

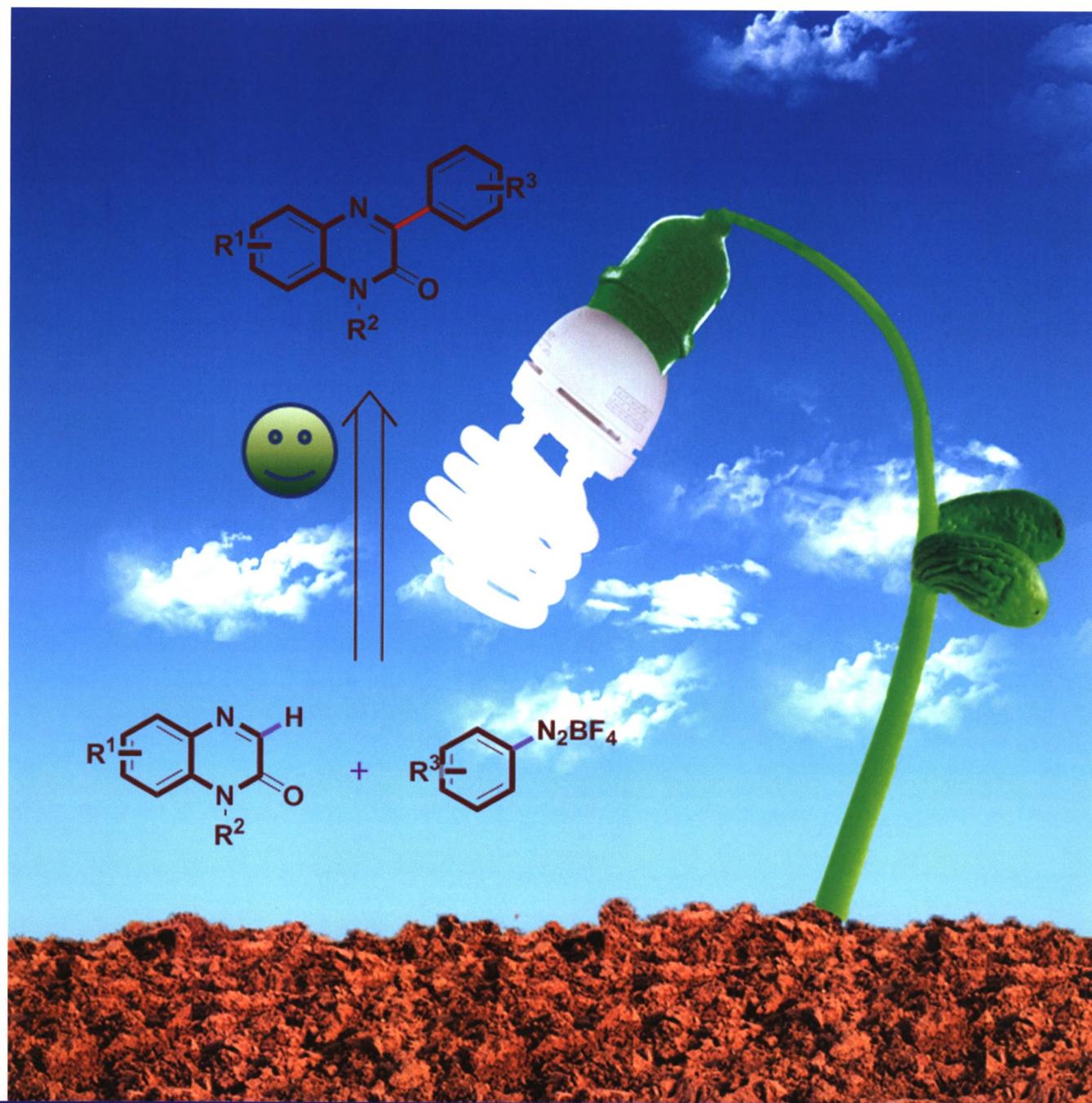


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(YOUJI HUAXUE)

第 38 卷 第 12 期 (总 361 期) 2018 年 12 月*

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* 通讯联系人。

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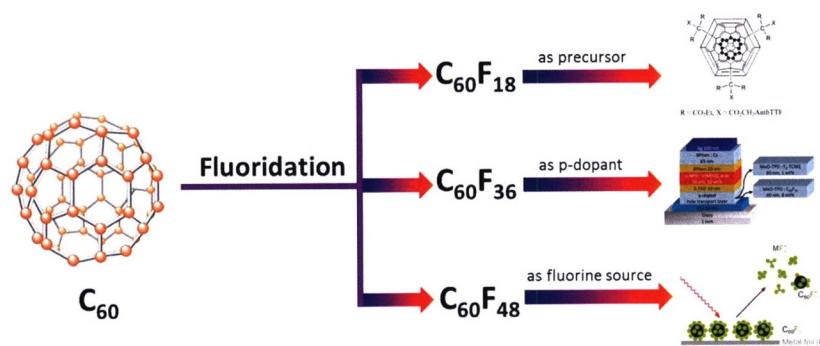
2018 年第 38 卷作者、题目索引	(3396)
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On the Cover

Visible-light-induced method for the synthesis of 3-arylquinoxalin-2(1*H*)-ones is reported by Wang, Bao, Liu, Liu, Hu, Yue, Yang, and Wei on page 3189. 3-Arylquinoxalin-2(1*H*)-one scaffold is of great importance as a pharmacophore existing in various pharmaceutical molecules. The present protocol provides a cost-effective and environmentally-benign approach to 3-arylquinoxalin-2(1*H*)-ones via direct C—H 3-arylation of quinoxalin-2(*H*)-ones with aryl diazonium salts under visible-light photoredox catalysis.

