

生物有机与分子工程实验室 2005 年发表学术论文统计

- 1) Nucleophilic Addition to C=O and C=N Bonds by the Nucleophiles Containing Diazo Group.
Yonghua Zhao, Jianbo Wang
Synlett, **2005**, 2886-2892. (*A account*)
- 2) Reaction of β -Trimethylsiloxy α -Diazocarbonyl Compounds with Trimethylsilyl Halide: A Novel Diazo Decomposition Process.
Fengping Xiao, Zhenhua Zhang, Jian Zhang, Jianbo Wang
Tetrahedron Lett. **2005**, 46, 8873–8875.
- 3) A new method for the synthesis of 2-cyclopenten-1-one-5-carboxylic ester derivatives via $\text{Rh}_2(\text{OAc})_4$ -mediated intramolecular C–H insertion reaction of 4Z- β -vinyl- α -diazo- β -ketoesters.
Guisheng Deng,* Baihua Xu, Jianbo Wang
Tetrahedron, **2005**, 61, 10811-10817.
- 4) Highly Stereoselective [2,3]-Sigmatropic Rearrangement of Sulfur Ylide Generated through Cu(I) Carbene and Sulfides.
Ming Ma, Lingling Peng, Changkun Li, Xiu Zhang, Jianbo Wang
J. Am. Chem. Soc. **2005**, 127, 15016-15017.
- 5) Stereoselective Intramolecular 1,3 C-H Insertion in Rh(II) Carbene Reactions.
Weifeng Shi, Bo Zhang, Jian Zhang, Binge Liu, Shiwei Zhang, Jianbo Wang
Org. Lett. **2005**, 7, 3103-3106.
- 6) Concise and Diastereoselective Approach to *syn*- and *anti*- α -Hydroxy β -Amino Acid Derivatives
Yonghua Zhao, Nan Jiang, Shufeng Chen, Cheng Peng, Xiaomei Zhang, Yaping Zou, Shiwei Zhang and Jianbo Wang
Tetrahedron **2005**, 61, 6546-6552.
- 7) 1,2-Vinyl and 1,2-Acetylenyl Migration in Rh(II) Carbene Reaction: Remarkable Bystander Effect
Weifeng Shi, Fengping Xiao and Jianbo Wang
J. Org. Chem. **2005**, 70, 4218-4322.
- 8) 1,2-Thio Group Migration in Rh(II) Carbene Reactions
Feng Xu, Weifeng Shi, and Jianbo Wang
J. Org. Chem. **2005**, 70, 4191-4194.
- 9) An Efficient Synthesis of Aryl α -Keto Esters
Ming Ma, Changkun Li, Lingling Peng, Fang Xie, Xiu Zhang and Jianbo Wang
Tetrahedron Lett. **2005**, 46, 3927-3929.

- 10) 1,2-Shift in Organic Reactions
Weifeng Shi, Fengping Xiao, Jianbo Wang
Journal of Yunnan University of the Nationalities (Natural Sciences Edition).
2005, 14, 109-114. (A review in Chinese)
- 11) Regioselective 1, 2-Addition of Ti(IV)-Enolate to α , β -Unsaturated Compounds
Guisheng Deng, Mingyi Liao, Xue Tian, Jianbo Wang
Chin. Chem. Lett. **2005**, 16, 589-592.
- 12) Zirconocene-mediated intermolecular coupling of Si-tethered diynes with alkynes, ketones, aldehydes, and isocyanates via novel skeletal rearrangement of zirconacyclobutene-silacyclobutene and zirconacyclohexadiene-silacyclobutene fused ring intermediates
Tao Yu, Xiaohua Sun, Congyang Wang, Liang Deng, and Zhenfeng Xi*
Chem. Eur. J. **2005**, 11, 1895-1902.
- 13) Cleavage of C-Si bond by intramolecular nucleophilic attack: lithiation-promoted formation of siloles from 1-bromo-4-tetrasubstituted silyl-1,3-butadiene derivatives
Zhihui Wang, Hongyun Fang, and Zhenfeng Xi*
Tetrahedron Lett. **2005**, 46, 499-501.
- 14) Preparation and Electrophilic Cyclization of Multi-substituted Dienamides Leading to Cyclic Iminoethers
Congyang Wang, Jiang Lu, Guoliang Mao, and Zhenfeng Xi*
J. Org. Chem. **2005**, 70, 5150-5156.
- 15) Lewis acid-promoted reactions of zirconacyclopentadienes with isocyanates. One-pot three-component synthesis of multiply substituted iminocyclopentadienes from one isocyanate and two Alkynes
Jiang Lu, Guoliang Mao, Wenxiong Zhang, and Zhenfeng Xi*
Chem. Commun. **2005**, 4848-4850.
- 16) New Methods for the Preparation of Multiply Substituted Cyclopentadienes and Related Compounds
Zhenfeng Xi*
Topics in Catalysis **2005**, 35, 63-71.
- 17) Concise Synthesis of Multiply Substituted Stereodefined *cis*, *cis*-2,4-diene-1,6-dials, *cis*, *cis*-2,4-diene-1,6-diols and further applications
Guoliang Mao, Congyang Wang, Jinglong Chen, Ayako Muramatsu, and Zhenfeng Xi*
Tetrahedron Lett **2005**, 46, 5369-5372.

