

2003

1) Catalytic Asymmetric [2,3]-Sigmatropic Rearrangement of Sulfur Ylides Generated from Carbenoids

Xiaomei Zhang, Ming Ma and Jianbo Wang

Chin. J. Org. Chem. **2003**, 23, Suppl. 19.

2) Direct Asymmetric Aldol Type Reaction with Ethyl Diazoacetate: Stereoselective Synthesis of a, b-Dihydroxy Esters

Mingyi Liao, Wengang Yao, Haitao Feng and Jianbo Wang

Chin. J. Org. Chem. **2003**, 23, Suppl. 18.

3) Unusual Reaction of b-Hydroxy a-Diazo Carbonyl Compounds with Trichloroacetonitrile (Cl₃CCN) and Sodium Hydride

Weifeng Shi, Nan Jiang and Jianbo Wang

Chin. J. Org. Chem. **2003**, 23, Suppl. 17.

4) 1,2 Migration in Carbenoid and Carbene Reactions

Ming Ma, Nan Jiang, Weifeng Shi and Jianbo Wang

Chin. J. Org. Chem. **2003**, 23, Suppl. 14.

5) An Efficient Synthesis of a-aryl b-amino Phosphonate Derivatives from a-diazophosphonate

Yonghua Zhao, Nan Jiang and Jianbo Wang

Tetrahedron Lett. **2003**, 44, 8339-8342.

6) Unusual Reaction of b-Hydroxy a-Diazo Carbonyl Compounds with Cl₃CCN/NaH and Rh(II)-catalyzed Reaction of b-Trichloroacetylamino a-diazo Carbonyl Compounds

Weifeng Shi, Nan Jiang, Shiwei Zhang, Weiming Wu, Daming Du, and Jianbo Wang

Org. Lett. **2003**, 5, 2243-2246.

7) Catalytic Asymmetric [2,3]-Sigmatropic Rearrangement of Sulfur Ylides generated from Carbenoids and Allenic 2-Methylphenyl Sulfide

Xiaomei Zhang, Ming Ma and Jianbo Wang

Chin. J. Chem., **2003**, *21*, 878-882.

8) Direct Catalytic Asymmetric Aldol-Type Reaction of Aldehydes with Ethyl Diazoacetate

Wengang Yao, Jianbo Wang

Org. Lett. **2003**, *5*, 1527-1530.

9) Study of the Rh₂(OAc)₄- or BF₃.OEt₂-Mediated Reaction of Thioacetic S-Acid with α -Diazocarbonyl Compounds

Wengang Yao, Mingyi Liao, Xiaomei Zhang, Hao Xu, Jianbo Wang

Eur. J. Org. Chem. **2003**, 1784-1788.

10) Catalytic Asymmetric S-H Insertion Reaction of Carbenoids

Xiaomei Zhang, Ming Ma and Jianbo Wang

Arkivoc, **2003**, (II), 84-91.

11) Catalytic Asymmetric [2,3]-Sigmatropic Rearrangement of Sulfur Ylides generated from Carbenoids and Propargyl Sulfides

Xiaomei Zhang, Ming Ma and Jianbo Wang

Tetrahedron: Asymmetry, **2003**, *13*, 891-895.

12) Synthesis of Enantiomerically Pure (*R*)-Spiro[4,5]decane-2,7-dione

Wengang Yao and Jianbo Wang

Chin. J. Org. Chem. **2003**, *23*, 546-549.

13) Rh(II)-Carbene Reaction Controlled by Conformation: Study on Rh(II) Complex Catalyzed Reaction of Diazoesters and Diazoamides

Zhaohui Qu, Weifeng Shi, Xianglin Jin, Jianbo Wang

Chin. J. Org. Chem. **2003**, *23*, 988-995.

