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## 天然药物及仿生药物国家重点实验室

### 近6年来研究成果

发表论文600余篇，授权专利45项，其中国际专利3项，出版著作25部。



#### ◆ 代表论文

2011

2010

2009

2008

2007

2006

#### ◆ 出版著作

#### ◆ 发明专利

#### ◆ 获奖成果

## 2011年代表性论文

1. Iron-catalyzed C-H and C-C Bond Cleavage: A Direct Approach to Amides from Simple Hydrocarbon Molecules. Chong Qin, Wang Zhou, Feng Chen, Yang Ou, and Ning Jiao\*. *Angew. Chem. Int. Ed.*, 2011, 50, 12595-12599. (12.73)
2. Implanting Nitrogen into Hydrocarbon Molecules via C-H/C-C Bonds Cleavage: The Direct Approach to Tetrazoles. Feng Chen, Chong Qin, Yuxin Cui, and Ning Jiao\*. *Angew. Chem. Int. Ed.*, 2011, 50, 11487-11491. (12.73)
3. Copper-catalyzed Aerobic Oxidative Coupling of Aryl Acetaldehydes with Anilines Leading to  $\alpha$ -Ketoamides. Chun Zhang, Zejun Xu, Liangren Zhang, and Ning Jiao\*. *Angew. Chem. Int. Ed.*, 2011, 50, 11088-11092. (12.73)
4. Total Synthesis of ( $\pm$ )-Decursivine and ( $\pm$ )-Serotobenine: A Cascade Witkop Photocyclization/Elimination/O-Michael Addition Approach. Qingjiang Li, Jingqian Jiang, Aili Fan, Yuxin Cui, Yanxing Jia\*. *Angew. Chem. Int. Ed.* 2011, 50, 4447-4449. (12.73)
5. The Direct Transformation of DMF (N, N-Dimethylformamide) to -CN: Pd-catalyzed Cyanation of Heteroarenes via C-H Functionalization. Shengtao Ding, and Ning Jiao\*. *J. Am. Chem. Soc.*, 2011, 133 (32), 12374-12377. (9.023)
6. The antitumor efficacy of functional paclitaxel nanomicelles in treating resistant breast cancers by oral delivery. Yao HJ, Ju RJ, Wang XX, Zhang Y, Li RJ, Yu Y, Zhang L, Lu WL\*. *Biomaterials*, 2011, 32(12):3285-302. (7.882)
7. The use of mitochondrial targeting resveratrol liposomes modified with a dequalinium polyethylene glycol-disfearoylphosphatidyl ethanolamine conjugate to induce apoptosis in resistant lung cancer cells. Wang XX, Li YB, Yao HJ, Ju RJ, Zhang Y, Li RJ, Yu Y, Zhang L, Lu WL\*. *Biomaterials*, 2011, 32(24): 5673-87. (7.882)
8. All-trans retinoic acid stealth liposomes prevent the relapse of breast cancer arising from the cancer stem cells. Li RJ, Ying X, Zhang Y, Ju RJ, Wang XX, Yao HJ, Men Y, Tian W, Yu Y, Zhang L, Huang RJ, Lu WL\*. *J. Control Release*, 2011, 149(3):281-91. (7.164)
9. Chloride channel-mediated brain glioma targeting of chlorotoxin-modified doxorubicine-loaded liposomes. Xiang Yu, Liang Liang, Wang Xueqing, Wang Jiancheng, Zhang Xuan, Zhang Qiang\*. *J Control Release*, 2011, 152(3): 402-410. (7.164)
10. Materializing sequential killing of tumor vasculature and tumor cells via targeted polymeric micelle system. Xiang Yu, Liang Liang, Wang Xueqing, Wang Jiancheng, Zhang Xuan, Zhang Qiang\*. *J Control Release*, 149 (3), 299-306. (7.164)
11. The Versatile Roles Performance of Ammonium Salt Catalysts in Enantioselective Reduction and Alkylation of  $\alpha,\beta$ -Unsaturated Aldehydes: Iminium Catalysis, Enamine Catalysis and Acid Catalysis. Shi-kai Xiang, Bo Zhang, Li-He Zhang, Yuxin Cui, and Ning Jiao\*. *Chem. Commun.* 2011, 47 (17), 5007-5009. (5.787)
12. Morpholine Catalyzed Direct C3 Alkenylation of Indoles with  $\alpha,\beta$ -Unsaturated Aldehydes. *Chem. Commun.* Shi-kai Xiang, Bo Zhang, Li-He Zhang, Yuxin Cui, and Ning Jiao\*. 2011, 47, 8097-8099. (5.787)
13. Enhancement of the immunogenicity of synthetic carbohydrate vaccines by chemical modifications of STn antigen. Fan Yang, Xiu-Jing Zheng, Chang-Xin Huo, Yue Wang, Ye Zhang\*, and Xin-Shan Ye\*. *ACS Chem. Biol.* 2011, 6, 252-259. (5.698)
14. A novel membrane-permeant cADPR antagonist modified in the pyrophosphate bridge. N Qi, K. Jung, M. Wang, L.X. Na, Z. J. Yang\*, L. R. Zhang, A. H. Guse and L. H. Zhang\*. *ChemComm*, 2011, 47, 9462-9464. (5.504)
15. A Highly  $\alpha$ -Stereoselective Synthesis of Oligosaccharide Fragments of Vi Antigen from *Salmonella typhi* and Their Antigenic Activities. Lin Yang, Jingjing Zhu, Xiu-Jing Zheng, Guihua Tai, and Xin-Shan Ye\*. *Chem. Eur. J.*, 2011, 17, 14518-14526. (5.476)
16. Targeting therapy with mitosomal daunorubicin plus amlodipine has the potential to circumvent intrinsic resistant breast cancer. Zhang Y, Li RJ, Ying X, Tian W, Yao HJ, Men Y, Yu Y, Zhang L, Ju RJ, Wang XX, Zhou J, Chen JX, Li N, Lu WL\*. *Mol Pharm*, 2011, 8(1):162-75. (5.4)
17. Total Synthesis of Lamellarins D, H, and R and Ningalin B. Qingjiang Li, Jingqian Jiang, Aili Fan, Yuxin Cui, Yanxing Jia\*. *Org. Lett.* 2011, 13, 312-315. (5.25)
18. The Utilization of Natural Sunlight and Air in the Aerobic Oxidation of Benzyl Halides. Yijin Su, Liangren Zhang, and Ning Jiao\*. *Org. Lett.*, 2011, 13(9), 2168-2171. (5.25)
19. Organocatalytic Asymmetric Intermolecular Dehydrogenative  $\alpha$ -Alkylation of Aldehydes Using Molecular Oxygen as Oxidant. Bo Zhang, Shi-Kai Xiang, Li-He Zhang, Yuxin Cui\*, and Ning Jiao\*. *Org. Lett.*, 2011, 13, 5212-5215. (5.25)
20. An Efficient Difluorohydroxylation of Indoles Using SelectfluorTM as Fluorinating Reagent. Riyuan Lin, Shengtao Ding, Zhuangzhi Shi, and Ning Jiao\*. *Org. Lett.*, 2011, 13(17), 4498-4501. (5.25)