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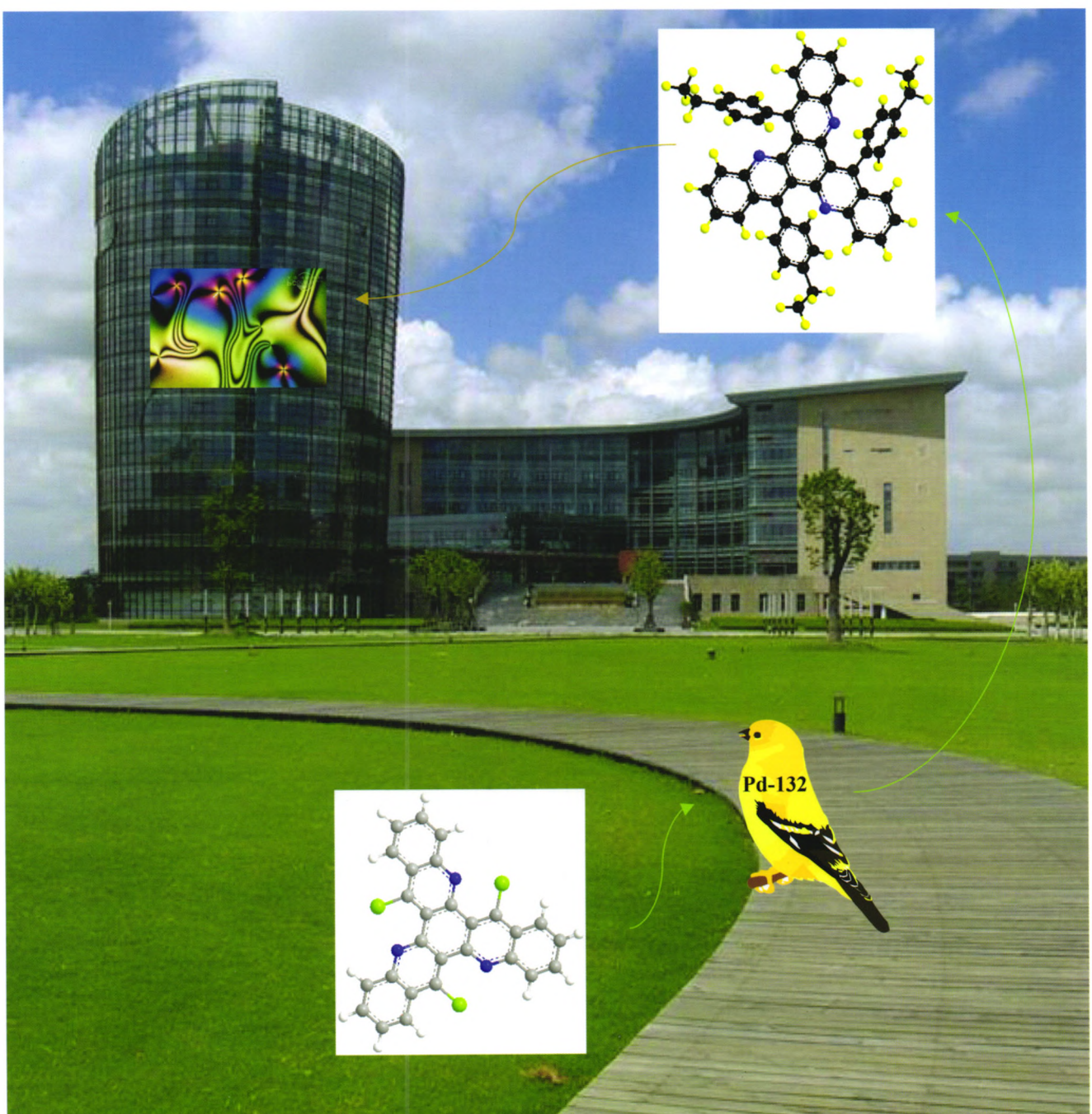

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(YOUJI HUAXUE)

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综述与进展

研究论文

* 通讯联系人.