REVIEWS

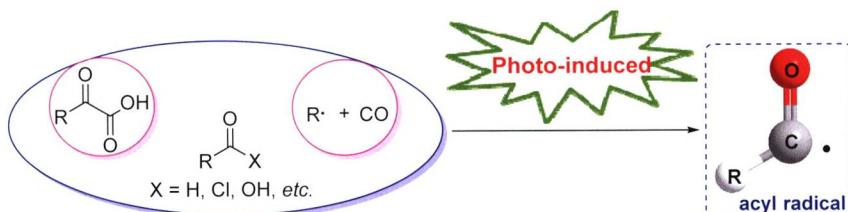
Progress in the Structures, Characteristics and Applications of Fluorofullerenes



The progress in the structures and electronic properties of fluofullerenes is introduced. Their applications are summarized in the field of precursors of functional fullerene derivatives, surface doping of diamond, dilicon, and graphene, and bulk *p*-doping of organic semiconductors in electronic devices. Furthermore, this review gives the outlook for research trend and prospect of fluofullerenes materials.

Wang, Yufei; Zheng, Liping; Li, Jingjing; Liu, Chao; Yao, Jianhua*
Chin. J. Org. Chem. 2018, 38(12), 3143

Recent Advances on the Photo-Induced Reactions of Acyl Radical

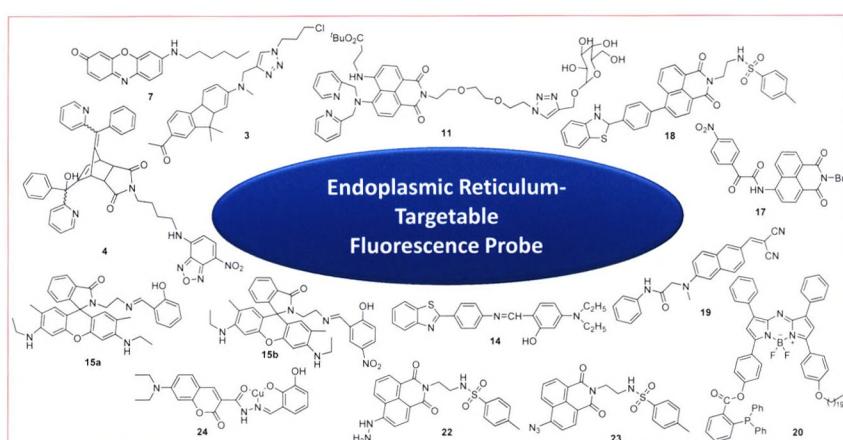


With the development of photochemistry, the photo-induced radical acylation reactions have attracted dramatic interest for chemical researchers. In addition, the acyl radical can generate from α -keto acids, aldehydes, anhydrides, acyl chlorides and so on via light mediated under mild conditions. The recent advances on the photo-induced radical acylation are introduced.

Ruan, Liheng; Chen, Chunxin; Zhang, Xiaoxin; Sun, Jing*
Chin. J. Org. Chem. 2018, 38(12), 3155

CONTENT

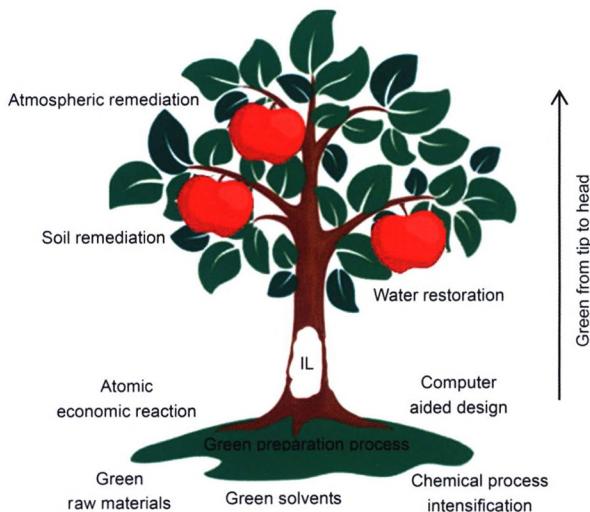
Recent Progress on Endoplasmic Reticulum-Targetable Fluorescence Probe



Lü, Hui; Xu, Xuetao*; Huang, Danying; Wu, Panpan; Sheng, Zhaojun; Liu, Wenfeng; Li, Dongli; Alharbi, Njud S.; Zhang, Kun*; Wang, Shaohua*
Chin. J. Org. Chem. **2018**, 38(12), 3165

This article summarizes and describes the design and synthesis of the reported endoplasmic reticulum-targetable fluorescent probes, analyzes the application of endoplasmic reticulum fluorescent probes in the study of cellular physiological processes, and prospects the development trend of endoplasmic reticulum-targetable fluorescent probes.

Progress of Ionic Liquids Green Preparation and Application Research in Environmental Remediation



Liu, Baoyou*; Zhang, Peiwen
Chin. J. Org. Chem. **2018**, 38(12), 3176

The green preparation of ionic liquids and its application in environmental remediation are reviewed. The characteristics and application scope of green preparation of ionic liquids are analyzed, and the methods and mechanisms of ionic liquids in environmental remediation are pointed out.

