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Youji Huaxue

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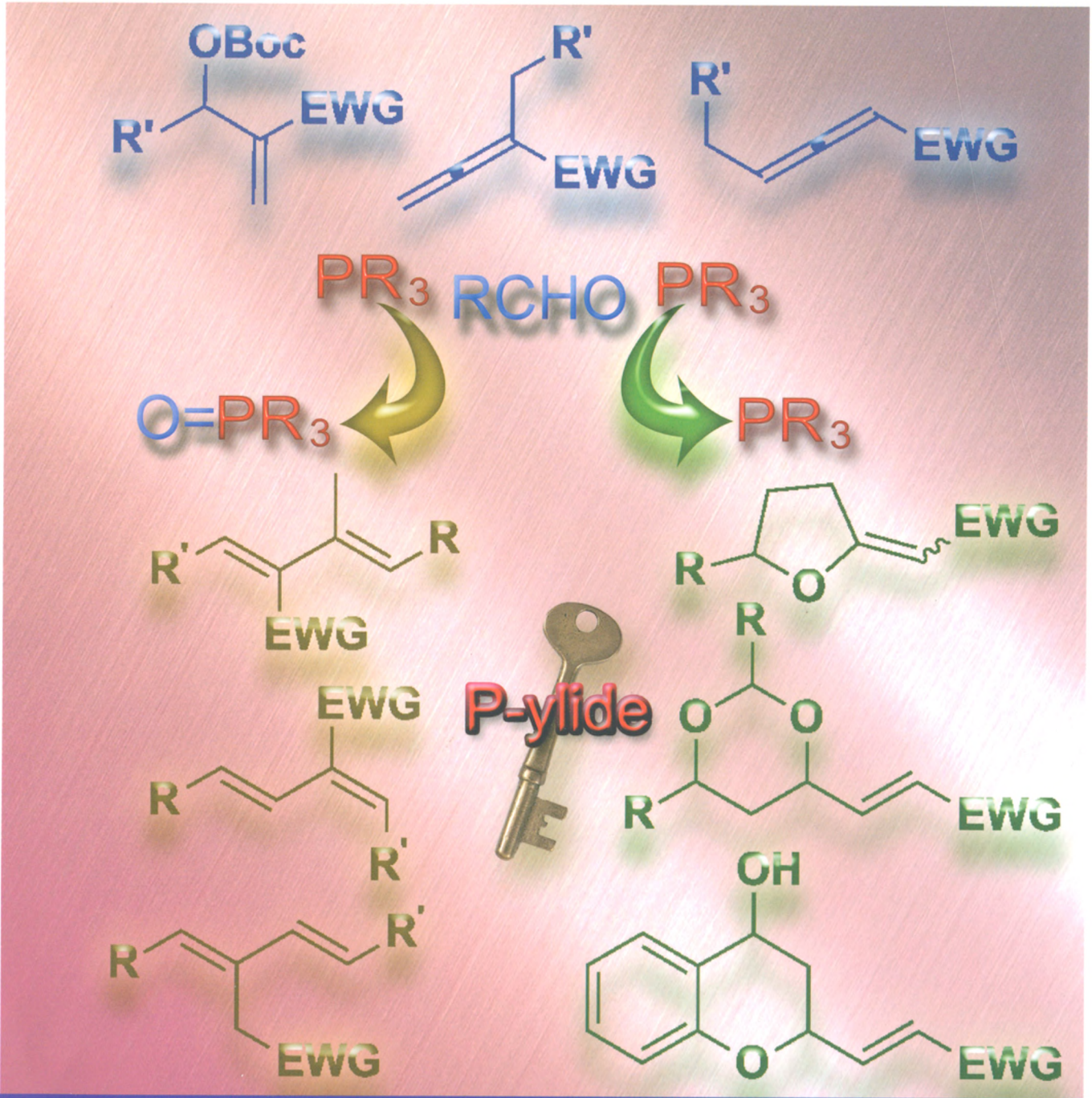

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目 次

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研究简报

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Chinese Journal of Organic Chemistry

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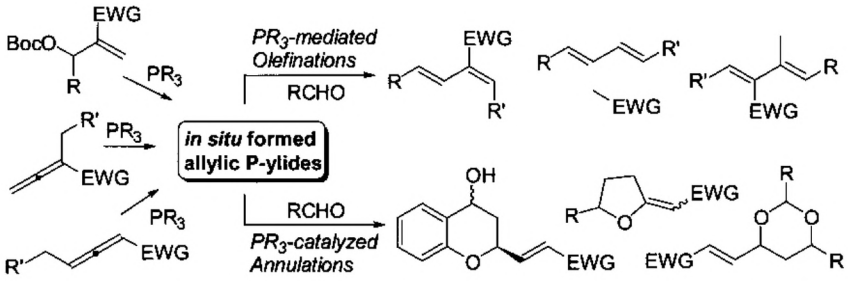
On the Cover