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研究简报

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Vol. 38 No. 2 February 2018

On the Cover

A series of compounds with potential applications for organic optoelectronic functional materials was reported by Dong, Li, An, Ma, Bai and Liu on page 410. The palladium-catalyzed Suzuki coupling was carried out with a novel catalyst Pd-132 to form fourteen C_3-symmetric 9-aryl acridine derivatives. The reactions can be performed at low catalyst loading (0.1 mol%, ca. 0.03 mol% per site).

REVIEWS

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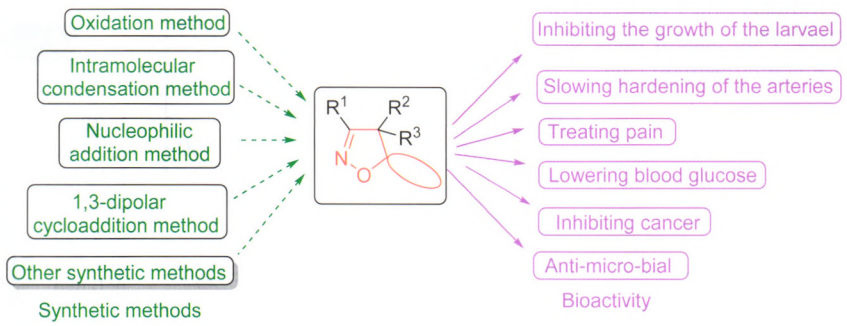
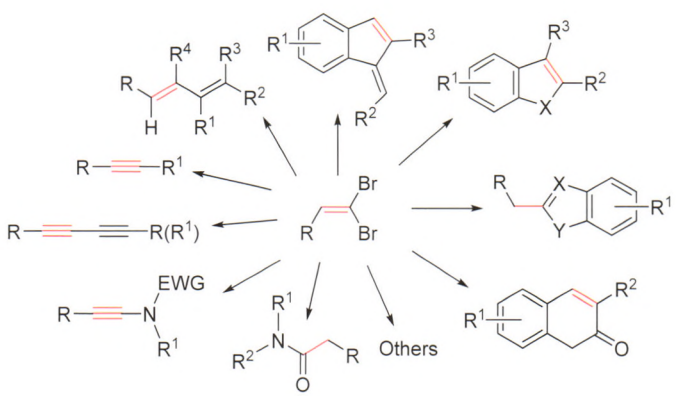
Progress in Synthesis and Bioactivity of Spiroisoxazoline Compounds



On the basis of reaction mechanisms, the synthetic methods of spiroisoxazoline compounds are classified into the following five types: oxidation, intramolecular condensation, nucleophilic addition, 1,3-dipolar cycloaddition, and other methods. Their biological activity is summarized as six categories.

Li, Minghui; Song Buer; Imerhasan, Mukhtar*
Chin. J. Org. Chem. **2018**, *38*(2), 378

Progress on Synthetic Applications of 1,1-Dibromo-1-alkenes

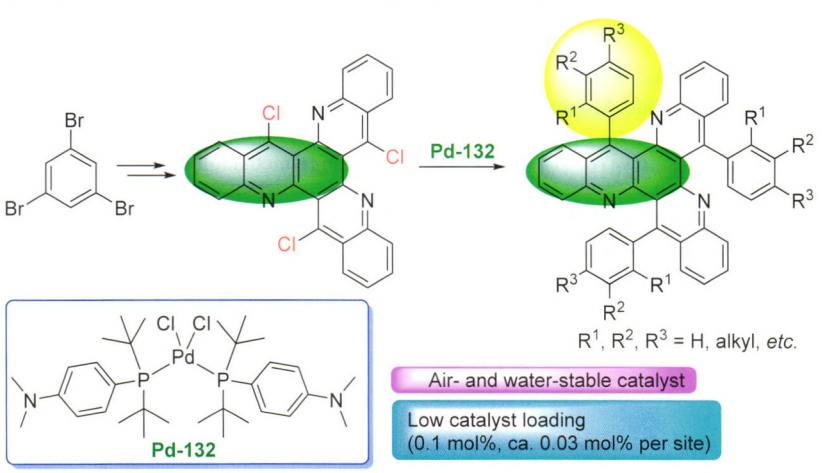


As one type of organic synthetic materials and intermediates, 1,1-dibromo-1-alkenes have been widely researched in C—C, C—N, C—O, C—P, and C—S bond formations. The couple of C—Br bonds in the molecule make it reactive to afford bromoalkenes, bromoalkynes, terminal alkynes, and to prepare poly-substituted alkenes, fused aromatic rings and internal alkynes through coupling reactions. Various organic reactions with 1,1-dibromo-1-alkenes as the starting materials are mainly reviewed.