- 18) Tetramethyl Thiourea/ $C_{60}(CO)_8$ -Catalyzed Pauson-Khand Reaction under Balloon Pressure of CO
Yefeng Tang, Lujiang Deng, Yandong Zhang, Guangbin dong, Jiahua Chen, and Zhen Yang
Org.Lett. **2005**, 7, 593-595.
- 19) Copper-Free Sonogashira Coupling Reaction with $PdCl_2$ in –Water under Aerobic Conditions
Bo Liang, Mingji Dai, Jiahua Chen, and Zhen Yang
J. Org. Chem. **2005**, 70, 391-393.
- 20) A Highly Efficient Synthesis of the FGH Ring of Micrandilactone A. Application of Thioureas as Ligands in the C_0 -Catalyzed Pauson-Khand Reaction and Pd-Catalyzed Carbonylative Annulation
Yefeng Tang, Yandong Zhang, Mingji Dai, Tuoping Luo, Lujiang Deng, Jiahua Chen, and Zhen Yang
Org.Lett. **2005**, 7, 885-888.
- 21) Thioureas as Ligands in the Pd-Catalyzed Intramolecular Pauson- Khand Reaction
Yefeng Tang, Lujiang Deng, Yandong Zhang, Guangbin dong, Jiahua Chen, and Zhen Yang
Org.Lett. **2005**, 7, 1657-1659.
- 22) Pd-Catalyzed Copper-Free Carbonylative Sonogashira Reaction of Aryl Iodides with Alkynes for the Synthesis of Alkynyl Ketones and Flavones by Using Water as Solvern
Bo Liang, Mengwei Huang, Zejin You, Zhengchang Xiong, Kui Lu, Reza Fathi, Jiahua Chen, and Zhen Yang
J. Org. Chem. **2005**, 70, 6097-6100.
- 23) Exploring an Expedient IMDA Reaction Approach to Construct the Guanacastepene Core
Chuang-Chuang Li, Shuang Liang, Xin-Hao Zhang, Zhi-Xiang Xie, Jia-Hua Chen, Yun-Dong Wu, and Zhen Yang
Org.Lett. **2005**, 17, 3709-3712.
- 24) Linear C_2 -symmetric polycyclic benzodithiophene: efficient, highly diversified approaches and the optical properties
Cui-Hua Wang, Rong-Rong Hu, Shuang Liang, Jia-Hua Chen, Zhen Yang and Jian Pei
Tetrahedron Letters **2005**, 46, 8153-8157.
- 25) A Concise and Diversity-Oriented Strategy for the Synthesis of Benzofurans and Indoles via Ugi and Diels-Alder Reactions
Kui Lu, Tuoping Luo, Zheng Xiang, Zejin You, Reza Fathi, Jiahua Chen, and Zhen Yang
J. Comb. Chem. **2005**, 7, 958-967.