The reactivity of *in situ* generated allylic phosphorus ylides, derived form allylic carbonates or allenoates with tertiary phosphines, towards aldehydes is summarized by Xu and He on page 1159, primarily including stoichiometric phosphine-mediated highly stereoselective Wittig and vinylogous Wittig olefinations to provide polysubstituted 1,3-dienes under salt-free conditions, and several phosphine-catalyzed annulations to afford 5- and 6-membered oxygen heterocycles.

ACCOUNT

Studies on Reactivity of *in situ* Generated Allylic Phosphorus Ylides with Aldehydes



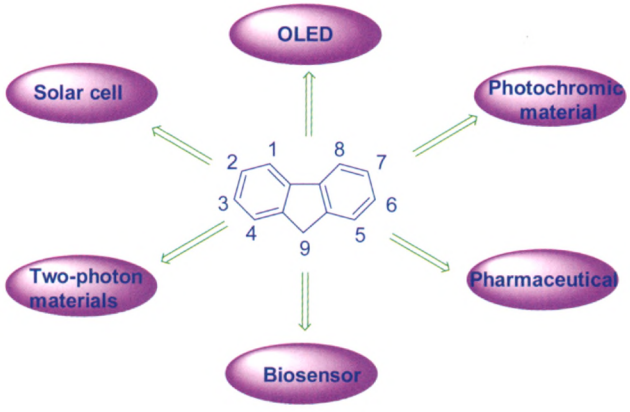
This account summarizes our recent work on the reactivity of *in situ* generated allylic phosphorus ylides with aldehydes, primarily including stoichiometric phosphine-mediated highly stereoselective Wittig and vinylogous Wittig olefinations to provide polysubstituted 1,3-dienes under salt-free conditions, and several phosphine-catalyzed annulations to afford 5- and 6-membered oxygen heterocycles.

Xu, Silong; He, Zhengjie*

Chin. J. Org. Chem. **2012**, *32*(7), 1159

REVIEWS

New Progress of Researches in Fluorene Compounds



The syntheses of fluorene derivatives and their potential applications were extensively investigated and have been become highly active highlight in recent years, and the progress is quite rapid. Combining with our researches and referring other works from literatures, this paper systematically reviews the recent advance in the research and development of fluorene in organic electro-luminescence materials, two-photon absorbing materials, photochromic materials, solar cells, medicinal chemistry and so on. The perspectives of the foreseeable future are also presented.

Huo, Yanping*; Fang, Xiaoming; Huang, Baohua*; Zhang, Kun; Nie, Xiaoli; Zeng, Heping*

Chin. J. Org. Chem. **2012**, *32*(7), 1169

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ARTICLES

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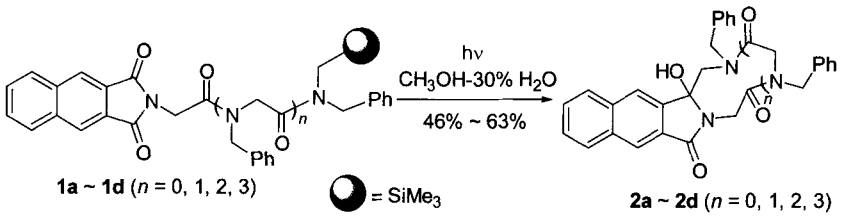
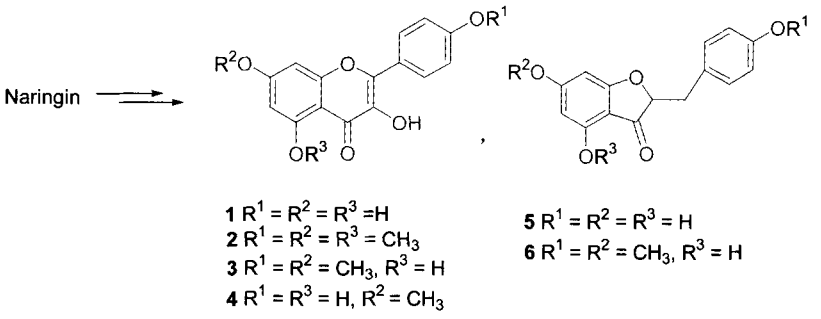
Photoinduced Single Electron Transfer Cyclization Reaction of *N*-(Amidosilane terminated polybenzylglycine peptide chain)-2,3-naphthalimide



Jin, Yingxue; Wang, Jiachang; Yue, Qunfeng; Qu, Fengyu; Wei, Shuquan; Tan, Guanghui*
Chin. J. Org. Chem. **2012**, *32*(7), 1290

Novel intramolecular electron donor-accepter system *N*-(amidosilane terminated polybenzylglycine peptide chain)-2,3-naphthalimide (**1**) could undergo a photoinduced single electron transfer cyclization reaction in MeOH-30% H_2O solvent to provide novel cyclopolyglypeptides **2** in high regioselectivity.

