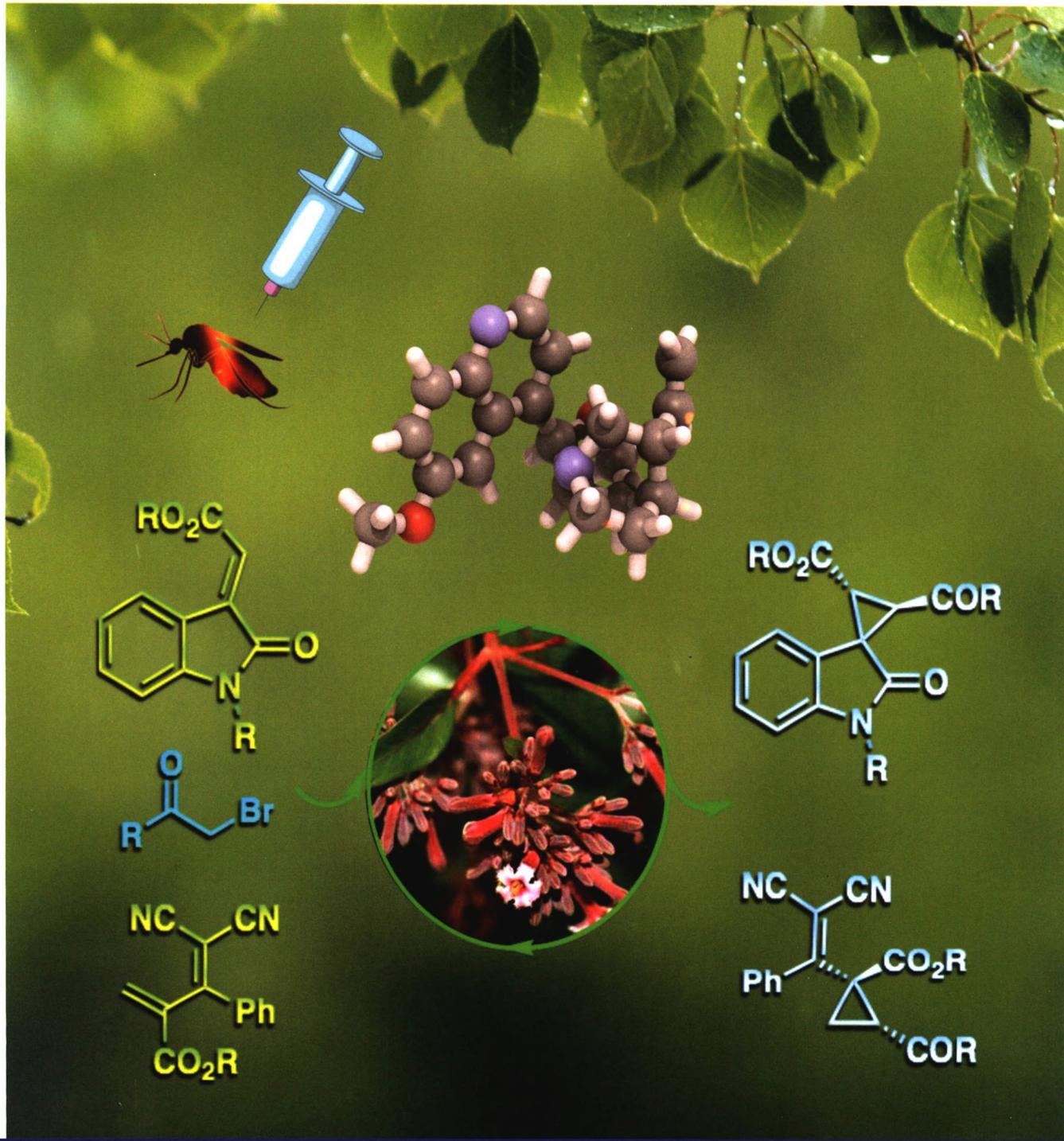


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Chinese Journal of Organic Chemistry

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ISSN 0253-2786



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中国科学院上海有机化学研究所

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(月刊)

Chinese Journal of Organic Chemistry

(YOUJI HUAXUE)

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* 通讯联系人。

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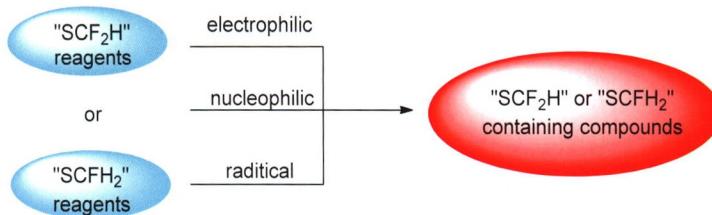
On the Cover

The naturally occurring cinchona alkaloids are well known for their medicinal use. This kind of alkaloids and their derivatives have recently proven to be efficient chiral organocatalysts. On page 40, highly enantioselective syntheses of functionalized 3,3-spiro-cyclopropyl oxindoles and vinylcyclopropanes are reported by Luo, Geng, Cao, and He via ethylated quinidine catalytic cyclopropanations of α -bromoketones.

REVIEWS

Recent Progress on Direct Difluoromethylthiolation and Monofluoromethylthiolation

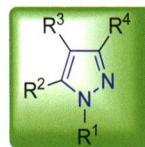
Yan, Qiang; Jiang, Lüqi*; Yi, Wenbin*
Chin. J. Org. Chem. 2020, 40(1), 1



The recent development of direct difluoromethylthiolation and monofluoromethylthiolation reactions is summarized, and the related mechanisms are also discussed.