14) Investigation on the Transition Metal and Acid Catalyzed Reaction of β -(*N*-Tosyl)amino Diazo Carbonyl Compounds

Nan Jiang, Zhihua Ma, Zhaohui Qu, Xiaoyu Xing, Linfeng Xie and Jianbo Wang

J. Org. Chem. **2003**, *68*, 893-900.

15) A Novel Approach to Two-ring Fused Cyclopentenone Derivatives
Guisheng Deng, Xue Tian and Jianbo Wang

Tetrahedron Lett. **2003**, *44* (3), 587-589.

16) Alkyne and Ketone Induced Novel Cleavage of a C-C Bond and a C-Si Bond in Zirconacyclobutene-silacyclobutene Fused Ring Compounds
Tao Yu, Liang Deng, Changjia Zhao, Zhiping Li, and Zhenfeng Xi
Tetrahedron Lett. **2003**, *44*, 677-679

17) FeCl_3 -mediated Reaction of 1,4-Dilithio-1,3-dienes with Alkynes Affording Benzene Derivatives
Guotao Li, Hongyun Fang, Zhiping Li, and Zhenfeng Xi
Chin. J. Chem. **2003**, *21*, 219-221

18) Reaction of Aluminacyclopentadienes with Aldehydes Affording Cyclopentadiene Derivatives
Hongyun Fang, Changjia Zhao, Guotao Li, and Zhenfeng Xi
Tetrahedron , **2003** , *59*, 3779-3786.

19) Lewis Acid Mediated Reactions of Zirconacyclopentenes with Aldehydes Affording Homoallyl Ketones via Oppenauer-type Oxidation
Changjia Zhao, Jun Yan, and Zhenfeng Xi
J. Org. Chem. **2003**, *68*, 4355-4360

20) Preparation of S-containing Heterocycles via Novel Reaction Patterns of Carbon Disulfide with 1-Lithiobutadienes and 1,4-Dilithiobutadienes
Congyang Wang, Jinglong Chen, Qiuling Song, Zhiping Li, and Zhenfeng Xi
Arkivoc part (ii) **2003**, 155-164

21) One-pot Four-component Synthesis of Tetrahydrofuran Derivatives Involving An Alkyne, An Ethylene and Two Aldehydes via CuCl -mediated Reactions of Oxazirconacyclopentenes with Aldehydes
Changjia Zhao, Jiang Lu, Jun Yan, and Zhenfeng Xi
Tetrahedron Lett. **2003**, *44*, 6895-6898

22) Formation of stereodefined multiply substituted all-*cis* octatetraenes, tricycle-[4.2.0.0^{2,5}]octa-3,7-dienes and pentalenes via CuCl or FeCl_3 -mediated dimerization of 1-lithiobutadienes and 1,4- dilithiobutadienes
Guotao Li, Hongyun Fang, and Zhenfeng Xi
Tetrahedron Lett. **2003**, *44*, 8705-8708.

23) Novel chiral dibenzo[a,b]cycloheptadiene bisoxazoline and catalytic enantioselective cyclopropanation of styrene.
Du, Da-Ming*; Fu, Bin; Hua, Wen-Ting

Tetrahedron, **2003**, 59(11), 1933-1938.

24) Synthesis of novel chiral polyamide macrocycles containing pyridyl side-arm and their molecular recognition properties

Chen, Xiao; Du, Da-Ming; Hua, Wen-Ting

Tetrahedron: Asymmetry, **2003**, 14(8), 999-1007.

25) Studies on the synthesis of novel chiral naphthylene bisoxazoline ligands.

Wang, Zhan-Yue; Du, Da-Ming*; Wu, Di; Hua, Wen-Ting

Synth. Commun. **2003**, 33(8), 1275-1283.

26) Synthesis of novel chiral C₂-symmetric bisoxazoline ligands containing 2,5-di(*m*-substituted)phenyl-1,3,4-oxadiazole.

Xu, Dong-Cheng; Du, Da-Ming*; Ji, Nan; Wang, Zhan-Yue; Hua, Wen-Ting*.

Synth. Commun., **2003**, 33(14), 2563-2574.

27) Study of the fragmentation mechanism of novel functionalized macrocycles by Fourier transform ion cyclotron resonance mass spectrometry.