ARTICLES

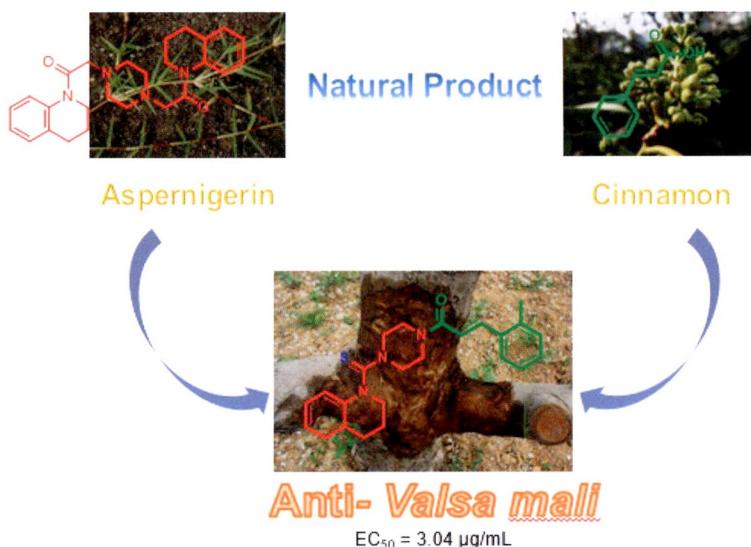
Direct C—H 3-Arylation of Quinoxalin-2(H)-ones with Aryl Diazonium Salts under Visible-Light Irradiation



Wang, Leilei; Bao, Pengli; Liu, Weiwei; Liu, Sitong; Hu, Changsong; Yue, Huilan; Yang, Daoshan; Wei, Wei*
Chin. J. Org. Chem. **2018**, 38(12), 3189

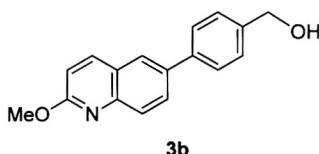
Visible-light-induced method for the synthesis of 3-arylquinoxalin-2(1H)-ones has been developed via Eosin Y-catalyzed C—H 3-arylation of quinoxalin-2(H)-ones with aryl diazonium salts at room temperature in air.

Synthesis and Anti-fungal Activity of
Novel Aspernigerin Derivatives Contain-
ing Thiocarbonyl Moiety



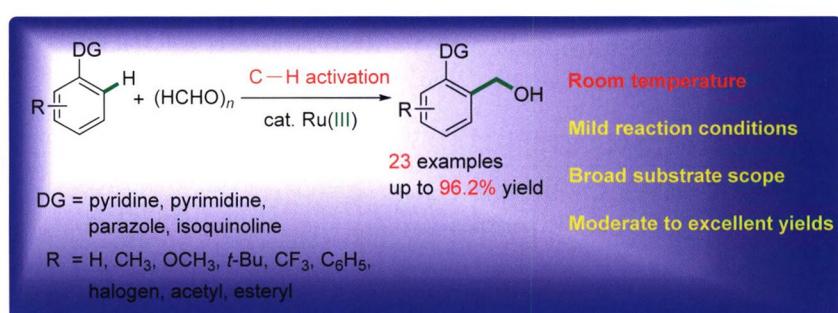
Zhang, Xiaoming; Lei, Peng; Li, Xinlu;
Yang, Xinling; Zhang, Xuebo; Sun, Tengda;
Ling, Yun*
Chin. J. Org. Chem. **2018**, 38(12), 3197

Antitumor and DNA Topoisomerase II α
Inhibitory Activity of 6-Substituted-aryl-2-
methoxyquinolines



Li, Zhiying; Ding, Yanjiao; Bu, Huagang;
Shen, Yuemao*
Chin. J. Org. Chem. **2018**, 38(12), 3204

Room Temperature Ru(III)-Catalyzed
ortho-Hydroxymethylation of Arenes

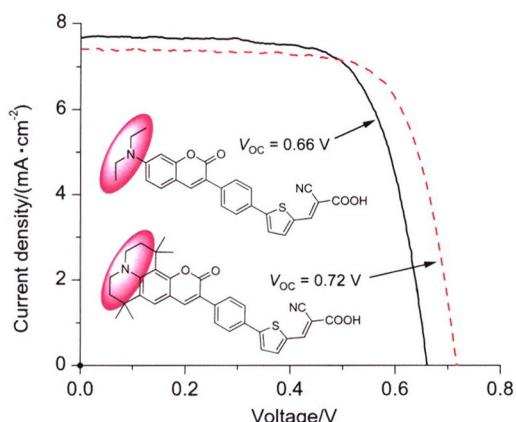


Zhang, Yong; Yang, Zhongzhen; Yu, Xinling;
Cheng, Xu; Li, Weijian; Guo, Lingmei; Hai,
Li; Guo, Li*; Wu, Yong*
Chin. J. Org. Chem. **2018**, 38(12), 3211

Direct synthesis of the hydroxymethylated arene derivatives via ruthenium(III)-catalyzed and nitrogen atom directed C—H activation is described. The reaction proceeds smoothly at room temperature and generates the corresponding products in moderate to excellent yields.