Zhao, Ming*; Ji, Yuan
Chin. J. Org. Chem. **2018**, *38*(2), 401

ARTICLES

Palladium-Catalyzed Syntheses of C_3-Symmetric 9-Aryl Acridine Derivatives



The palladium-catalyzed Suzuki coupling was carried out with a novel catalyst Pd-132 to form fourteen C_3-symmetric 9-aryl acridine derivatives. The reactions can be performed at low catalyst loading (0.1 mol%, ca. 0.03 mol% per site).

Dong, Kun; Li, Qiuyun; An, Kang; Ma, Junyi; Bai, Zhongsheng; Liu, Qiancai*
Chin. J. Org. Chem. **2018**, *38*(2), 416

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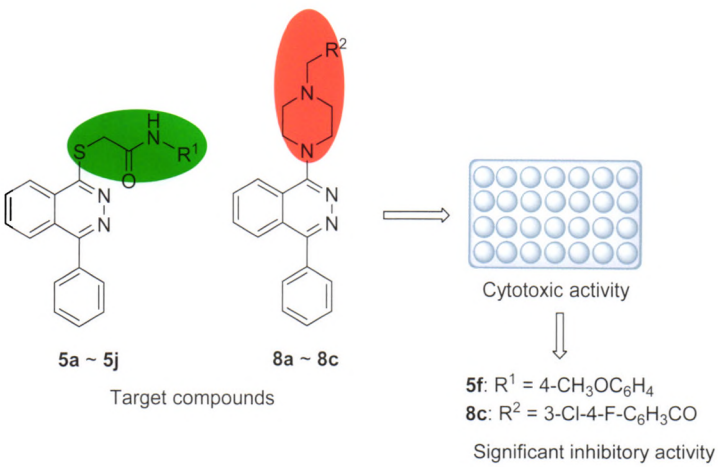
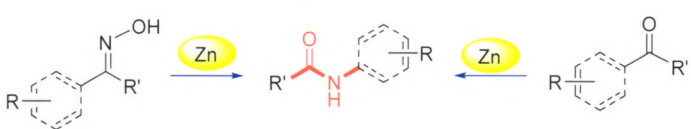
Synthesis and Antitumor Activity of 1-Phenyl-4-substituted Phthalazine Derivatives



Xin, Jingchao; Li, Na; Ma, Qisheng; Li, Erdong; Meng, Xiangchuan; Ke, Yu*; Liu, Hongmin*; Zhang, Qiurong*
Chin. J. Org. Chem. **2018**, *38*(2), 451

In order to find more efficient and economical antitumor drugs, a series of 1-phenyl-4-substituted phthalazine derivatives were synthesized and evaluated for antiproliferative activity *in vivo*. *N*-(4-Methoxyphenyl)-2-((4-phenylphthalazin-1-yl)thio)acetamide (**5f**) and *N*-(3-chloro-4-fluorophenyl)-2-(4-(4-phenylphthalazin-1-yl)piperazin-1-yl)acetamide (**8c**) exhibited excellent growth inhibition against all tested four human cancer cell lines.

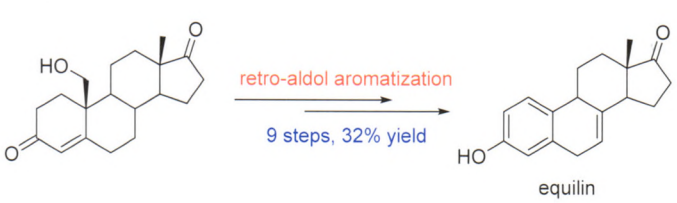
Zn-Catalyzed Beckmann Rearrangement Reaction



Sun, Chao; Yao, Wubing*; Zhang, Bin*; Huang, Xiangyun; Yu, Jiangjiang
Chin. J. Org. Chem. **2018**, *38*(2), 457

The green and highly efficient Zn-catalyst system capable of catalytic Beckmann rearrangement of ketoximes is developed. Featuring the use of the green catalyst system, the Beckmann rearrangement reaction is further extended to a one-pot protocol using ketone and hydroxylamine hydrochloride as reactive materials.