Chen, Hui; Du, Da-Ming; Hua, Wen-Ting; He, Meiyu*; Xin, Bin.

J. Mass Spectrom. **2003**, 38(8), 839-844.

28) Asymmetric Diels-Alder reaction catalyzed by novel chiral dibenzo[a, c]cycloheptadiene bis(oxazoline) metal complexes.

Fu, Bin; Du, Da-Ming*.

Chinese J. Chem., **2003**, 21(6), 597-599.

29) New advances of organic synthetic reactions and catalytic asymmetric reaction in ionic liquid media.

Du, Da-Ming*; Chen, X.; Hua, Wen-Ting.

Chinese J. Org. Chem. **2003**, 23(4), 331-343.

30) Studies on molecular recognition of amino acid derivatives by macrocyclic chiral phosphoramides.

Du, Da-Ming*; Hua, Wen-Ting.

Chem. J. Chinese Univ. **2003**, 24(3), 442-448.

31) Synthesis and Crystal Structure of *N*-(1'-Phenyl-2'-hydroxyethyl)-2,3-naphthylenedicarboximide.

Wang, Zhan-Yue; Du, Da-Ming*; Wu, Di; Hua, Wen-Ting, Jin, Xiang-Lin.

Chem. Res. Chin. Univ., **2003**, 19(2), 160-164.

32) Reinvestigation the reaction of salicyclic chloride with salicyclic amide and X-ray crystal structure of a new macrocyclic polyester.

Du, Da-Ming*; Chen, Xiao; Hua, Wen-Ting; Jin, Xiang-Lin.

Chinese J. Struct. Chem. **2003**, 22(5), 452-457.

33) Synthesis and crystal structure of novel chiral *o*-hydroxyphenyloxazoline metal complexes.

Wu, Hai-Chen; Du, Da-Ming; Hua, Wen-Ting; Jin, Xiang-Lin.

Chinese J. Struct. Chem. **2003**, 22(2), 155-160.

34) Synthesis of Novel Chiral Dibenzo[a, c]cycloheptadiene Bis(oxazoline) and Catalytic Asymmetric Reactions.

Fu, Bin; Du, Da-Ming*; Wang, Jian-Bo.

Chinese J. Org. Chem. **2003**, 23(suppl.), 27.

35) Synthesis and Catalytic Asymmetric Reaction of Chiral Pyridine Prolinol Derivatives.

Chen, Xiao; Zhang, Yong-Xin; Du, Da-Ming*; Hua, Wen-Ting.

Chinese J. Org. Chem. **2003**, 23(suppl.), 25-26.

36) Fragmentation mechanisms of polyamides containing N-methylpyrrole and N-methylimidazole by electrospray ionization tandem mass spectrometry

Yuan G, Tang FL, Zhu CJ, et al.

RAPID COMMUN MASS SP 17 (17): 2015-2018 **2003**

37) Synthesis and photoinduced DNA cleaving activity of hairpin polyamide-chlorobenzenesulfonyl conjugate

Tang FL, Yuan G, Wang J

PHOTOCHEM PHOTOBIOOL 78 (2): 175-179 AUG **2003**

38) Synthesis of DNA-recognizing polyamides containing N-methylpyrrole and N-methylimidazole

Yuan G, Tang FL

ARKIVOC : 32-37 Part 2 **2003**

39) Monitoring the synthetic reaction of a polyamide/peptide conjugate using electrospray ionization mass spectrometry

Zhu CJ, Yang XL, Cao SX, Yan Liu, Gu Yuan, et al.

