



## 研究成果

[获奖情况](#)
[实验室论文目录](#)
[代表性研究工作](#)
[专利](#)

您的位置：网站首页 > 研究成果 > 实验室论文目录 > 正文

### 2009年发表论文目录

【来源：功能有机分子化学国家重点实验室 | 发布日期： | 作者：】 【选择字号：大 中 小】

1. Copper(I) Cuboctahedral Coordination Cages: Host-Guest Dependent Redox Activity\*\*, Qi-Ting He, Xiang-Ping Li, Yu Liu, Zhi-Quan Yu, Wei Wang, and Cheng-Yong Su\*, *Angew. Chem. Int. Ed.* **2009**, 48, 6156–6159
2. Asymmetric Organocatalytic Relay Cascades: Catalyst Controlled Stereoisomer Selection in the Synthesis of Functionalized Cyclohexanes Yao Wang, Rong-Gang Han, Yong-Long Zhao, Shu Yang, Darren J. Dixon\* and Peng-Fei Xu\*, *Angew. Chem. Int. Ed.*, 48, 9834.
3. Olive-Shaped Chiral Supramolecules: Simultaneous Self-Assembly of Heptameric Lanthanum Clusters and Carbon Dioxide Fixation Xiao-Liang Tang, Wen-Hua Wang, Wei Dou, Jie Jiang, Wei-Sheng Liu,\* Wen-Wu Qin, Hong-Rui Zhang, Kai-Bei Yu, and Li-Min Zheng, *Angew. Chem. Int. Ed.*, **2009**, 48, 3499.
4. The Copper-Catalyzed Decarboxylative Coupling of the sp<sup>3</sup>-Hybridized Carbon Atoms of  $\alpha$ -Amino Acids Hai-Peng Bi, Liang Zhao, Yong-Min Liang,\* and Chao-Jun Li\*, *Angew. Chem. Int. Ed.* **2009**, 48, 792.
5. Bronsted Acid Catalyzed Enantioselective Semipinacol Rearrangement for the Synthesis of Chiral Spiroethers Qing-Wei Zhang, Chun-An Fan, Hai-Jun Zhang, Yong-Qiang Tu,\* Yu-Ming Zhao, Pei-Ming Gu, and Zhi-Min Chen, *Angew. Chem. Int. Ed.* **2009**, 48, 8572.
6. Iron-Catalyzed C(sp<sup>3</sup>)-C(sp<sup>3</sup>) Bond Formation via sp<sup>3</sup> C-H Functionalization: A Cross-Coupling Reaction of Alcohols with Alkenes Shu-Yu Zhang, Yong-Qiang Tu,\* Chun-An Fan, Fu-Min Zhang, and Lei Shi, *Angew. Chem. Int. Ed.* **2009**, 48, 8761.
7. Construction of Two Vicinal Quaternary Carbons by Asymmetric Allylic Alkylation: Total Synthesis of Hyperolactone C and (-)-Biyouyanagin A Chao Du, Li-Qi Li, Ying Li, and Zhi-Xiang Xie\*, *Angew. Chem. Int. Ed.* **2009**, 48, 7853.
8. Magnesium-Magnesium Bond Stabilized by a Doubly Reduced  $\alpha$ -Diamine: Synthesis and Structure of [K(THF)<sub>3</sub>]<sub>2</sub> [LMg-MgL] (L) [(2,6-iPr<sub>2</sub>C<sub>6</sub>H<sub>3</sub>)NC(Me)]<sub>2</sub>). Yanyan Liu, Shaoguang Li, Xiao-Juan Yang,\* Peiju Yang, and Biao Wu\*, *J. Am. Chem. Soc.*, **2009**, 131, 4210–4211.
9. Rhodium-Catalyzed Direct Oxidative Carbonylation of Aromatic C-H Bond with CO and Alcohols Zheng-Hui Guan, Zhi-Hui Ren, Stephen M. Spinella, Shichao Yu, Yong-Min Liang,\* and Xumu Zhang\*, *J. Amer. Chem. Soc.*, **2009**, 131, 729.
10. Organocatalytic Asymmetric Vinylogous  $\alpha$ -Ketol Rearrangement: Enantioselective Construction of Chiral All-Carbon Quaternary Stereocenters in Spirocyclic Diketones via Semipinacol-Type 1,2-Carbon Migration En Zhang, Chun-An Fan, Yong-Qiang Tu,\* Fu-Min Zhang, and Yan-Lin Song, *J. Amer. Chem. Soc.*, **2009**, 131, 14626.