- 26) Oligothiophene-Functionalized Truxene: Star-Shaped Compounds for Organic Field-Effect Transistors
Yanming Sun, Kai Xiao, Yunqi Liu, Jinliang Wang, Jian Pei, Gui Yu, and Daoben Zhu
Adv.Funct.Mater. **2005**, *15*,
- 27) Nanosized π -Conjugated Molecules Based on Truxene and Porphyrin: Synthesis and High Fluorescence Quantum Yields
Xiaofei Duan, Jinliang Wang, and Jian Pei
Org. Lett. **2005**, *7*, 4071-4074.
- 28) Single-Molecule Nanosized Polycyclic Aromatics with Alternant Five- and Six-Membered Rings: Synthesis and Optical Properties
Wei Zhang, Xiaoyu Cao, Hong Zi, and Jian Pei
Org. Lett. **2005**, *7*, 959-962.
- 29) Star-Shaped and Linear Nanosized Molecules Functionalized with Hexa-*peri*-hexabenzocoronene: Synthesis and Optical Properties
Xiaoyu Cao, Hong Zi, Wei Zhang, Hua Lu, and Jian Pei
J.Org.Chem. **2005**, *70*, 3645-3653.
- 30) Novel Highly fluorescent dendritic chiral amines: synthesis and optical properties
Hui Wang, Jinliang Wang, Sichun Yuan, Jian Pei, Weiwei Pei
Tetrahedron, **2005**, *61*, 8465-8474.
- 31) Linear C_2 -symmetric polycyclic benzodithiophene: efficient highly diversified approaches and the optical properties
Cuihua Wang, Rongrong Hu, Shuang Liang, Jiahua Chen, Zhen Yang, and Jian Pei
Tetrahedron Letters, **2005**, *46*, 8153-8157.
- 32) Preparation of [5,6]- and [6,6]-oxahomofullerene derivatives and their interconversion by lewis acid assisted reactions of fullerene mixed peroxides
Huang, SH; Xiao, Z; Wang, FD; Zhou, J; Yuan, G; Zhang, SW; Chen, ZF; Thiel, W; Schleyer, PV; Zhang, X; Hu, XQ; Chen, BC; Gan, LB
Chem. Eur. J. **2005**, *11*, 5449-5456.
- 33) Regiochemistry of [70]fullerene: Preparation of C-70((OOBu)-Bu-t)(n), (n = 2, 4, 6, 8, 10) through both equatorial and cyclopentadienyl addition modes
Xiao, Z; Wang, FD; Huang, SH; Gan, LB; Zhou, J; Yuan, G; Lu, MJ; Pan, JQ
J. Org. Chem. **2005**, *70*, 2060-2066.
- 34) Asymmetric Henry reaction catalyzed by C_2 -symmetric tridentate bis(oxazoline) and bis(thiazoline) complexes: metal-controlled reversal of enantioselectivity
Du, Da-Ming^{*}; Lu, Shao-Feng; Fang, Tao; Xu, Jiayi^{*}
J. Org. Chem. **2005**, *70*(9), 3712-3715.

- 35) Synthesis of C_3 -Symmetric tris(β -hydroxy amide) ligands and their Ti(IV) complex-catalyzed enantioselective alkynylation of aldehydes
Fang, Tao; Du, Da-Ming*; Lu, Shao-Feng; Xu, Jiayi*
Org. Lett. **2005**, 7(11), 2081-2084.
- 36) Synthesis of novel chiral semicrown ether-like bis(oxazoline) ligands and application in enantioselective cyclopropanation of styrene
Wang, Zhan-Yue; Du, Da-Ming* ; Xu, Jia-Xi
Synth. Commun. **2005**, 35(2), 299-313.
- 37) Investigation on mass spectra fragmentation mechanism of C_2 -symmetric chiral bis(oxazolines) and bis(thiazolines)
Chen, Hui; Du, Da-Ming; Fu, Bin; He, Meiyu*
Chin. J. Chem. **2005**, 23(6), 720-724.
- 38) C_2 -对称性手性双噁唑啉和双噻唑啉配体的合成及其在不对称催化反应中的应用
杜大明*, 吕少峰, 傅滨, 许家喜
有机化学, **2005**, 25(增刊), 103.
- 39) 三齿双噁唑啉和双噻唑啉络合物催化的不对称 Henry 反应—Lewis 酸控制的对映选择性反转
吕少峰, 杜大明*, 许家喜
有机化学, **2005**, 25(增刊), 104.
- 40) Analysis of Noncovalent Complexes between Human Telomeric DNA and Polyamides Containing N-Methylpyrrole and N-Methylimidazole by Using Electrospray Ionization Mass Spectrometry
Jiang Zhou, Gu Yuan
Chem.Eur. J. **2005**, 11, 1157-1162.
- 41) Studies on Electrochemical Oxidation Mechanisms of Polyamides Containing N-Methylpyrrole and N-Methylimidazole by Electrospray Ionization Tandem Mass Spectrometry
Zhonghua Ji, Jingjian Li, Jiang Zhou, Limei Hui, Gu Yuan, and Shengmin Cai
J.Phys.Chem.B, **2005**, 109(36), 17162-17168.
- 42) Electrospray negative ionization mass spectrometry of polyamides containing N-Methylpyrrole and N-Methylimidazole
J.Mass Spectrom., **2005**, 40, 688-689.