Recent Progress in Synthesis of Poly-substituted Pyrazoles

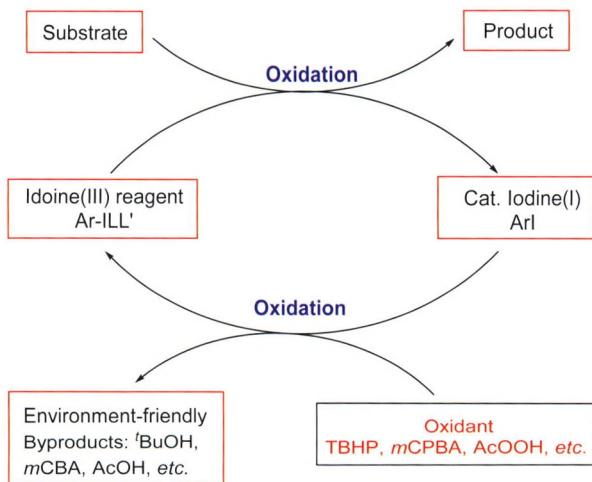
Wang, Shaohua; Zhang, Banghong; Chen, Jie; Zheng, Yingying; Feng, Na; Ma, Aijun*; Xu, Xuetao*; Abdullah, M. Asiri
Chin. J. Org. Chem. 2020, 40(1), 15



The synthesis of polysubstituted pyrazoles has attracted much attention and developed rapidly in recent years. Herein, the recent research progress in the construction of polysubstituted pyrazoles is summarized.

Recent Advances in the Application of *in-situ* Generated Hypervalent Iodine Reagents in Organic Synthesis

Yang, Liu; Xu, Guohe; Ma, Jingjun*; Yang, Qian; Feng, An; Cui, Jinggang
Chin. J. Org. Chem. 2020, 40(1), 28

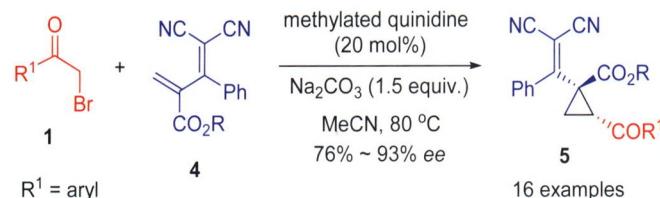
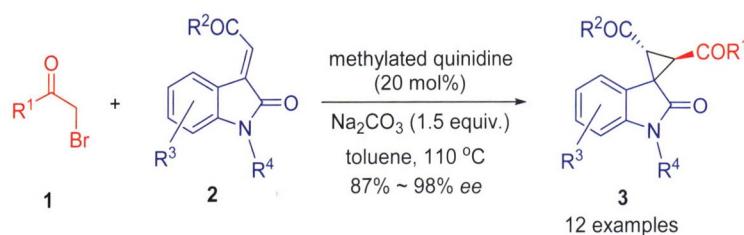


The progress of *in-situ* generated hypervalent iodine reagents is systematically reviewed, including conception and mechanisms. According to the different reaction types, the application of *in-situ* generated hapervalent iodine reagent in organic synthesis reaction is summarized, including trivalent iodine reagent, pentavalent iodine reagent and chiral hypervalent iodine reagent.

CONTENT

ARTICLES

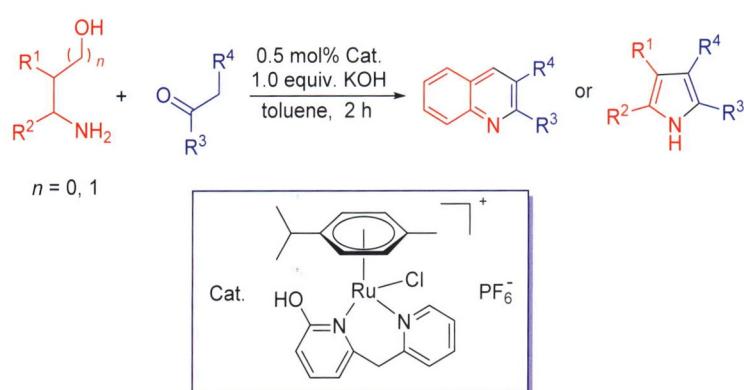
Catalytic Enantioselective Syntheses of Functionalized 3,3-Spirocyclopropyl Oxindoles and Vinylcyclopropanes via Ammonium Ylides Generated from α -Bromoketones



Luo, Jinghua; Geng, Weisheng; Cao, Shixuan; He, Zhengjie*
Chin. J. Org. Chem. **2020**, *40*(1), 40

Two new asymmetric cyclopropanation reactions of α -bromoketones with two kinds of electron-deficient alkenes have been developed by the catalytic ammonium ylide protocol.

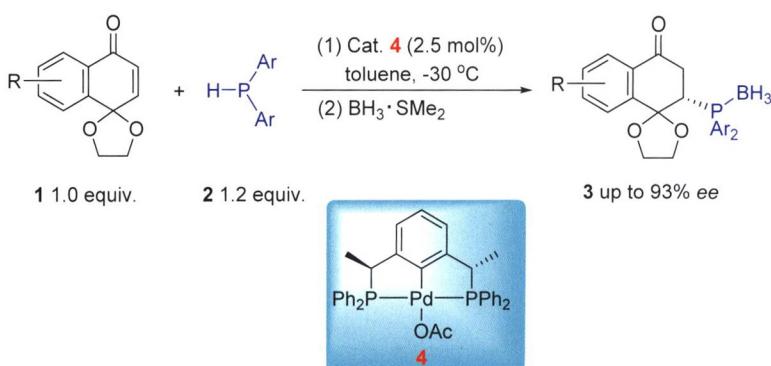
Half-Sandwich Ruthenium(II) Complexes with Bidentate NN Ligands: Active Catalysts for the Synthesis of Quinolines and Pyrroles by Acceptorless Dehydrogenative Cyclization



Hu, Bowen*; Zhang, Yuzhe; Yin, Geping; Chen, Dafa*
Chin. J. Org. Chem. **2020**, *40*(1), 53

Four (η^6 -*p*-cymene)Ru(II) complexes with bidentate NN ligands were synthesized. Complex **3** exhibited high activity for cyclizations of amino alcohols with ketones. With 0.5 mol% catalyst loading in toluene, a series of quinolines and pyrroles were isolated.

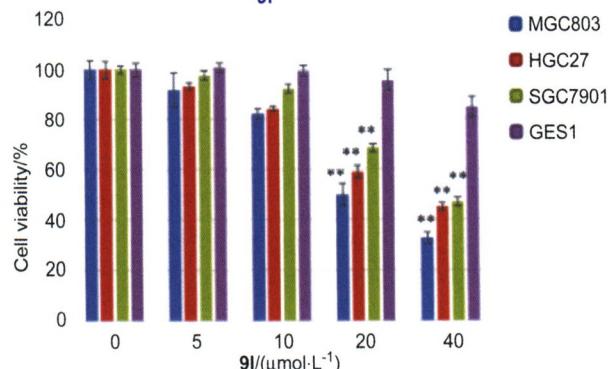
Palladium-Catalyzed Asymmetric 1,4-Addition of Diarylphosphines to Quinone Monoketals



Sun, Guijiu; Xiao, Fanhua*; Duan, Weiliang*
Chin. J. Org. Chem. **2020**, *40*(1), 61

An asymmetric 1,4-addition reaction of diarylphosphines with quinone monoketals was studied. Pincer Pd complex was used as catalyst to generate a series of chiral phosphorus compounds with moderate to good enantioselectivities in high yields.