RAPID COMMUN MASS SP 17 (8): 825-831 **2003**

- 40) Interactions of calf thymus DNA with short chain oligoamides
Du WH, Wang BH, Li ZF, Gu Yuan, et al.
THERMOCHIM ACTA 395 (1-2): 257-263 JAN 3 2003
- 41) Recent progress in DNA recognition molecules
Zhou J, Yuan G
CHINESE J ORG CHEM 23 (6): 526-541 JUN 2003
- 42) Synthesis and cleaving activity of DNA photocleaver containing bromoacetophenone
Li LH, Liu D, Tang FL, Yuan Gu, et al.
CHEM J CHINESE U 24 (8): 1430-1431 AUG 2003
- 43) .
, 2003, 23(1), 1-9.
- 44) Diastereospecific synthesis of (S,S)-2-substituted-4,4-diphenyl-3,1-oxazabicyclo [3.3.0]octanes.
Zuo, Gang; Zhang, Qihan; Xu, Jiaxi.
Heteroat. Chem., 2003, 14(1), 42-45.
- 45) Mass spectral fragmentation of (S,S)-2-substituted-4,4-diphenyl-3,1-oxazabicyclo [3.3.0]octanes: Ring contraction of pyrrolidine and 1,3-oxazolidine in mass spectrometry.
Xu, Jiaxi*, Zuo, Gang.
Rapid Commun. Mass Spectrom., 2003, 17(14), 1651-1656.
- 46) Preparation of high optically pure linear secondary alcohols via asymmetric reduction of prochiral ketones by borane.
Xu, Jiaxi.; Su, Xianbin; Zhang, Qihan.
Tetrahedron: Asymmetry, 2003, 14(13), 1781-1786.
- 47) Specific synthesis of azeto[1,2-d][1,5]benzothiazepin/diazepin-1-ones.
Huang, Xu; Xu, Jiaxi.
Heteroat. Chem., 2003, 14(6), 564-569.
- 48) Total Synthesis of Wedelolactone
Chuang Chuang Li, Zhi Xiang Xie, Yan Dong Zhang, Jia Hua Chen, and Zhen Yang
J. Org. Chem., 2003, 68, 8500-8504.

- 49) Total Synthesis of Methyl Protodioscin: A Potent Agent with Antitumor Activity
Mao S. Cheng, Qian L. Wang, Quan Tian, Hong Y. Song, Yong X. Liu, Qiang Li, Xin Xu, Hong D. Miao, Xin S. Yao, and Zhen Yang
J.Org.Chem., **2003**, 68, 3658-3662.
- 50) Development of Thiourea-Based Ligands for the Palladium-Catalyzed Bis(methoxycarbonylation) of Terminal Olefins
Mingji Dai, Cuihua Wang, Guangbin Dong, Jing Xiang, Tuoping Luo, Bo Liang, Jiahua Chen, and Zhen Yang
Eur.J. Org. Chem., **2003**, 4346-4348.
- 51) Diversity Oriented Synthesis and Branching Reaction Pathway to Generate Natural Product-like Compounds
Yun Liao, Youhong Hu, Jie Wu, Qiang Zhu, Maryann Donovan, Reza Fathi, and Zhen Yang
Current Medicinal Chemistry, **2003**, 10, 2285-2316.
- 52) Star-Shaped Polycyclic Aromatics Based on Oligothiophene-Functionalized Truxene: Synthesis, Properties, and Facile Emissive Wavelength Tuning
Jian Pei, Jin-Liang Wang, Xiao-Yu Cao, Xing-Hua Zhou, and Wen-Bin Zhang
J.Am.Chem. Soc., **2003**, 125, 9944-9945.
- 53) Extend -Conjugated Dendrimers Based on Truxene
Xiao-Yu Cao, Wen-Bin Zhang, Jin-Liang Wang, Xing-Hua Zhou, Hua Lu, and Jian Pei
J.Am.Chem.Soc., **2003**, 125, 12430-12431.
- 54) Synthesis and Relationships between the Structures and Properties of Monodisperse Star-Shaped Oligofluores
Xing-Hua Zhou, Ji-Chao Yan, and Jian Pei
Organic Letters, **2003**, Vol.5, No. 19, 3543-3546.
- 55) Application of DEPBT on the Synthesis of the Protected Dipeptides Containing Histidine with Unprotected Imidazole Group by Solution Method
SHEN, Hong-Yan; TIAN, Gui-Ling; ZHU, Wen-Jiang; HA, Sha; YE, Yun-Hua
Chin. J. Chem., **2003**, 21, 801-804.
- 56) Recent Progress in the Study on Enzymatic Reactions in Non-aqueous Media
SHEN, Hong-Yan; TIAN, Gui-Ling; YE, Yun-Hua
Chin. J. Org. Chem., **2003**, Vol. 23, No.3, 221-229.
- 57) Effect of the Properties of Organic Solvents and Water Content on the Enzymatic Synthesis of Derivatives of Dipeptides Containing *D*-Amino Acid Residue
SHEN, Hong-Yan; TIAN, Gui-Ling; YAN, Ai-Xin; JIA, Yan; HONG, Yi-Ying; YE,