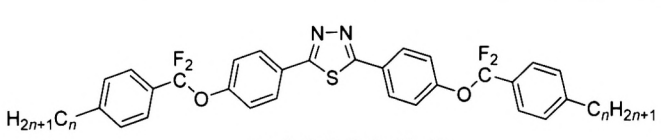
Practical Syntheses of Equilin and Its Derivatives



Zheng, Xiuwen; Ma, Haiyan*; Ding, Kai*
Chin. J. Org. Chem. **2018**, *38*(2), 464

Equilin, 17β-dihydroequilin and 17α-dihydroequilin were efficiently syntesized from commercially available 19-hydroxyandrost-4-ene-3,17-dione via retro-aldol aromatization with the overall yields of 32%, 37% and 25%, respectively.

Synthesis and Properties of Thiadiazole Bent-Core Liquid Crystal with Difluorooxymethylene-Bridge



Yin, Junxia; Wen, Yanhao; Mao, Zhipeng; Zhang, Zhiyong*; Guan, Jintao; Yan, Daoren
Chin. J. Org. Chem. **2018**, *38*(2), 471

In this paper, a series of novel bent-core liquid crystal compounds were designed and synthesized, which were based on 2,5-disubstitueted-1,3,4-thiadiazole as the central units, difluorooxymethylene (CF_2O) as the linking group and straight alkyl as the terminal chain. All of the target compounds exhibited nematic phase and existed wide temperature range of nematic phase.

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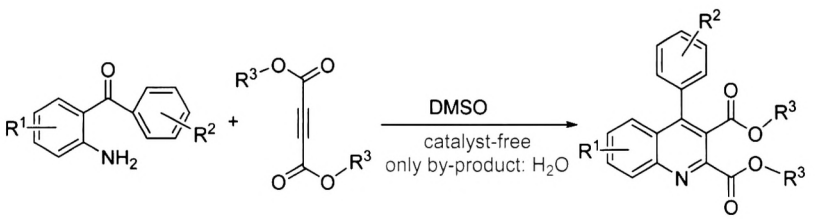
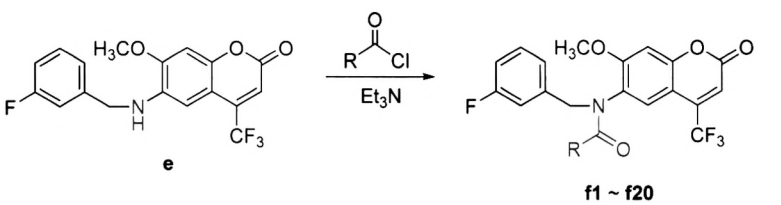
A New Catalyst-Free Synthesis of 2,3-Dicarboxylic Ester Quinoline Derivatives



A high efficient method for the synthesis of 2,3-dicarboxylic ester quinoline derivatives was developed, which employed *o*-amino diphenyl methylone derivatives and acetylenedicarboxylic esters as the reaction substrates. The reaction was well proceeded under catalyst-free and mild condition. Moreover, the only by-product of reaction was water.

Wang, Bin; Ye, Wenbo; Yan, Zicong; Wan, Changfeng*; Hou, Haoqing; Wang, Zhiyong
Chin. J. Org. Chem. **2018**, *38*(2), 504

Synthesis and Biological Activity of Novel Fluorinated Amide Hydroxy Methyl Coumarin Derivatives

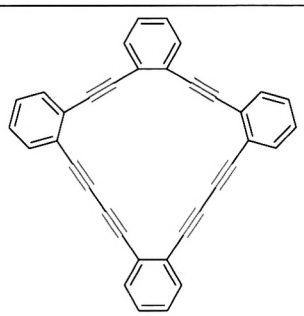


e **f1 ~ f20**

A series of novel fluorinated amide coumarin derivatives were designed and synthesized. Compounds **f1**, **f13**, **f7** and **f20** exhibited marked herbicidal activities. Furthermore, compounds **f12**, **f7** and **f9** were medium active against the phytopathogenic fungi.