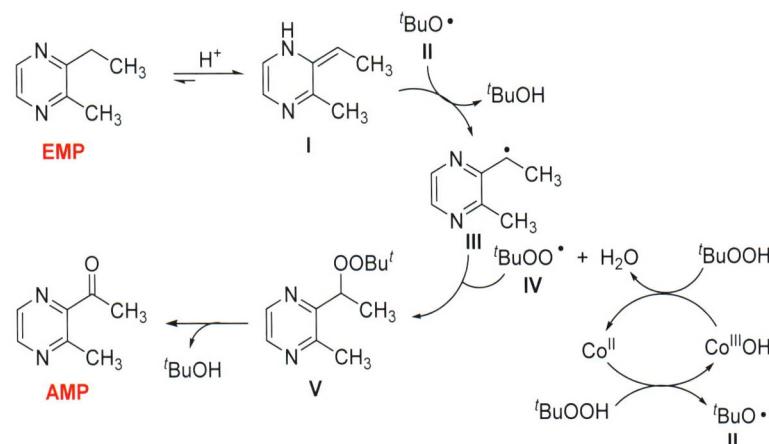
Design and Synthesis of Novel Butenolide Derivatives and Inducing Apoptosis in Gastric Cancer Cells



Xu, Haiwei; Li, Yuanyuan; Dong, Hangqi;
Meng, Xia; Zhao, Lingjie; Lü, Chuntao;
Wang, Zhenya*; Jin, Chengyun*
Chin. J. Org. Chem. **2020**, *40*(1), 69

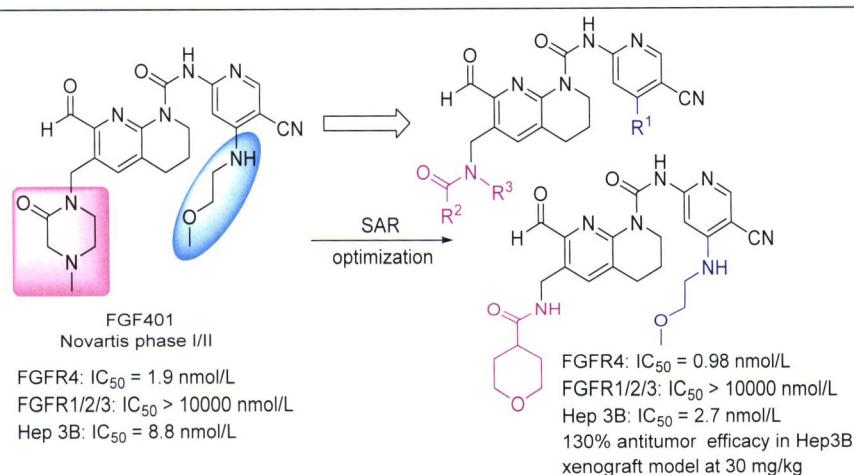
A Green and Scalable Cobalt(II)-Catalyzed Oxidation of 2-Ethyl-3-methylpyrazine

Compound **9I**, an analogue of natural product uncinine, showed anti-proliferation in gastric cancer cell lines with less cytosotoxicity in normal gastric epithelial line (GES 1).



Chen, Jingjing; Wang, Yingshu*; Yu, Jun;
Cheng, Jiajia; Zheng, Huidong*
Chin. J. Org. Chem. **2020**, *40*(1), 78

Discovery of a Novel FGFR4 Selective Inhibitor via Structure-Activity Relationship Studies of FGF401

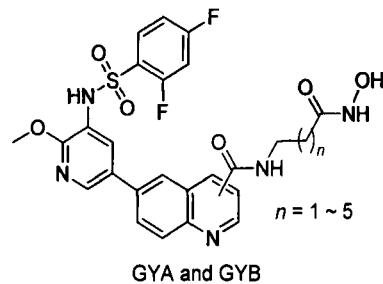


Sun, Chang'an; Fang, Lei*; Gou, Shaohua*
Chin. J. Org. Chem. **2020**, *40*(1), 84

A set of analogues of FGF401 were designed and synthesized, and their FGFR4 inhibition and antitumor activity as well as the structure-activity relationship (SAR) studies were screened.

CONTENT

Design, Synthesis and Biological Evaluation of Novel (Quinolinyl-3-pyridinyl)benzenesulfonamide-Based Hydroxamic Acids as PI3K and HDAC Dual Targeting Inhibitors

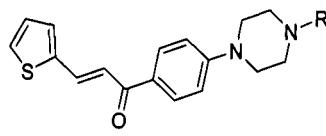


PI3K α IC₅₀ = 0.94 ~ 6.5 nmol·L⁻¹
HDAC1 IC₅₀ = 4.2 ~ 3654 nmol·L⁻¹

Gu, Yiyu; Lü, Xiaoqing; Ma, Xiaodong; Zhang, Haojian; Ji, Yuanyuan; Ding, Wan-jing; Shen, Li*
Chin. J. Org. Chem. 2020, 40(1), 95

This study reports the design, synthesis, and biological evaluation of novel phosphatidylinositol 3-kinases (PI3Ks) and histone deacetylases (HDACs) dual inhibitors on the basis of GSK2126458 under clinical evaluation and vorinostat approved. Biological evaluation and structure-activity relationships study proved that our design is a promising approach to drug discovery.