CONTENT

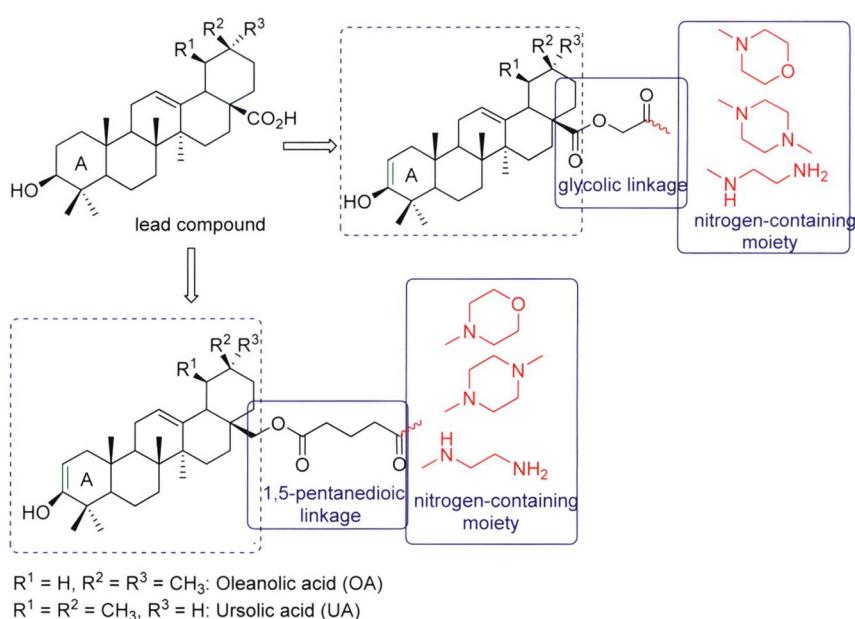
Syntheses and Photovoltaic Performance of Nitrogen-Containing Rigid Heterocycle Substituted Coumarin Sensitizing Dyes



Jiang, Shaoliang; Liu, Jie; Cui, Yanhong;
Wu, Huabiao; Han, Liang*
Chin. J. Org. Chem. **2018**, *38*(12), 3219

Synthesis, Characterization and Cytotoxic Activity of Novel Oleanolic Acid and Ursolic Acid Derivatives

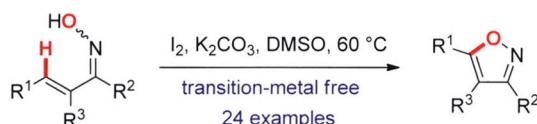
Two novel nitrogen-containing rigid heterocycle substituted coumarin sensitizing dyes were synthesized. V_{OC} of coumarin sensitizing dye has been improved to 0.72 V with nitrogen-containing rigid heterocycle substituted coumarin as the electron donor and phenylthiophene as π bridge.



Liu, Xinyu; Gao, Xueqin; Jin, Xuejun; Zhao, Chunhui; Feng, Zhonghua; Sui, Yue; Zhao, Longxuan*; Yan, Xin*
Chin. J. Org. Chem. **2018**, *38*(12), 3227

Twenty oleanolic acid and ursolic acid derivatives were prepared by a modification at C-28 position via introduction with 1,5-pentanedioic acid and glycolic acid followed by amidation with amines. Their *in vitro* anticancer activities towards A549, MCF-7 and HepG2 cell lines were evaluated by methyl thiazolyl tetrazolium (MTT) method.

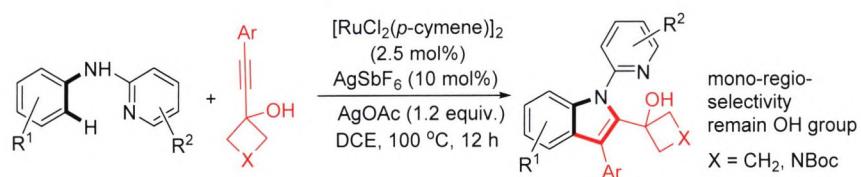
I₂-Mediated Oxidative C—O Bond Formation for the Synthesis of Isoxazoles



Hou, Jiao; Zhang, Xinting; Yu, Wenquan*;
Chang, Junbiao*
Chin. J. Org. Chem. **2018**, *38*(12), 3236

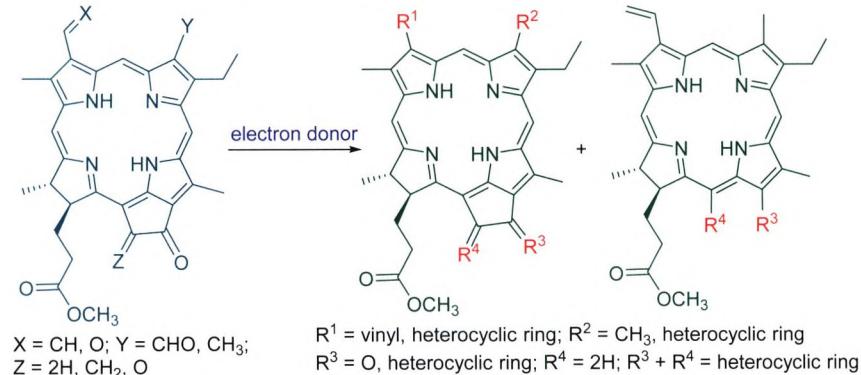
A variety of mono-, di-, and tri-substituted (aryl, alkyl, and/or alkenyl) isoxazoles were synthesized from readily accessible α,β -unsaturated oximes via I_2 -mediated oxidative C—O bond formation. The features of this reaction include no use of transition metals, simple operation, mild reaction conditions, short reaction time, and broad substrate scope.