11. Hollow Nanostructured Polyaniline: Preparation, Properties and Applications Peng Liu<sup>?</sup> and Long Zhang, *Critical Reviews in Solid State and Materials Sciences*, 34:75–87, **2009**
12. Extremely Large Volume Electrokinetic Stacking of Cationic Molecules in MEKC by EOF Modulation with Strong Acids in Sample Solutions Hui-ge Zhang, Jin-hua Zhu, Sheng-da Qi, Na Yan, and Xing-guo Chen\*, *Anal. Chem.* **2009**, 81, 8886–8891.
13. Catalytic asymmetric cycloaddition of carbon dioxide and propylene oxide using novel chiral polymers of BINOL-Salen-cobalt(III) salts. Peng Yan, Huanwang Jing\*, *Advanced Synthesis & Catalysis* **2009**, 35, 1325-1332.
14. Atom-Efficient Palladium-Catalyzed Still Coupling Reaction of Tetraphenylstannane with Aryl Iodides or Aryl Bromides in Polyethylene Glycol 400(PEG-400). Wen-Jun Zhou, Ke-Hu Wang, Jin-Xian Wang\*, *Adv. Synth. Catal.* **2009**, 351(9), 1378-1382.
15. Alkylzinc-Mediated Addition of Alkynes to N-Tosylaldimines: Enantioselective Synthesis of (E)-(2-En-3-ynyl)-amines Chao Yin, Xiu-Qin Hu, Xin-Ping Hui, and Peng-Fei Xu\*, *Adv. Synth. Catal.* **2009**, 351, 1512.
16. Development and Application of a New General Method for the Asymmetric Synthesis of (E)-(2-En-3-ynyl)-amines Chao Yin, Xin-Ping Hui,\* Peng-Fei Xu,\* Liang-Feng Niu, Yong-Fei Chen, and Bing-he Wang, *Adv. Synth. Catal.* **2009**, 351, 357.
17. Doubly stereocontrolled asymmetric aza-Henry reaction with in situ generation of N-Boc imines catalyzed by novel rosin-derived amine thiourea catalysts Xianxing Jiang, Yifu Zhang, Lipeng Wu, Gen Zhang, Xing Liu, Hailong Zhang, Dan Fu, Rui Wang \*, *Adv. Synth. Catal.*, **2009**, 351, 2096.
18. An efficient enantioselective method for asymmetric Friedel-Crafts alkylation of indoles with  $\alpha,\beta$ -unsaturated aldehydes Liang Hong, Lei Wang, Chao Chen, Bangzhi Zhang, Rui Wang \*, *Adv. Synth. Catal.*, **2009**, 351, 772.
19. The Synthesis of Polysubstituted Pyrroles via the Coupling of Phenyliodonium Ylides and Enamine Esters Jun-Yan Wang, Xian-Fei Wang, Zheng-Sen Yu, and Wei Yu,\* , *Adv. Synth. Catal.* **2009**, 351, 2063 – 2066.
20. Intramolecular Photochemical Cross-Coupling Reactions of 3-Acyl-2-haloindoles and 2-Chloropyrrole-3-carbaldehydes with Substituted Benzenes Shen-Ci Lu, Xi-Xia Zhang, Zong-Jun Shi, Yu-Wei Ren, Bing Li, and Wei Zhang, *Adv. Synth. Catal.* **2009**, 351, 2839 – 2844
21. Highly Efficient Synthesis of Quaternary  $\alpha$ -Hydroxy Phosphonates via Lewis Acid-Catalyzed Hydrophosphonylation of Ketones Xin Zhou, Yanling Liu, Lu Chang, Jiannan Zhao, Deju Shang, Xiaohua Liu, Lili Lin, and Xiaoming Feng\*, *Adv. Synth. Catal.* **2009**, 351, 2567 – 2572.
22. Copper-Catalyzed One-Pot Synthesis of 2-Alkylidene-1,2,3,4- tetrahydropyrimidines, Wei Lu, Wangze Song, Deng Hong, Ping Lu, and Yanguang Wang\* , *Adv. Synth. Catal.* **2009**, 351, 1768-1772.
23. One-Pot Synthesis of Highly Substituted Allenylidene Derivatives via Palladium- or Nickel-Catalyzed Tandem Michael Addition–Cyclization Reaction Yun Shi, Jing Huang, Yan-Fang Yang, Lu-Yong Wu, Yan-Ning Niu, Peng-Fei Huo, Xue-Yuan Liu, and Yong-Min Liang\*, *Adv. Synth. Catal.* **2009**, 351, 141.
24. Hydroxycinnamic acids as DNA-cleaving agents in the presence of Cu(II) ions: Mechanism, structure-activity relationship and biological implication Gui-Juan Fan, Xiao-Ling Jin, Yi-Ping Qian, Qi Wang, Ru-Ting Yang, Fang Dai, Jiang-Jiang Tang, Ya-Jing Shang, Li-Xia Cheng, Jie Yang, Bo Zhou\*, *Chem. Eur. J.*, **2009**, 15, 12889.
25. Highly Enantioselective 1,4-Addition of Diethyl Phosphite to Enones Using a Dinuclear Zn Catalyst Depeng Zhao, Ye Yuan, Albert S. C. Chan, Rui Wang\*, *Chem. Eur. J.*, **2009**, 15, 2738.
26. Highly enantioselective conjugate additions of phosphites to  $\alpha,\beta$ -unsaturated N-acylpyrroles and imines: a practical approach to enantiomerically enriched amino phosphonates Depeng Zhao, Yuan Wang, Lijuan Mao, Rui Wang \*, *Chem. Eur. J.* **2009**, 15, 10983.