Synthesis and Antibacterial Activity of Thienyl Chalcone Derivatives Bearing Piperazine Moiety



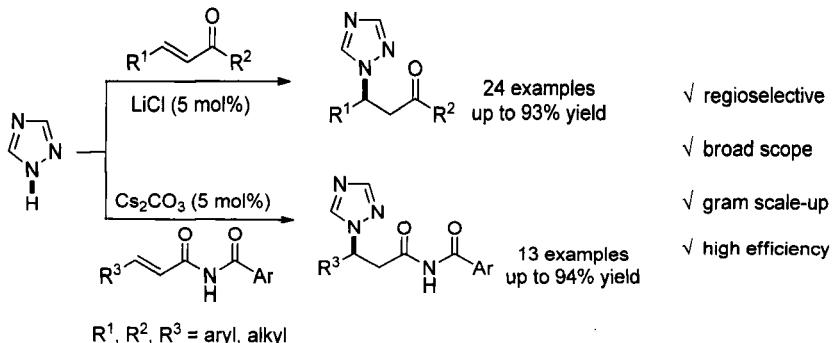
Antibacterial activity

4b and 4e: MIC = 4.0 mg/mL against *Bacillus subtilis*

Li, Yongkun; Tang, Yanling; Li, Minxin; Yang, Xiaobi; Gao, Hui; Mao, Zewei*
Chin. J. Org. Chem. 2020, 40(1), 108

A series of new thienyl chalcone derivatives bearing piperazine moiety have been designed and prepared based on the principle of bioisosteres and molecular hybridization. Their antibacterial activities against *Staphylococcus aureus Rosenbach*, *Escherichia coli* and *Bacillus subtilis* were evaluated.

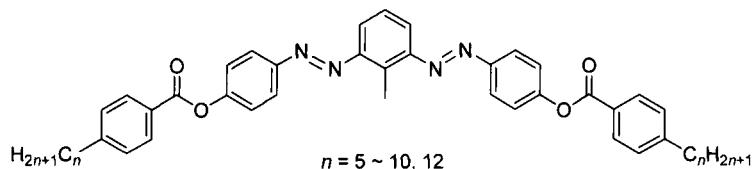
Alkali Salt-Catalyzed Aza-Michael Addition of 1,2,4-Triazole to α,β -Unsaturated Ketones and Imides



Ma, Ben*; Wang, Ganggang; Zhou, Hongyan; Yang, Jingya*
Chin. J. Org. Chem. 2020, 40(1), 115

An alkali salt-catalyzed aza-Michael addition of 1,2,4-triazole to α,β -unsaturated ketones and imides has been disclosed, affording various functionalized triazole derivatives in moderate to excellent yields with high regioselectivity. The cheap catalyst, good substrate tolerance, and easiness to scale up make this procedure more practical.

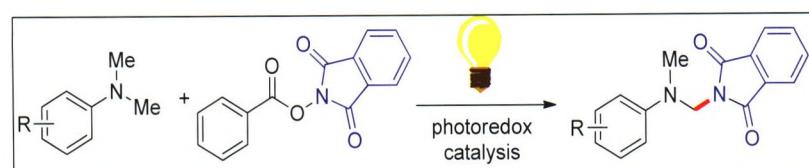
Synthesis and Photo-Induced Isomerization Performance for the Novel Bent Dizobenzene Liquid Crystals



Liu, Manman; Liu, Haohao; Yan, Daoren; Zhang, Zhiyong*; Guan, Jintao
Chin. J. Org. Chem. 2020, 40(1), 125

A series of novel curved bisazo benzene liquid crystal compounds were designed and synthesized using methyl-1,3-*m*-phenylenediamine as the central nucleus. The phase transition temperature and phase texture of the liquid crystals were determined. The photo isomerization performance of 2-methyl-1,3-bis(4-((4-heptylphenyl)ester)-1-(*E*)-azophenyl) benzene (**2c**) was determined. The photo isomerism and response time of the liquid crystal compound and the doped nematic liquid crystal material were measured.

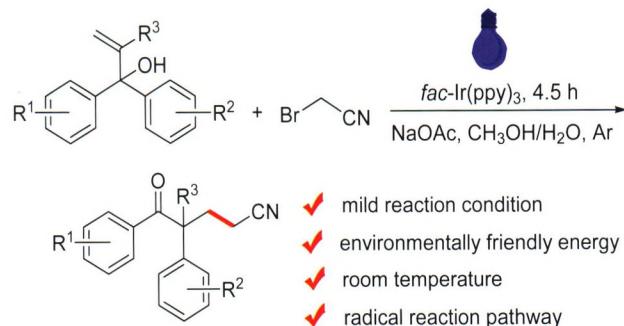
Visible-Light-Induced α -C(sp³)—H Amination Reactions of Tertiary Amines



Visible-light-induced α -C(sp³)—H amination reactions of tertiary amines were reported herein. By using the readily available 1,3-dioxoisooindolin-2-yl benzoate as precursor of N-radical and blue LEDs as green and sustainable energy source, various *N,N*-dimethylaniline derivatives were *ortho*-minated directly through radical coupling pathway. The method featured in mild reaction conditions and good functional group tolerance, which provides a simple and practical protocol to the modification of tertiary amines.

Zhao, Yating*; Zeng, Junjie; Xia, Wujiong*
Chin. J. Org. Chem. **2020**, *40*(1), 133

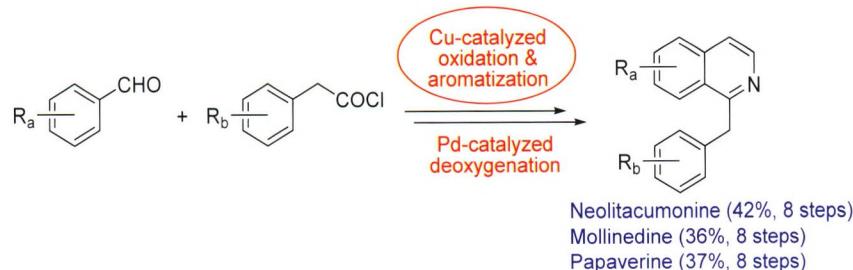
Visible-Light Induced Cyanomethylation of Diaryl Allyl Alcohols to Synthesize δ -Ketonitriles



A photocatalyzed method for the synthesis of δ -ketonitriles from the reaction of diaryl allyl alcohols and bromoacetonitrile is developed. The result of control experiments indicates that the reaction might proceed via a free radical mechanism and bromoacetonitrile was the source of cyanomethyl radical.

