2,6\text{-}i\text{-Pr}_2C_6H_3$) (**1**) and $[N(Ar')C(Me)=CHC(=NAr')CH_2SnMe_2]_2 \cdot CH_2Cl_2$ ($Ar'=2,6\text{-}Et_2C_6H_3$) (**2**), containing N—Sn—C bonds have been synthesized. The latter is a rare dimer with eight-membered ring in β -diketiminato N,C-bonded complexes and its formation mechanism is given by the comparison of these two similar structures.

Ma, Xiaoli*; Deng, Ziyang; Yao, Miaomiao; Zhong, Mingdong; Li, Wenling; Yang, Zhi*
Chin. J. Org. Chem. **2017**, 37(5), 1300

HIGHLIGHTS

Chin. J. Org. Chem. **2017**, 37(5), 1306

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