27. Enantioselective Friedel-Crafts alkylation of 4,7-dihydroindoles with enones catalyzed by primary-secondary diamines Liang Hong, Wangsheng Sun, Chunxia Liu, Lei Wang, Kwokyin Wong, Rui Wang\* , *Chem. Eur. J.* **2009**, 15, 11105.
28. The Sensitive and Selective Optical Detection of Mercury(II) Ions by Using a Phosphorothioate DNAzyme Strategy. Zhang, D.; Deng, M. G.; Xu, L.; Zhou, Y. Y.; Yuwen, J.; Zhou, X. , *Chemistry-a European Journal* **2009**, 15, (33), 8117-8120.
29. Iron (III)-Catalyzed and Air-Mediated Tandem Reaction of Aldehydes, Alkynes and Amines: An Efficient Approach to Substituted Quinolines Ke Cao, Fu-Min Zhang, Yong-Qiang Tu,\* Xiao-Tao Zhuo, and Chun-An Fan, *Chem. Eur. J.* **2009**, 15, 6332.
30. Novel Cyclic Sulfonium-Based Ionic Liquids: Synthesis, Characterization, and Physicochemical Properties Qinghua Zhang, Shimin Liu, Zuopeng Li, Jian Li, Zhengjian Chen, Ruifeng Wang, Liujin Lu, and Youquan Deng\*, *Chem. Eur. J.* **2009**, 15, 765 – 778
31. Base and copper(I) catalyzed Mannich, alkyne hydroamination cascades for the direct synthesis of 2-methylenepyrrolidines Hai-Fei Wang, Ting Yang, Peng-Fei Xu\* and Darren J. Dixon\*, *Chem. Commun.* **2009**, 3916.
32. A novel iodine-mediated tandem cyclization–cycloaddition reaction leading to polyoxacyclic ring systems Yong-Xin Xie, Ze-Yi Yan, Bo Qian, Wen-Ye Deng, Dan-Zhu Wang, Lu-Yong Wu, Xue-Yuan Liu and Yong-Min Liang\*, *Chem. Commun.* **2009**, 5451.
33. Tandem reactions of cis-2-acyl-1-alkynyl-1-aryl cyclopropanes tuned by gold(I) and silver(I) catalysts: efficient synthesis of pyran-fused indene cores and 2,4,6-trisubstituted phenols Xiao-Ming Zhang, Yong-Qiang Tu,\* Yi-Jun Jiang, Yong-Qiang Zhang, Chun-An Fan and Fu-Min Zhang\*, *Chem. Commun.* **2009**, 4726.
34. Gold-catalyzed reaction of enynols by a dimerization–fragmentation process: an expeditious assembly of enyne molecular architecture Yong-Qiang Zhang, Zhi-Hua Chen, Yong-Qiang Tu,\* Chun-An Fan, Fu-Min Zhang, Ai-Xia Wang and Dao-Yi Yuan Yong-Qiang Tu *Chem. Commun.* **2009**, 2706.
35. Novel and Direct Transformation of Methyl Ketones or Carbinols to Primary Amides by Employing Aqueous Ammonia Liping Cao, Jiaoyang Ding, Meng Gao, Zihua Wang, Juan Li, and Anxin Wu\*, *Org. Lett.*, Vol. 11, No. 17, **2009**
36. Facile One-Pot Synthesis of 4,5-Disubstituted 1,2,3-(NH)-Triazoles through Sonogashira Coupling/1,3-Dipolar Cycloaddition of Acid Chlorides, Terminal Acetylenes, and Sodium Azide Jihui Li, Dong Wang, Yuanqing Zhang, Jiting Li, and Baohua Chen\*, *Org. Lett.*, **2009**, 11, 3024-3027.
37. Highly Catalytic Asymmetric Addition of Deactivated Alkyl Grignard Reagents to Aldehydes Chao-Shan Da,\* Jun-Rui Wang, Xiao-Gang Yin, Xin-Yuan Fan, Yi Liu, and Sheng-Li Yu, *Org. Lett.*, **2009**, 11, 5578-5581
38. Palladium-Catalyzed Heteroannulation of [60]Fullerene with Amides via C-H Bond Activation Bo Zhu and Guan-Wu Wang\*, *Org. Lett.*, Vol. 11, No. 19, **2009**
39. Diastereo- and Enantioselective Aza-MBH-Type Reaction of Nitroalkenes to N-Tosylimines Catalyzed by Bifunctional Organocatalysts Xiao Wang, Yong-Fei Chen, Liang-Feng Niu, and Peng-Fei Xu\*, *Org. Lett.*, **2009**, 11, 3310.
40. Organocatalytic enantioselective Friedel-Crafts alkylation of 4,7-dihydroindoles with alpha,beta-unsaturated aldehydes: an easy access to 2-substituted indoles Liang Hong, Chunxia Liu, Wangsheng Sun, Lei Wang, Kwokyin Wong and Rui Wang\*, *Org. Lett.*, **2009**, 11, 2177.
41. Highly enantioselective synthesis of  $\gamma$ -nitro heteroaromatic ketones in a double sterecontrolled manner catalyzed by