Du, Linlin; Li, Tiesheng*
Chin. J. Org. Chem. **2020**, *40*(1), 140

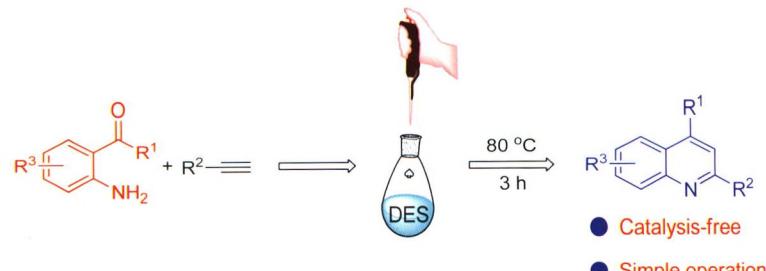
Total Syntheses of Benzylisoquinoline Alkaloids Neolitacumoine, Mollinedine and Papaverine



A new general synthetic route towards benzylisoquinoline alkaloids was developed. The key step is Cu-catalyzed cascade oxidation-aromatization of 1-benzyl-3,4-dihydroisoquinolines. The three benzylisoquinoline alkaloids such as neolitacumoine, mollinedine and papaverine were synthesized starting from piperaldehyde or 3,4-dimethoxybenzaldehyde by 8 steps in 42%, 37% and 37% overall yields, respectively.

Sun, Mianmian; Li, Fenglei; He, Yungang; Zhu, Xingliang; Liu, Shiling*; Shi, Xiaoxin*
Chin. J. Org. Chem. **2020**, *40*(1), 149

Synthesis 2,4-Disubstituted Quinolines in Deep Eutectic Solvents

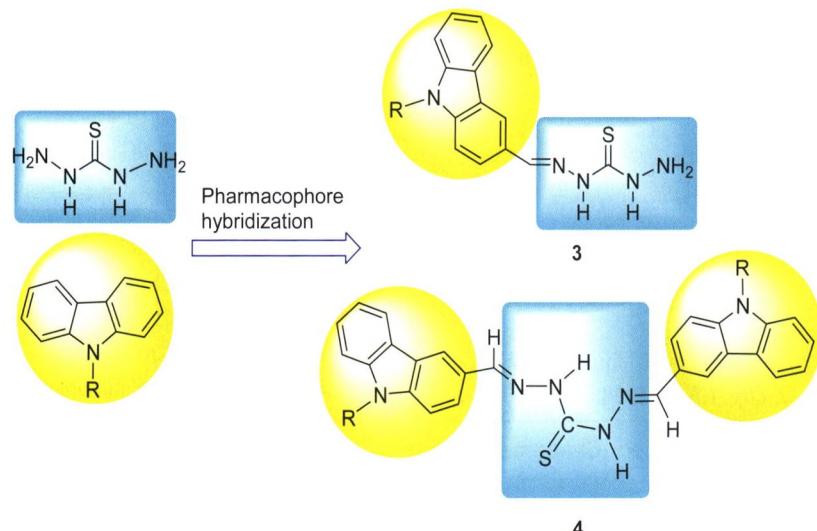


A new and general method to access valued quinolines by the reaction of 2-amino-acetophenone with aromatic alkyne in deep eutectic solvent was developed. The method does not need additional catalyst, and has the advantages of mild reaction conditions, simple operation and a wide range of substrates.

Chen, Guoqing; Xie, Zongbo*; Liu, Yishuai; Meng, Jia; Le, Zhanggao*
Chin. J. Org. Chem. **2020**, *40*(1), 156

CONTENT

Synthesis and Cdc25B/PTP1B Inhibitory Activity Evaluation of Novel Carbazole-Based Mono-/Bis-thiocarbohydrazone Derivatives

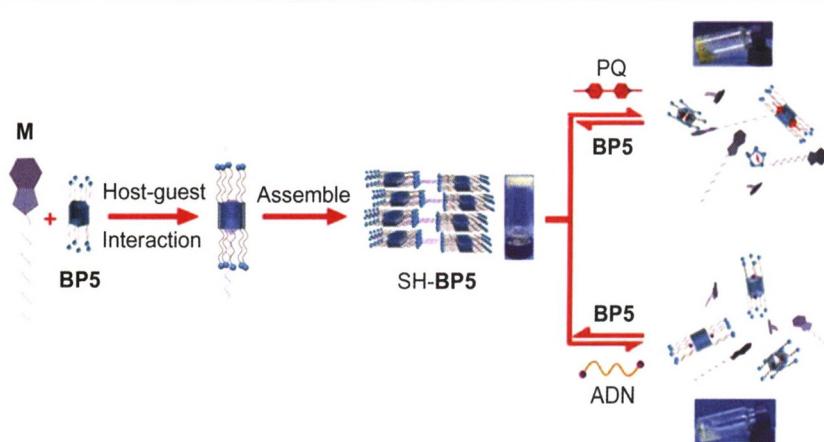


Li, Yingjun*; Yang, Kaidong; Jin, Kun; Gao, Lixin; Sheng, Li; Liu, Xuejie; Yang, Hongjing; Lin, Ledi; Li, Jia*

Chin. J. Org. Chem. **2020**, *40*(1), 162

A series of novel carbazole-based mono-/bis-thiocarbohydrazone derivatives were synthesized. The inhibitory activities of the target compounds against Cdc25B/PTP1B were evaluated. The results showed that most of the target compounds had good inhibitory activity against Cdc25B and PTP1B.

Molecule-Responsive Supramolecular Hydrogel Constructed from Pillar[5]arene Based on Host-Guest System



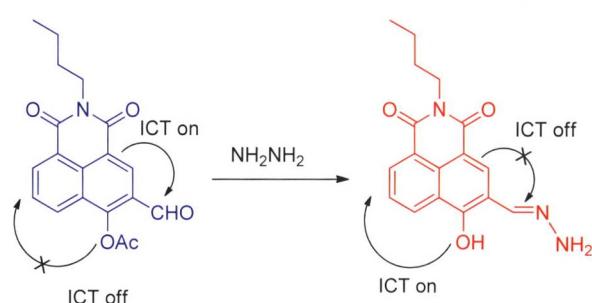
Wang, Jiao; Yao, Hong*; Zhou, Qi; Kan, Xiaotong; Fan, Yanqing; Guan, Xiaowen; Zhang, Youming; Lin, Qi; Wei, Taibao*

Chin. J. Org. Chem. **2020**, *40*(1), 175

Supramolecular material constructed from host molecule pillar[5]arene (**BP5**) and guest **M** could self-assemble into supramolecular hydrogel (**SH-BP5**) by host-guest interaction in pure water. Importantly, with the addition of competitive guest molecules adiponitrile (ADN)/paraquat (PQ), pillar[5]arene-based hydrogel could be converted into sol due to the competitive interaction. More interestingly, with continuous addition of enough **BP5** to the disassembled sol, the hydrogel recovered again. Herein, the supramolecular hydrogel based on pillar[5]arene could recognize organic molecules.