- 43) Synthesis of a Novel Conjugate of Bromoarene and Polyamide Containing N-Methylimidazoles
Dan Liu, Gu Yuan
Chinese Chemical Letters, **2005**, *16*,1330-1332.
- 44) Development of miniaturized competitive immunoassays on a protein chip as a screening tool for drugs
Du HW, Wu MT, Yang WP, Yuan G, Sun YM, Lu Y, Zhao S, Wang F, Yan S, Pan M, Lu Y, Wang S, Cheng J.
Clinical Chemistry, **2005**, *51*(2),368-375.
- 45) Selective carbonyl propargylation mediated by SnCl₂/NiCl₂-KL in water
Wang J, Miao XP, Yuan G.
Australian Journal of chemistry, **2005**, *58*(8), 611-614.
- 46) 聚酰胺类DNA识别分子质谱的碎裂机理
李钦玲, 周江, 汤菲力, 袁谷
化学学报, **2005**, *63*, 834-840。
- 47) N-甲基吡咯类聚酰胺的合成及其与 DNA 的相互作用
李钦玲, 周江, 刘丹, 袁谷
高等学校化学学报, **2005**, *12*, 2267-2269。
- 48) Microwave and photoirradiation-induced Staudinger reactions of cyclic imines and ketenes generated from α -diazoketones. A further investigation into the Stereochemical process
Liang, Yong; Jiao, Lei; Zhang, Shiwei; **Xu, Jiayi**.
J. Org. Chem., **2005**, *70*(1), 334-337.
- 49) Mildly and highly selective reductive deoxygenation of *para*-di- and monoalkylaminophenyl ketones by borane
Wei, Tiezheng; Lan, Yu; **Xu, Jiayi**.
Heteroatom Chem., **2005**, *16*(1), 2-5.
- 50) Rationale on abnormal effect of temperature on the enantioselectivity in the asymmetric borane reduction of ketones catalyzed by prolinol
Xu, Jiayi; Wei, Tiezheng; Lin, Shrong-Shi; Zhang, Qihan
Helv. Chim. Acta, **2005**, *88*(1), 180-186.
- 51) A structurally diverse heterocyclic library: A benzothiazepine-fused β -lactam library derived from reaction of 2,3-dihydro-1,5-benzothiazepines and acyl chlorides: synthesis and stereochemistry
Xu, Jiayi.
Molecular Diversity, **2005**, *9*(1-3), 45-49.

- 52) Negative ion electrospray ionization mass spectrometry of *N*-benzyloxycarbonyl protected 1-substituted and cyclic taurines
Xu, Jiayi; Ma, Yuan; Xu, Shu; Zhao, Yufen
Rapid Commun. Mass Spectrom., **2005**, *19*(13), 1835-1838.
- 53) Differentiation of constitutional isomer of 2,2a,3,4-tetrahydro-4-methyl-2a-phenyl-2-(thiophen-2-yl)-1*H*-azeto[2,1-*d*][1,5]benzothiazepin-1-one-5-oxide and fragmentations of 2,3-dihydro-2,4-diphenyl-1,5-benzothiazepine-1-oxide/-1,1-dioxide
Xu, Jiayi; Zuo, Gang; Liang, Bo
Chem. Res. Chin. Univ., **2005**, *21*(3), 274-279.
- 54) A new and expeditious synthesis of 1-substituted and cyclic taurines
Huang, Jiaying; Wang, Fei; Du, Daming; **Xu, Jiayi**
Synthesis, **2005**, (13), 2122-2128.
- 55) Mass spectrometry of 2a,4-disubstituted 5-benzoyl-2a,3,4,5-tetrahydro-2-phenoxy-azeto[1,2-*a*][1,5]benzodiazepin-1(2*H*)-ones under electron impact ionization conditions
Xu, Jiayi; Huang, Xu
Chem. Res. Chin. Univ., **2005**, *21*(4), 452-456.
- 56) Convenient and efficient synthesis of 1,1-bis-(4-alkylthiophenyl)-1-alkenes via tandem Friedel-Crafts acylation and alkylation of sulfides and acyl chlorides
Xu, Jiayi; Xia, Jiakun; Lan, Yu
Synth. Commun., **2005**, *35*(17), 2347-2353.
- 57) The first synthesis of optically active 1-substituted taurines
Xu, Jiayi; Xu, Shu; Zhang, Qihan
Heteroatom Chem., **2005**, *16*(6), 466-471.
- 58) Chiral oxazaborolidine-catalyzed asymmetric borane reduction of alkyl 1-(4-dialkylaminophenyl) ketones
Xu, Jiayi; Lan, Yu; Wei, Tiezheng; Zhang, Qihan
Chin. J. Chem., **2005**, *23*(10), 1457-1461.
- 59) Rational tuning chelate size of bis-oxazoline ligands to improve enantioselectivity in the asymmetric aziridination of chalcones
Ma, Linge; Du, Daming; **Xu, Jiayi**
J. Org. Chem., **2005**, *70* (24), 10155-10158.
- 60) Rigid backbone 1,8-anthracene-linked bis-oxazolines (AnBOXes): design, synthesis, application and characteristics in catalytic asymmetric aziridination
Ma, Linge; Jiao, Peng; Zhang, Qihan; **Xu, Jiayi**.