- bifunctional thiourea catalysts based on dehydroabiatic amine: a double sterecontrolled approach to pyrrolidine carboxylic acids Xianxing Jiang, Yifu Zhang, Albert S. C. Chan and Rui Wang\*, *Org. Lett.*, **2009**, 11, 153.
42. Photoinduced Intramolecular Addition of 3-Acyl-2-haloindoles to Alkenes Shen-Ci Lu, Xiao-Yong Duan, Zong-Jun Shi, Bing Li, Yu-Wei Ren, Wei Zhang,\* Yong-Hui Zhang, and Zhi-Feng Tu, *Org. Lett.*, **2009**, 11, 3902-3905.
43. Enantioselective Three-Component Kabachnik#Fields Reaction Catalyzed by Chiral Scandium(III)#N,N#-Dioxide Complexes Xin Zhou, Deju Shang, Qi Zhang, Lili Lin, Xiaohua Liu, and Xiaoming Feng\* , *Org. Lett.*, **2009**, 11, 1401-1404.
44. New Oligothiophene-Pentacene Hybrids as Highly Stable and Soluble Organic Semiconductors Jing Wang, Ke Liu, Yi-Yang Liu, Cheng-Li Song, Zi-Fa Shi, Jun-Biao Peng, Hao-Li Zhang,\* Xiao-Ping Cao\*, *Org. Lett.*, **2009**, 11, 2563.
45. Novel Synthesis of Amphiphilic Dendrons by the Double-Stage Convergent Method Zi-Fa Shi, Wen-Yu Chai, Peng An, and Xiao-Ping Cao\*, *Org. Lett.* **2009**, 11, 4394.
46. Efficient and Regioselective One-Pot Synthesis of 3-Substituted and 3,5-Disubstituted Isoxazoles Shibing Tang, Jinmei He, Yongquan Sun, Liuer He, and Xuegong She\*, *Org. Lett.*, **2009**, 11, 3982.
47. A Novel Prins Cyclization through Benzylic/Allylic C-H Activation Binxun Yu, Tuo Jiang, Junpeng Li, Yingpeng Su, Xinfu Pan, and Xuegong She\*, *Org. Lett.*, **2009**, 11, 3442.
48. An Efficient Method for Construction of the Angularly Fused 6,3,5-Tricyclic Skeleton of Mycorrhizin A and Its Analogues Binxun Yu, Tuo Jiang, Weiguo Quan, Junpeng Li, Xinfu Pan, and Xuegong She\*, *Org. Lett.*, **2009**, 11, 629.
49. Efficient Asymmetric Total Syntheses of Cryptocarya Triacetate, Cryptocaryolone, and Cryptocaryolone Diacetate Xiaolei Wang, Wenkuan Wang, Huaji Zheng, Yingpeng Su, Tuo Jiang, Yongping He, and Xuegong She\* , *Org. Lett.*, **2009**, 11, 3136.