Ruthenium(II)-Catalyzed C—H Bond Regioselective [3+2] Annulation of Arylamines with Propargyl Alcohols



Bai, Lili; Wang, Ying; Wang, Shujin; Kong, Dulin; Fu, Yan; Peng, Deqian*; Wen, Lijun; Chen, Xun*
Chin. J. Org. Chem. 2018, 38(12), 3242

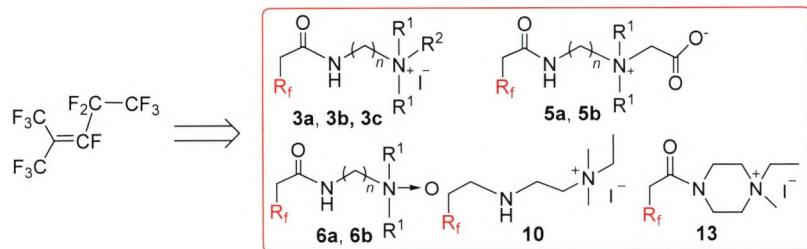
Heterocyclization for the Structures on the Periphery of Pyropheophorbide and Synthesis of Chlorophyll Derivatives



Zhang, Zhu; Li, Jiazhui; Zhang, Shanguo; Wang, Zhen; Wang, Jinjun*
Chin. J. Org. Chem. 2018, 38(12), 3250

Pyropheophorbide-a methyl ester was used as a starting material, and the chemical modifications and structural transformations along the terminals of N²¹–N²³ axis were carried out to build active electron-accepting functional structures. The cyclizations with different electron-sufficient systems were accomplished to synthesize a series of unreported chlorins related to chlorophyll with multiple heterocyclic structures.

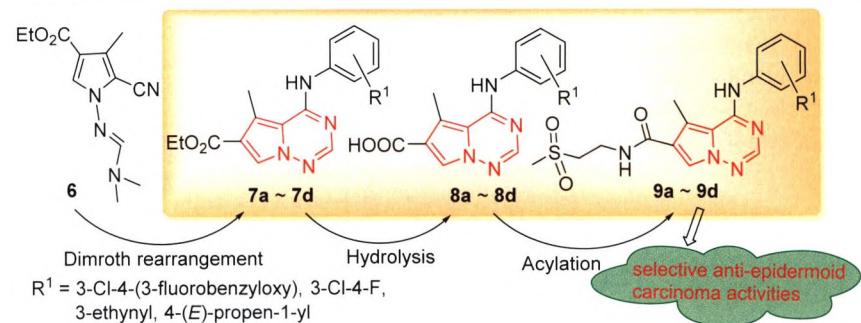
Study on the Synthesis and Properties of Novel Branched Fluorinated Surfactants



Lin, Chao; Pan, Renming; Xing, Ping*; Jiang, Biao*
Chin. J. Org. Chem. 2018, 38(12), 3260

Several novel branched fluorinated surfactants are synthesized using perfluoro-2-methyl-2-pentene as starting material. The effects of the structures on the surface properties are mainly discussed, and the combined properties of one outstanding fluorinated surfactant mixed with APG are discussed too.

Synthesis and Antiproliferative Activities of Novel Pyrrolotriazine Derivatives

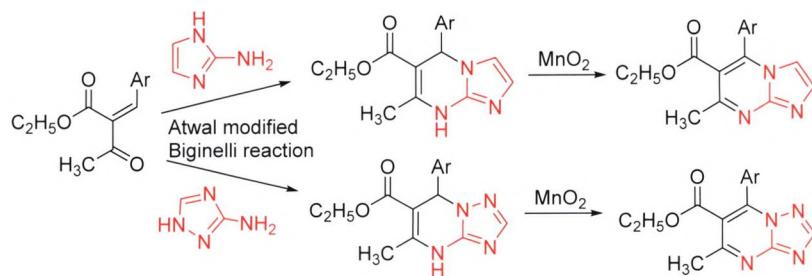


Zhang, Yaling; Ma, Shasha; Li, Xiabing*; Hou, Qiaoli; Lü, Mengjiao; Hao, Yunxia; Wang, Wei; Li, Baolin*
Chin. J. Org. Chem. 2018, 38(12), 3270

A series of novel pyrrolotriazine derivatives with different substituents at 4,6-positions were designed, synthesized through multi-step reactions. Their antiproliferative activities against human tumor cell lines were investigated.

CONTENT

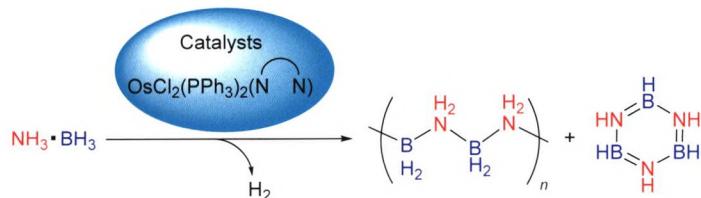
Synthesis and Biological Activity of Aza-clozodihydropyrimidine and Pyrimidine Derivatives



Zhang, Pingzhu; Wang, Xiaofen; Zheng, Xueyang; Lian, Pingping; Wei, Chao; Li, Xiaoliu*

Chin. J. Org. Chem. **2018**, 38(12), 3278

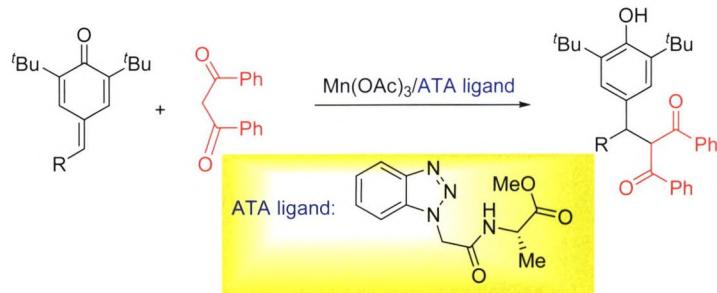
Synthesis of Osmium Complexes with Bidentate Nitrogen-Based Ligands and Their Application in Catalytic Dehydrogenation of Ammonia Borane