Tetrahedron: Asymmetry, **2005**, 16(22), 3718-3734.

- 61) Mass spectrometric fragmentation of 2a,4-disubstituted
2,2a,3,4-tetrahydro-2-phenyl-1*H*-azeto[2,1-*d*][1,5]benzothiazepin-1-ones under electron
impact ionization conditions and comparison with their 2-heteroatom substituted
analogues
Xu, Jiayi; Wang, Chao
Phosphorus Sulfur Silicon Relat. Elem., **2005**, 180(12), 2779-2785.
- 62) Synthesis of 1-(*N*-ethoxycarbonylamino)alkylphosphonic monoesters
Liu, H.; **Xu, Jiayi**
Amino Acids, **2005**, 29(3), 241-243.
- 63) Theoretical and experimental study of nicotinamide molecularly imprinted polymers with
different porogens
Wu LQ, Zhu KC, Zhao WP, **Li YZ**.
ANALYTICA CHIMICA ACTA, 2005, 549 (1-2): 39-44.
- 64) Molecularly imprinted polymer with salicylaldehyde-Cu(OAc)₂ as template
Yang ML, **Li YZ**.
JOURNAL OF MOLECULAR RECOGNITION, 2005, 18 (1): 103-108.
- 65) Sample preparation for pharmaceutical analysis
Xiaofang Fu, Yiping Liao and Huwei Liu*
Anal. Bioanal. Chem., **2005**, 381, 75-77.
- 66) Separation and detection of erythropoietin (EPO) by CE and CE-MS
Bing Yu, Hailin Cong, Huwei Liu *, Yuanzong Li and Feng Liu
Trend in Analytical Chemistry, TrAC, **2005**, 24(4), 350-357.
- 67) Separation Methods for Toxic Components in Traditional Chinese Medicines
Wei Li, Weining Yue, Zheng Chen, Yiping Liao, Huwei Liu*
Anal. Sci, **2005**, 21 (9) 1019-1029.
- 68) Ionene-dynamically coated capillary for analysis of urinary and recombinant human
erythropoietin by capillary electrophoresis and online electrospray ionization mass
spectrometry
Bing Yu, Hailin Cong, Huwei Liu*, Yuanzong Li, Feng Liu
J. Sep. Sci., **2005**, 28, 2390-2400.
- 69) A UNIVERSAL METHOD FOR THE DETERMINATION OF PHENOLIC ACIDS IN
COMPOUND HERBAL DRUGS BY HPLC
Dawei Wen, Yuping Liu, Huwei Liu*
Journal of Agricultural and Food Chemistry, **2005**, 53(17): 6624-6629.

- 70) 用 6,6-ionene 涂层的毛细管对重组促红细胞生长素及其酶解产物进行 CE 和 CE-ESI-MS 分析
于冰, 丛海林, 刘虎威*, 李元宗, 刘锋
色谱, **2005**, 23, 487-491.
- 71) Ionic liquid-based aqueous two-phase system, a sample pretreatment procedure prior to high-performance liquid chromatography of opium alkaloids
Li, SH; He, CY; Liu, HW; Li, K; Liu, F
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, **2005**, 826 (1-2): 58-62.
- 72) Ionic liquid-salt aqueous two-phase system, a novel system for the extraction of abused drugs
Li, SH; He, CY; Liu, HW; Li, KA; Liu, F
CHINESE CHEMICAL LETTERS, **2005**, 16 (8): 1074-1076.
- 73) Extraction of testosterone and epitestosterone in human urine using aqueous two-phase systems of ionic liquid and salt
He, CY; Li, SH; Liu, HW; Li, K; Liu, F
JOURNAL OF CHROMATOGRAPHY A, **2005**, 1082 (2): 143-149.
- 74) Selection of ligands for affinity chromatography using quartz crystal biosensor
Liu, Y; Tang, XL; Liu, F; Li, K
ANALYTICAL CHEMISTRY, **2005**, 77 (13): 4248-4256.
-