50. Copper-Catalyzed Tandem Nucleophilic Ring-Opening/Intramolecular Oxidative Amidation of N-Tosylaziridines and Hydrazones under Aerobic Conditions Deng Hong, Xufeng Lin,\*Yuanxun Zhu, Ming Lei, and Yanguang Wang\*, *Org. Lett.*, **2009**, 11, 5678-5681
51. One-Pot Synthesis of Highly Substituted Aromatic Amine Derivatives via Pd-Catalyzed Aminobenzannulation Reaction Fa-Rong Gou, Peng-Fei Huo, Hai-Peng Bi, Zheng-Hui Guan, and Yong-Min Liang\*, *Org. Lett.*, **2009**, 11, 3418.
52. Novel Carbon Carbon Bond Formation from Propargylic Alcohols and Ole?n toward Five-Membered Heterocyclic Rings Catalyzed by AgSbF6 Ke-Gong Ji, Xing-Zhong Shu, Shu-Chun Zhao, Hai-Tao Zhu, Yan-Ning Niu, Xue-Yuan Liu, and Yong-Min Liang\*, *Org. Lett.*, **2009**, 11, 3206.
53. Acid-Catalyzed Skeletal Rearrangement of Epoxy Alkynes: A Fast Access to Highly Functionalized Allenes Zhao-Jing Zheng, Xing-Zhong Shu, Ke-Gong Ji, Shu-Chun Zhao, and Yong-Min Liang\*, *Org. Lett.*, **2009**, 11, 3214.
54. Palladium-Catalyzed Aryl C?H Bonds Activation/Acetoxylation Utilizing a Bidentate System Fa-Rong Gou, Xiang-Chuan Wang, Peng-Fei Huo, Hai-Peng Bi, Zheng-Hui Guan and Yong-Min Liang\*, *Org. Lett.*, **2009**, 11, 5726.
55. Au(I)-Catalyzed Rearrangement Reaction of Propargylic Aziridine: Synthesis of Trisubstituted and Cycloalkene-Fused Pyrroles Xiong Zhao, En Zhang, Yong-Qiang Tu,\* Yong-Qiang Zhang, Dao-Yi Yuan, Ke Cao, Chun-An Fan and Fu-Min Zhang, *Org. Lett.*, **2009**, 11, 4002.
56. A Review on Hemisynthesis, Biosynthesis, Biological Activities, Mode of Action, and Structure-Activity Relationship of Podophyllotoxins: 2003-2007 Hui Xu\*, Min Lv, and Xuan Tian, *Current Medicinal Chemistry*, **2009**, 16, 327-349 2

57. A simple oleonic acid derivative as potent organogelator Jun Hu, Meng Zhang, and Yong Ju\* , *Soft Matter*, **2009**, 5, 4971–4974.
58. Chiral ionic liquids improved the asymmetric cycloaddition of CO<sub>2</sub> to epoxides. Suling Zhang, Yongzhong Huang, Huanwang Jing\*, Weixuan Yao, Peng Yan , *Green Chemistry*, **2009**, 11, 935-938.

 打印本页

 关闭窗口

 返回顶部