Yun-Hua

ACTA CHIMICA SINICA, **2003**, Vol.61, No.7, 1144-1148.

58) Identification of Fatty Acids and Other Volatile Components of *Mulgiedium tatarica* by GC-MS Spectrometry

REN Yulin, ZHOU Yawei, YE Yunhua

Vol.39, No.2,

59) Application of Pac Ester in Thioester Method for the Synthesis of Cyclopentapeptides

LIU Mian, TIAN Gui-Ling, YE Yun-Hua

Chin. J. Chem., **2003**, 21, 864-870.

60) Isolation and Identification of Novel Compounds from *Mulgiedium tatarica* DC.

REN, Yu-Lin; ZHOU Ya-Wei; YE, Yun-Hua

Chin. J. Org. Chem., **2003**, Vol.23, Suppl., 39.

61) Determination of the concentration of nucleic acids based on light scattering of a complex formed with poly(allylamine hydrochloride)

Zhou YL, Li YZ

ANAL LETT 36 (13): 2835-2847 **2003**

62) Catalytical activities of reconstructed hemoglobin with different central ions in prosthetic group

Liu JY, Sun BW, Li YZ, et al.

CHEM RES CHINESE U 19 (3): 335-339 JUL **2003**

63) Molecularly imprinted polymer for pyrazinamide

Sun BW, Li YZ, Chang WB

ANAL LETT 36 (8): 1501-1509 **2003**

64) Study properties of molecular imprinting polymer using a computational approach

Wu LQ, Sun BW, Li YZ, et al.

ANALYST 128 (7): 944-949 **2003**

65) Picolinamide-Cu(Ac)(2)-imprinted polymer with high potential for recognition of picolinamide-copper acetate complex

Wu LQ, Li YZ

ANAL CHIM ACTA 482 (2): 175-181 APR 15 **2003**

66) Quantitative elucidation of the molecular mechanisms of hydroxyl radical quenching reactivity of phenolic compounds

Cheng ZY, Ren J, Yan GT, et al.

67) Determination of antioxidant activity of phenolic antioxidants in a Fenton-type reaction system by chemiluminescence assay

Cheng ZY, Yan GT, Li YZ, et al.

ANAL BIOANAL CHEM 375 (5): 376-380 FEB 2003

68) Establishment of a quantitative structure-activity relationship model for evaluating and predicting the protective potentials of phenolic antioxidants on lipid peroxidation

Cheng ZY, Ren J, Li YZ, et al.

J PHARM SCI 92 (3): 475-484 MAR 2003

69) Kinetic deoxyribose degradation assay and its application in assessing the antioxidant activities of phenolic compounds in a Fenton-type reaction system

Cheng ZY, Li YZ, Chang WB

ANAL CHIM ACTA 478 (1): 129-137 FEB 12 2003

70) Different Capillary Electrophoresis Modes and HPLC for the Separation of Xanthones

Tao Bo, Feng Liu, Ke An Li, and Huwei Liu*

JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES,
2003, 26(6), 993-1003.

71) Micellar Electrokinetic Chromatography Separation and Effects of Different Modifiers on Selectivity of pharmacologically active xanthones from Securidaca inappendiculata

Tao Bo, Xuedong Yang, Feng Liu, Ke An Li, Lizhen Xiu, Huwei Liu*,
J. Sep. Sci., **2003**, 26(1/2), 133-136.