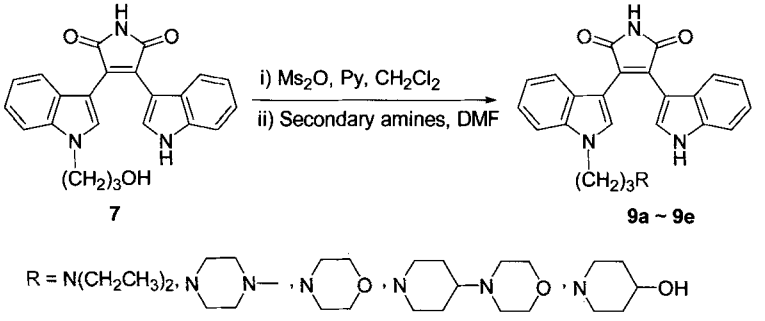
Semisynthesis of Bioactive Flavonols and Aurones from Naringin



Wu, Zheng; Cai, Shuanglian; Fan, Wenjin; Wang, Qiuan*
Chin. J. Org. Chem. **2012**, *32*(7), 1296

Four natural flavonols **1**~**4** and two novel aurones **5**~**6** were semisynthesized from naringin.

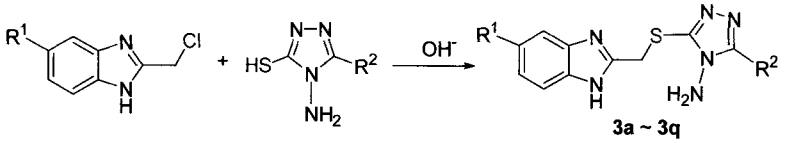
Synthesis of Novel Bisindolylmaleimide Derivatives



Fang, Yongbo; Li, Lixiu; Lu, Xingping; Li, Jinhai; Huang, Yan*
Chin. J. Org. Chem. **2012**, *32*(7), 1303

Compounds **9a**, **9b**, **9d** and **9e** containing different alkylamine side chains, as novel bisindolylmaleimide derivatives, have been derived from methylsulfonylation, ammonolysis of the intermediate **7**.

Synthesis, Structure and Their Biological Activities of 3-[(5-*H*/methyl-benzoimidazol-2-yl)methylthio]-5-substituted-1,2,4-triazol-4-amine Derivatives



An, Yue*; Zhang, Ting; Jiang, Hua; Zhang, Lin; Han, Jie; Yao, Mingxing
Chin. J. Org. Chem. **2012**, *32*(7), 1308

3-[(5-*H*/methyl-benzoimidazol-2-yl)methylthio]-5-substituted-1,2,4-triazol-4-amine derivatives were synthesized by the reaction of 4-amino-5-substituted-1,2,4-triazole-3-thiol with 2-chloromethyl-5-substituted-benzoimidazole in sodium hydroxide solution. The biological activities of the compounds were evaluated with wheat gemma, germination process of mung bean and bateriostasis test with *Staphylococcus aureus*.

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NOTES

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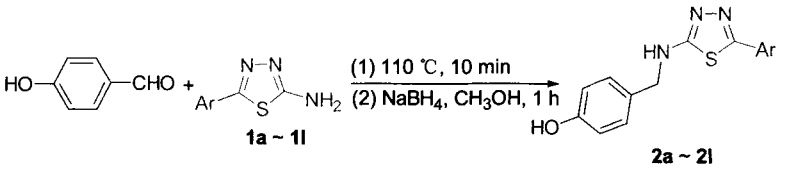
One-Pot Synthesis of Novel 4-[(5-Aryl-1,3,4-thiadiazol-2-ylamino)methyl]phenol Derivatives