NOTES

A Fluorescent Probe for Hydrazine Based on Synergistic Effect and Its Utilization in Cell Imaging

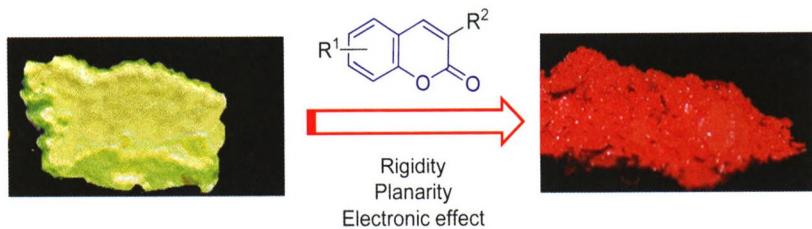


Xu, Wenzhi*; Li, Xue; Han, Mengnan; Zhou, Tingting; Yang, Yutao; Li, Wei*

Chin. J. Org. Chem. **2020**, *40*(1), 181

A new type of probe based on the synergistic effect was developed. Two recognition sites were introduced into the probe to improve performance to hydrazine. Moreover, the probe could detect N_2H_4 in BT-474 cells.

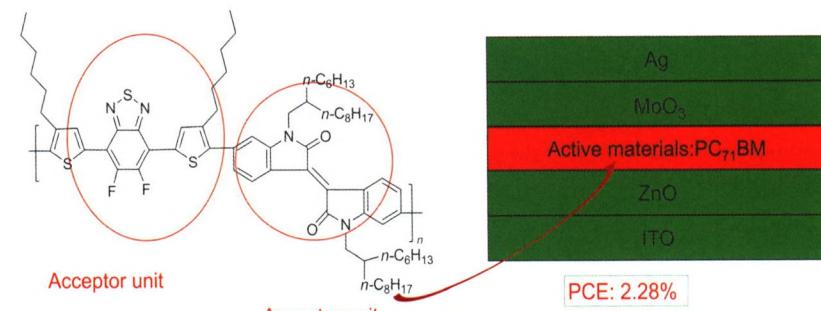
Design and Study of Coumarin-Imidazol Dyes



Hou, Jiting*; Wang, Bingya; Li, Kun; Wang, Shan*; Yu, Xiaoqi*

Chin. J. Org. Chem. **2020**, *40*(1), 186

Synthesis and Photovoltaic Property of Acceptor-Acceptor Conjugated Polymers Based on 4,7-Dithiophene Benzothiadiazole and Isoindigo Units



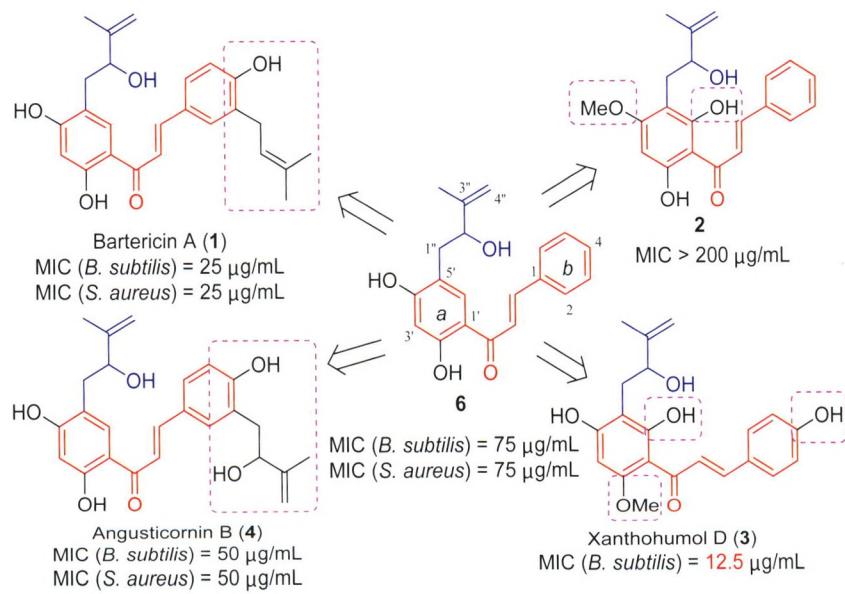
Acceptor-Acceptor polymer **HFTBT-DA865**

An acceptor-acceptor polymer **HFTBT-DA865** has been designed and synthesized. By optimizing spin coating speed and temperature, the maximum photoelectric conversion efficiency of the polymer solar cell based on **HFTBT-DA865** is 2.28%, the open circuit voltage is 0.83 V, the short circuit current is -5.70 mA/cm^2 , and the filling factor is 48.9%. This study about the photovoltaic properties based on the acceptor-acceptor polymer **HFTBT-DA865** implied that this type polymer is a potential photovoltaic material.