Zhao, Qianyi*; Liang, Yuan; Xu, Ting; Dou, Ting; Zhang, Jie; Chen, Xuenian*

Chin. J. Org. Chem. **2018**, 38(12), 3286

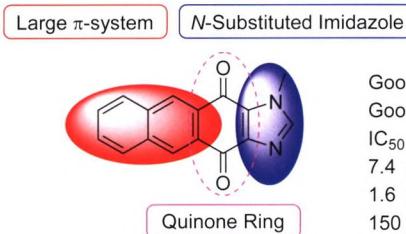
Alanine Triazole Mn-Catalyzed Coupling/Aromatization of Quinone Methides



Hu, Xinyu; Yang, Bobin; Yao, Wei; Wang, Dawei*

Chin. J. Org. Chem. **2018**, 38(12), 3296

Design, Synthesis and Antitumor Activity of 1-Monosubstituted 1*H*-Naphtho[2,3-*d*]imidazole-4,9-diones and 1*H*-Anthra[2,3-*d*]imidazole-4,11-diones



Liu, Zhanxiong; Yuan, Jing; Zhang, Zhenfeng*; Yan, Deyue; Zhang, Wanbin*

Chin. J. Org. Chem. **2018**, 38(12), 3302

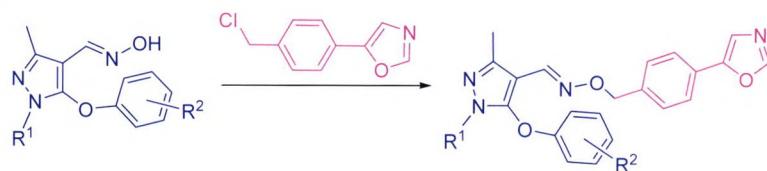
A number of 1-monosubstituted 1*H*-naphtho[2,3-*d*]imidazole-4,9-diones and 1*H*-anthra[2,3-*d*]imidazole-4,11-diones were designed, synthesized, and evaluated as anticancer agents.

NOTES

Synthesis and Insecticidal Activities of Novel Pyrazole Oxime Ethers Containing an Oxazole Moiety

Zhou, Qian; Zheng, Dandan; Shi, Yujun; Yao, Wei; Qian, Hongwei; Ding, Ying; Wei, Zhonghao; Shen, Aibao*; Feng, Xia; Shi, Jian; Dai, Hong*

Chin. J. Org. Chem. 2018, 38(12), 3318

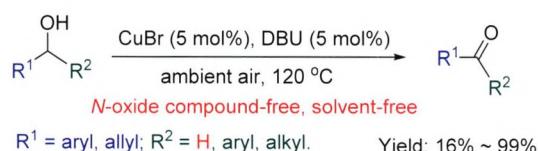


A series of novel pyrazole oxime ethers containing an oxazole moiety were synthesized, and their biological activities were evaluated.

Selective Aerobic Oxidation of Benzylic Alcohols Catalyzed by CuBr/1,8-Diazabicyclo[5.4.0]undec-7-ene

Cai, Liangzhen; Huang, Zhen; Yang, Liqun; Xie, Xiaomin,* Tao, Xiaochun*

Chin. J. Org. Chem. 2018, 38(12), 3326



A novel and practical cuprous bromide-catalyzed aerobic oxidation of benzylic alcohols with 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU) as the additive under air atmosphere has been developed. Various primary and secondary benzylic alcohols and allylic alcohols were smoothly transformed into the corresponding aldehydes and ketones with high yields and selectivity. The process is 2,2,6,6-tetramethylpiperidin-1-oxyl-free and solvent-free.

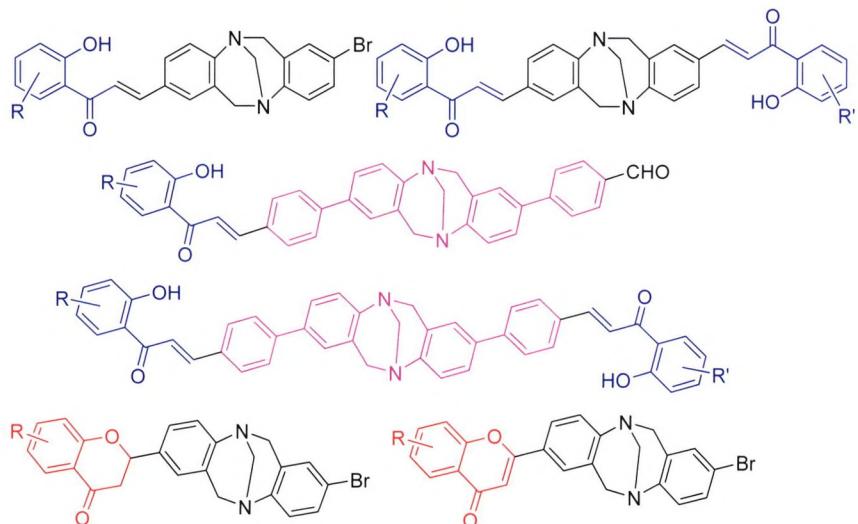


Yan, Lianhai; Hou, Yuheng; Li, Xiaoliu*; Chen, Hua*

Chin. J. Org. Chem. 2018, 38(12), 3332

The key Mistunobu reaction afforded two furanosyl benzimidazole *C*-nucleosides (α/β isomers) by using the unprotected monosaccharides and *o*-phenylenediamine as the starting materials.