72) Determination of Dissociation Constants of Ten Alkaloids by Capillary Zone Electrophoresis

Suxuan Gong, Xiaodan Su, Tao Bo, Huwei Liu*, Ke An Li,
J. Sep. Sci., **2003**, 26(6-7), 549-554.

73) Investigation of the effect of space environment on the contents of atropine and scopolamine in Datura metel by capillary zone electrophoresis

Tao Bo, Ke An Li, Huwei Liu*

J. Pharm. Biomad. Anal., **2003**, 31, 885-891.

74) Capillary electrophoretic behaviors of pharmacologically active xanthones from Securidaca inappendiculata with b-CD as a buffer additive

Tao Bo, Yongfa Huang, Xuedong Yang, Ke An Li, Huwei Liu*, Lizhen Xu

J. Chromatographic Science, **2003**, 41 4 ,182-186.

75) Optimized Separation of Isoquinoline Alkaloids in Thalictrum Herbal Medicine by Microemulsion Electrokinetic Chromatography

Yiqi Luo, Tao Bo, Meng Li, Suxuan Gong, Feng Liu, Ke An Li, Huawei Liu*,

J. Liquid. Chromatography & Related Technologies, **2003**, 26 (11) , 1719-1930.

76)

2003, 21 5 , 439-445.

77) Direct immunoassay estrone by capillary electrophoresis with laser-induced fluorescence detection

Ping Su, Xin-Xiang Zhang, Wen-Bao Chang

Electrophoresis, **2003**, 24, 3197-3201.

78) Application of Capillary Electrophoretic

84) Serum lysophosphatidic acid concentrations measured by dot immunogold filtration assay in patients with acute myocardial infarction

X. Chen, X.Y. Yang, N.D.Wang, C.Ding, Y.J.Yang, Z.J.You, Q.Su, & J.H. Chen*

Scandinavian Journal of Clinical & Laboratory Investigation, **2003**, 63, 497-504.

85) Synthesis of a Novel Antigen Containing P.

Xie Gui-Yang, Chen Liu-Min, Chen Jia-Hua, Jin Sheng

Chem.J.Chih.U., **2003**, Vol.24, No.6, 1037-1039.

86) Total Synthesis of Acyl- and Alkyl- LPA

Chen Jia-Hua, Zhang Yan-Dong

2003 39 2 151-157.

87) Effect of Temperature on the Enantioselectivity in the Oxazaborolidine-Catalyzed Asymmetric Reduction of Ketones. Noncatalytic Borane Reduction a Nonneglectable Factor in the Reduction System

Jiaxi Xu, Tiezheng Wei, and Qihan Zhang

J. Org. Chem., **2003**, 68(26), 10146 – 10151.

88) Simultaneous Separation and Determination of Five Bioactive Components in Traditional Chinese Medicinal Formula, Guanxin II, by HPLC

Zhihong Shi, Wenbao Chang

J.Liqu.Chromatogra. & R. Tech., **2003**, Vol.26, No.3, 469-482.

89)

, , , , ,
2003, 23, suppl. 11.

90) Novel and convenient method for the preparation of phosphonate peptides and phosphonamidate peptides.

Xu, Jiaxi; Fu, Nanyan; Gao, Yuanhe; Zhang, Qihan; Duan, Lifang

, **2003**, 23, suppl. 12.

91) A general route to synthesis of 1-substituted taurines.

Xu, Jiaxi; Xu, Shu; Zhang, Qihan.

, **2003**, 23, suppl. 12.

92)

2003 Vol.21, No.6, 535-540.

93) Sensitive ELISA for Determination of Serum E₂ Using a new Tracer E₂-Biotin

Jinfu Zhao, Yongcheng Wang, Jianqiu Mi, Yuanzong Li and Wenbao Chang

J.Immunoassay & Immunochemistry, **2003**, Vol.24, No.4, 369-382.

94)

2003 31 2 129-133.

95) A

2003 Vol.24, No.7, 1204-1206.