Du, Junping*; Qin, Pengju; Xu, Liancai; Feng, Shanshan; Xu, Yunxiang; Huang, Jiang*

Chin. J. Org. Chem. **2020**, *40*(1), 194

Synthesis and Antibacterial Activity Study of Natural 5'-Hydroxyisoprenyl Chalcones



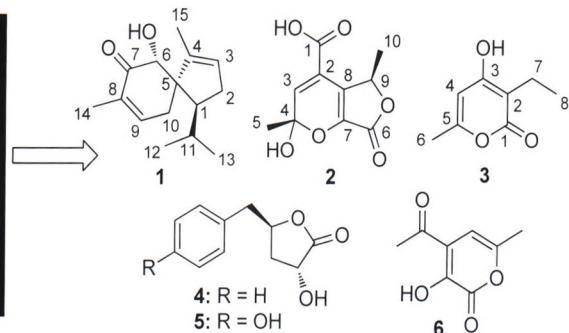
Fu, Lin; Sun, Bingxia; Zhai, Jiadai; Li, Yuanyuan; Liu, Xinqiang; Song, Ru; Shi, Guanqun; Li, Jiaona; Song, Yuanxia; Sang, Feng*

Chin. J. Org. Chem. **2020**, *40*(1), 201

Four natural chalcones with 5'-hydroxyisoprenyl group were first synthesized. These four natural products and their derivative were evaluated for their antibacterial activities against *Bacillus subtilis* [CMCC(B)63 501], *Staphylococcus aureus* [CMCC(B)260003], *Escherichia coli* [CMCC(B)44102] and *Pseudomonas aeruginosa* [CMCC(B)10104]. Compound **3** showed significant activity towards *Bacillus subtilis* selectively.

CONTENT

Two New Polyketide Compounds from the Endophytic Fungus *Trichoderma spirale* A725 of *Morinda officinalis*

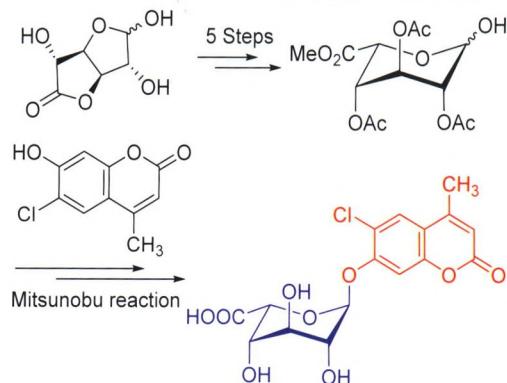


Trichoderma spirale A725

Chen, Shushuai; Liu, Hongxin; Liu, Zhao-ming; Li, Saini; Chen, Yuchan; Li, Haohua; Li, Dongli*; Zhang, Weimin*

Chin. J. Org. Chem. **2020**, *40*(1), 209

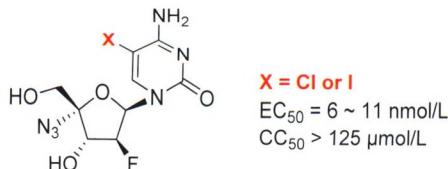
Synthesis of Enzyme Substrate 6-Chloro-4-methylumbelliferyl- α -L-idopyranosiduronic Acid



Tian, Jiameng; Ning, Qianqian; Ding, Hai-xin*; Bai, Jiang; Xiao, Qiang*

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Synthesis and Anti-HBV Evaluation of 5-Halogenated 2'-Deoxy-2'- β -fluoro-4'-azido Pyrimidine Nucleosides

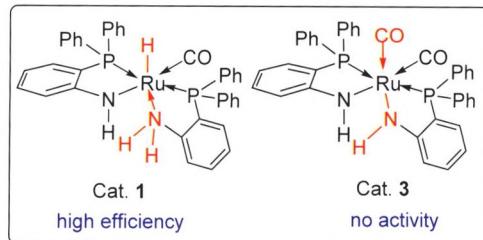
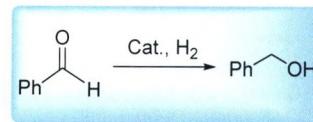


Guo, Meichao; Kang, Jinfeng; Hou, Jiao; Zhang, Qianqian; Yu, Wenquan*; Chang, Junbiao*

Chin. J. Org. Chem. **2020**, *40*(1), 221

Synthesis and Catalytic Property of New Aminophosphino Ruthenium Carbonyl Complexes

A series of 5-halogenated 2'-deoxy-2'- β -fluoro-4'-azido pyrimidine nucleosides were synthesized, with the 5-chloro and 5-iodo derivatives possessing potent anti-HBV (hepatitis B virus) activity and low cytotoxicity.

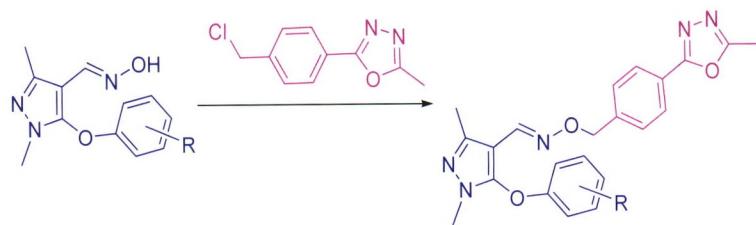


Fang, Xiaolong; Zhang, Min; Duan, Ning; Wang, Xin*; Zhu, Hongping*

Chin. J. Org. Chem. **2020**, *40*(1), 226

Three new carbonyl ruthenium complexes were successfully synthesized from Ru₃(CO)₁₂ and *o*-PPh₂C₆H₄NR₂ (R=H, Me) ligand. The activity test of hydrogenation of benzaldehyde into benzyl alcohol revealed that metal hydride of Ru—NH catalyst is indispensable.

Synthesis and Insecticidal Activities of Novel Pyrazole Oxime Ethers Carrying 1,3,4-Oxadiazole Unit

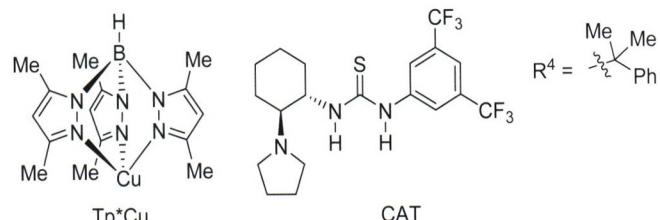
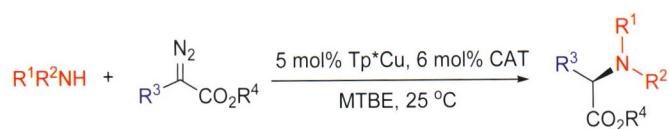


Wang, Yang; Ye, Hao; Qian, Cheng; Yao, Wei; Li, Hong; Wang, Kai; Hu, Lanping*; Li, Ling; Wu, Jinming; Dai, Hong*
Chin. J. Org. Chem. **2020**, *40*(1), 232

In search of novel pyrazole oxime ether derivatives with potent bioactivities, fifteen new pyrazole oxime ethers were designed and synthesized by introducing 1,3,4-oxadiazole moiety into the C-4 position of pyrazole based on the structure of fenpyroximate. Their biological activities were tested.