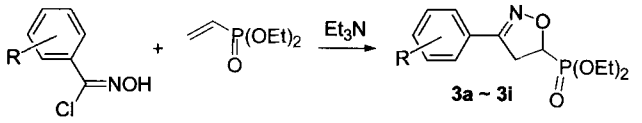


a Ar: 2-ClC_6H_4; **b** Ar: 3-ClC_6H_4; **c** Ar: 4-ClC_6H_4; **d** Ar: C_6H_5; **e** Ar: 2-$CH_3C_6H_4$; **f** Ar: 3-$CH_3C_6H_4$; **g** Ar: 4-$CH_3C_6H_4$; **h** Ar: 2-$CH_3OC_6H_4$; **i** Ar: 3-$CH_3OC_6H_4$; **j** Ar: 4-$CH_3OC_6H_4$; **k** Ar: 4-BrC_6H_4; **l** Ar: 4-$CF_3C_6H_4$

Liu, Hanwen*; Pei, Wenchou; Tang, Zilong
Chin. J. Org. Chem. **2012**, *32*(7), 1332

A new class of 4-[(5-aryl-1,3,4-thiadiazol-2-ylamino)methyl]phenol compounds were synthesized via the nucleophilic addition reaction of 5-phenyl-1,3,4-thiadiazol-2-amine with 4-hydroxybenzaldehyde, dehydration and reduction of unsaturated double bond in one-pot. This procedure has the advantages of short reaction time and simple post treatment. The structures of the products were characterized thoroughly by NMR, IR, MS techniques and elemental analysis.

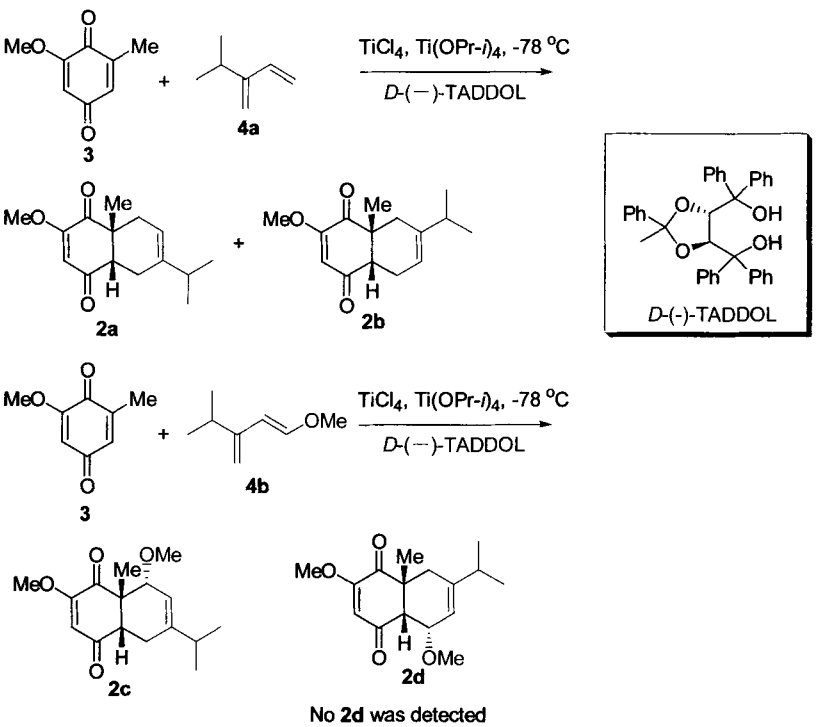
Synthesis and Characterization of 5-Phosphonyl-3-arylisoxazoline



Zhang, Changshui; Ye, Yong*
Chin. J. Org. Chem. **2012**, *32*(7), 1136

A series of regioselectively isoxazolines were synthesized through cycloaddition reaction of nitrile oxides with vinylphosphonate. The structure of title compound was proved as 5-phosphonyl isoxazoline by X-ray crystallography of compound **3c**. Their structures were confirmed by NMR, ESI-MS and elemental analysis. The suppression of the neuraminidase inhibitors was also tested. The result showed that they could inhibit neuraminidase.

Studies on Constructing of the Key Intermediate of Eudesmane Sesquiterpenoid Analogues via Diels-Alder Reaction



Zhang, Yu; Wang, Penghui; Chu, Yong; Liu, Mingming; Chen, Guangyi; Lu, Yinping; Ye, Deyong*
Chin. J. Org. Chem. **2012**, *32*(7), 1340

The key intermediate of eudesmane sesquiterpenoid analogue **2c** was synthesized with high regioselectivity via Diels-Alder reaction from the dienophile 2-methoxyl-6-methyl-1,4-benzoquinone and the diene 1-methoxyl-3-isopropyl-1,4-butadiene.

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HIGHLIGHTS

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