Synthesis and Biological Evaluation of Novel Flavonoid-Substituted Tröger's Bases



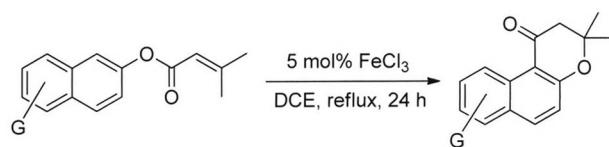
Yuan, Rui; Wang, Yuanjiang; Huang, Shuying; Dou, Pengfei; Zhang, Longyan; Chen, Wen; Ren, Xuanxuan; Zhou, Shengliang; Wan, Yu*; Wu, Hui*

Chin. J. Org. Chem. 2018, 38(12), 3338

A series of flavonoid-substituted Tröger's base analogues were synthesized via multi-step reaction. Their anti-cancer activities on the HepG2 hepatocellular carcinoma cell and antibacterial activities on four bacterial (*Pseudomonas aeruginosa* PAM1032, wild type *Staphylococcus aureus*, wild type *Escherichia coli* and *Escherichia coli*-NMD-1) were evaluated. Two compounds were screened out because of their high inhibitory rate on *Staphylococcus aureus* at 1 $\mu\text{g}/\text{mL}$.

CONTENT

Ferric Chloride Catalyzed Synthesis of 2,3-Dihydrobenzo[*f*]chromen-1-one

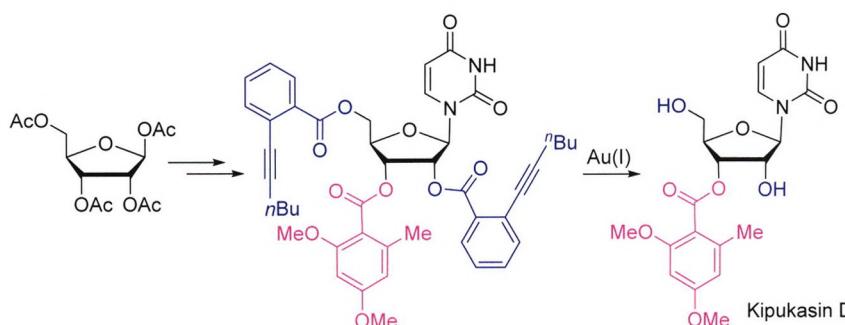


Ding, Xiaoyou; Xu, Fan*

Chin. J. Org. Chem. **2018**, 38(12), 3345

First Total Synthesis of Marine Natural Nucleoside Kipukasin D

An efficient method for the transformation of naphthalyl 3-methylcrotonate to 2,3-dihydrobenzo[f]chromen-1-one catalyzed by ferric chloride is described, which provides a practical process to afford this type of biologically important compounds in good yields using commercially available and inexpensive catalyst. A two-step mechanism involving Fries rearrangement and intramolecular hydroalkoxylation is proposed.

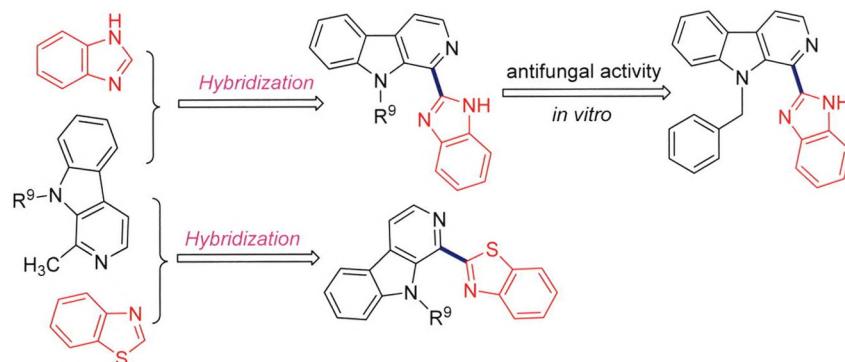


Ding, Haixin; Li, Chuang; Dong, Xiangyou; Cao, Banpen; Zhang, Ning*; Hong, Sanguo; Xiao, Qiang*

Chin. J. Org. Chem. **2018**, 38(12), 3351

Synthesis and Fungicidal Evaluation of Novel β -Carboline-Benzimidazole and β -Carboline-Benzothiazole Hybrids

First total synthesis of naturally occurring marine nucleoside Kipukasin D was disclosed in 9 steps and 15.7% overall yield. The ortho-alkynylbenzoates were used as orthogonal protecting group for 2'-OH and 5'-OH, which can be selectively removed by $\text{Ph}_3\text{P}-\text{AuOTFA}$ in presence of ethanol (6 equiv.) and H_2O (1 equiv.) in dichloromethane. Transesterification was not occurred during the deprotection between 2'-OH and 3'-OH.