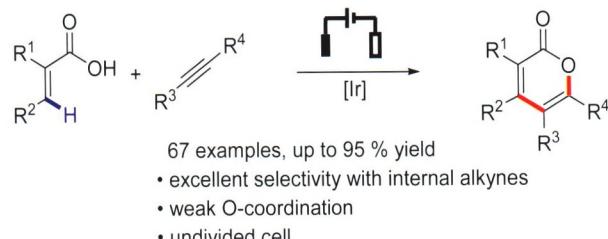
HIGHLIGHTS

Cooperative Catalysis with Transition Metal and Organic Molecule: Highly Enantioselective Carbene Insertion into N—H Bond of Aliphatic Amines



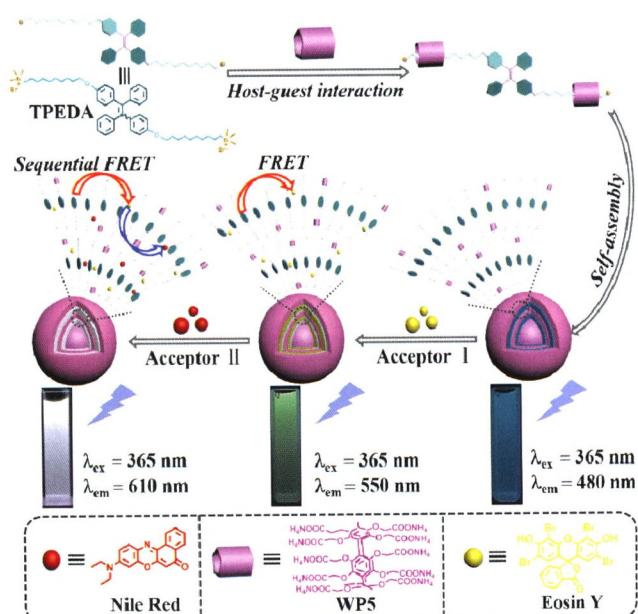
Huo, Jingfeng; Wang, Jianbo*
Chin. J. Org. Chem. **2020**, *40*(1), 239

Electrochemistry-Enabled Ir-Catalyzed Vinylic C—H Functionalization for the Synthesis of α -Pyrones



Ye, Zenghui; Zhang, Fengzhi*
Chin. J. Org. Chem. **2020**, *40*(1), 241

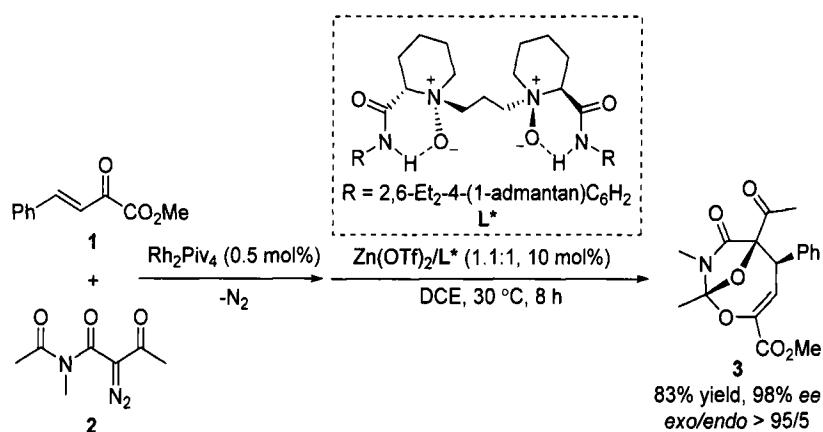
Fabrication of Supramolecular Artificial Light-Harvesting System with Sequential Energy Transfer for Photochemical Catalysis



Pangannaya, Srikala; Jiang, Juli; Wang, Ruibing*
Chin. J. Org. Chem. **2020**, *40*(1), 243

CONTENT

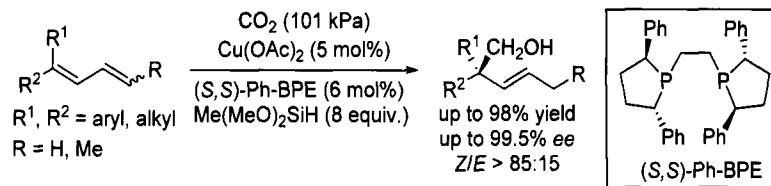
Rh^{II}/Zn^{II} Catalyzed Asymmetric [4 + 3] Cycloaddition Reaction



Song, Jin; Gong, Liu Zhu*

Chin. J. Org. Chem. 2020, 40(1), 245

Catalytic Asymmetric Construction of All-Carbon Quaternary Stereocenters via Coupling of CO₂ with 1,3-Dienes

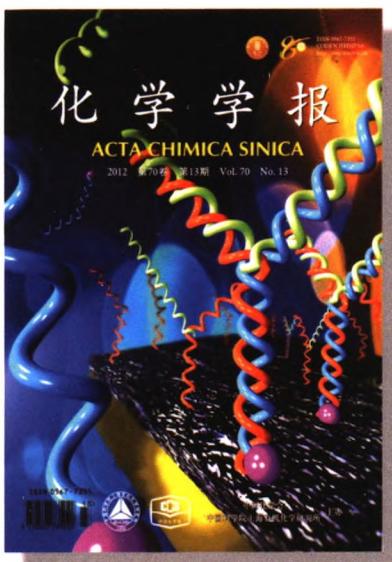


Cheng, Lei; Xie, Jianhua*

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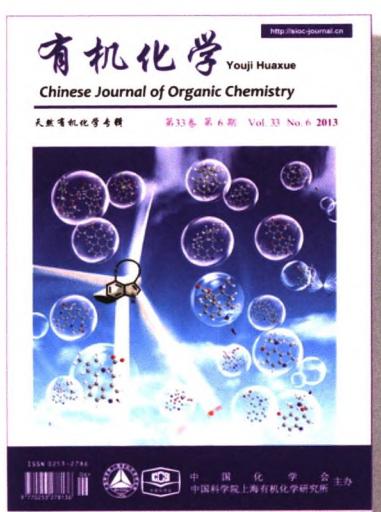
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