Qiao, Lili; Wei, Yan; Hao, Shuanghong*
Chin. J. Org. Chem. **2018**, *38*(2), 509

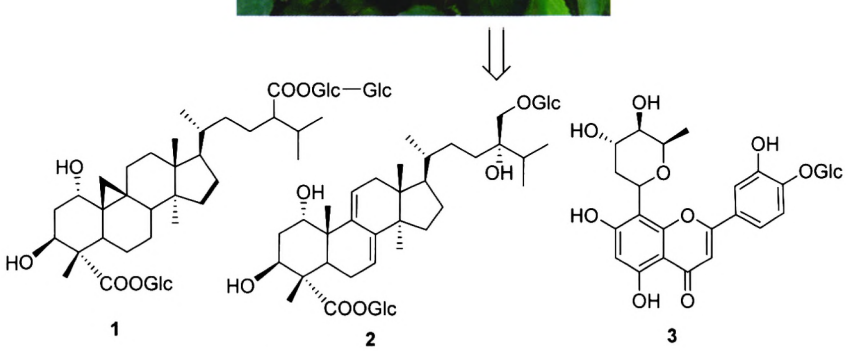
Synthesis of Cyclic Phenyl Polyynes: $Ph_2P(O)$-Deprotection/Intramolecular Eglington Coupling Cyclization



$Ph_2P(O)$-deprotection/intramolecular acetylene coupling, proceeding in one-pot manner, can be applied to synthesize cyclic aromatic polyynes. This one-pot reaction showed some outstanding features including facile seperation of product, easy synthesis of intermediates, mild reaction conditions and high yield.

Peng, Lifen*; Zhang, Siwei; Wang, Binghao; Xun, Mengshuo; Tang, Zilong*; Jiao, Yinchun; Xu, Xinhua
Chin. J. Org. Chem. **2018**, *38*(2), 519

Three New Glycosides from the Stems and Leaves of *Passiflora edulis*



1 **2** **3**

A rare *C*-dideoxyhexosyl flavones with a boivinopyranosyl residue, and two triterpenoides isolated from the stems and leaves of *Passiflora edulis* Sims.

Xu, Fengqing; Fan, Weiwei; Zi, Chengting; Zhou, Jun; Hu, Jiangmiao*
Chin. J. Org. Chem. **2018**, *38*(2), 526

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HIGHLIGHTS

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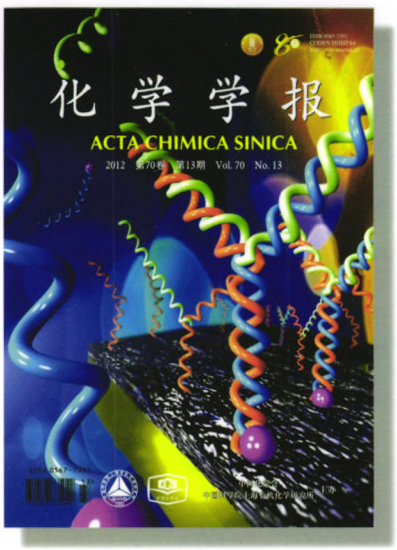

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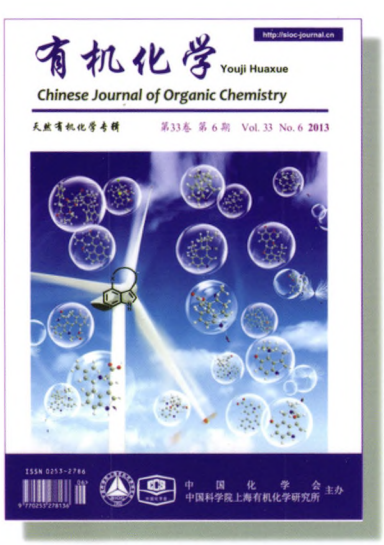

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