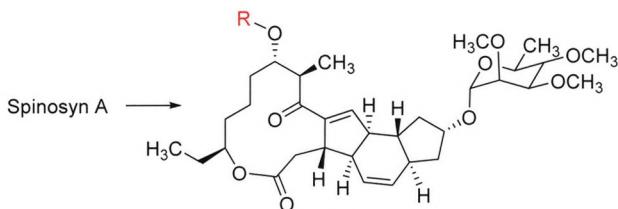


Huo, Xinyu; Li, Wenbin; Zhang, Boya; Chen, Xiaofei; Zhou, Yueling; Zhang, Jie*; Han, Xiaoqiang*; Dai, Bin

Chin. J. Org. Chem. **2018**, 38(12), 3356

Study on the Synthesis and Insecticidal Activity of Spinosyn A Derivatives

Fourteen β -carboline-benzimidazole and β -carboline-benzothiazole hybrids were designed, synthesized and characterized for their antifungal activity against five phytopathogenic fungi. The results demonstrated that most compounds exhibit mild inhibiting effect against all the tested strains. 1-(1*H*-Benz[*d*]imidazol-2-yl)-9-benzyl- β -carboline (**4c**) exhibited broad-spectrum fungicidal activity against most of the tested fungi.

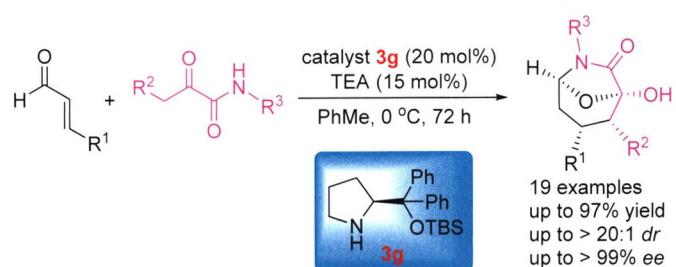


Zhang, Kai; Li, Jiarong*; Wen, Dusu; Liu, Honglin; Wang, Haiyou; A, Lamusi *

Chin. J. Org. Chem. **2018**, 38(12), 3363

A series of *D*-forosamine replacement analogues of spinosyn A were synthesized and characterized, and their insecticidal activities were evaluated against larvae of *Plutella xylostella*.

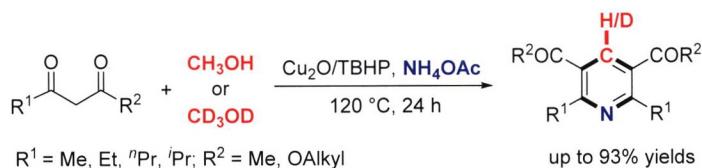
Asymmetric Organocatalytic Construction of Functionalized Bicyclic Lactams



Zhang, Xiong*; Feng, Kaixiang; Xia, Aibao*
Chin. J. Org. Chem. 2018, 38(12), 3373

A new method is developed for the enantioselective synthesis of highly functionalized bicyclic lactams with two *cis* contiguous stereogenic centers.

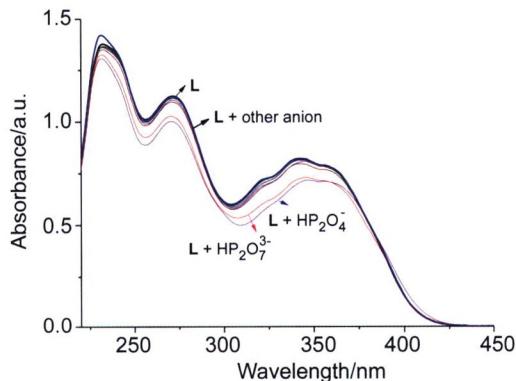
Synthesis of 2,3,5,6-Tetrasubstituted Pyridines via Copper-Catalyzed Domino Oxidative Annulation of 1,3-Dicarbonyl Compounds with Methanol and Ammonium Acetate



Yan, Yizhe*; Li, Zheng; Cui, Chang; Liu, Yanqi*
Chin. J. Org. Chem. 2018, 38(12), 3381

A copper-catalyzed oxidative formal cycloaddition of 1,3-dicarbonyl compounds, methanol and ammonium acetate was first demonstrated, affording symmetrical 2,3,5,6-tetrasubstituted pyridines in moderate to excellent yields. Methanol was employed as the carbon synthon as well as the reaction solvent. The preliminary mechanistic studies revealed that the reaction underwent a radical pathway and the C(sp³)—H bond cleavage of methanol was the rate-determining step.

Synthesis and Anion Recognition of Macrocycle Containing Isophthalamide Unit



Wei, Xiaokang; Gu, Jingchi; Liu, Xingli; Huang, Chao; Zhu, Bixue*
Chin. J. Org. Chem. 2018, 38(12), 3386

A [1+1] Schiff base macrocycle **L** containing isophthalamide unit and phenol rings has been synthesized. The results show that the macrocycle **L** displays a selective recognition ability for H₂PO₄⁻ and HP₂O₇³⁻ anion with a series of anions using UV-Vis absorption spectra technique. Furthermore, the coordination reaction of **L** with H₂PO₄⁻ or HP₂O₇³⁻ anion was investigated via UV-Vis spectra, ¹H NMR and the isothermal titration calorimeter (ITC) respectively.

HIGHLIGHTS

Chin. J. Org. Chem. 2018, 38(12), 3394

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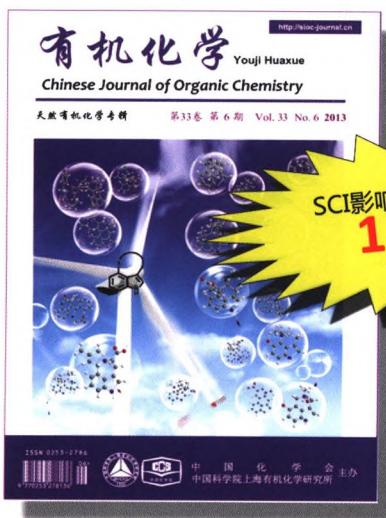
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