



生物有机与分子工程教育部 重点实验室

2004 年度工作报告

2005 年 1 月

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附件一、2004 年度获奖情况
附件二、2004 年度来访讲学
附件三、2004 年度重点实验室发表论文

附件一、2004 年度获奖情况

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附件二、2004 年度来访讲学

1 Takahiko Akiyama
Enantioselective addition and cycloaddition reactions with imines; chiral Lewis Acid catalyst and chiral Bronsted acid catalyst.
2004 8 27

2 Dieter Fenske Universität Karlsruhe()
Transition Metal Clusters with Main Group Elements as Ligands
2004 5 17

3 Pierre H. Dixneuf CNRS-Universite de Rennes, France
i. New European System of University Education and International Master in English in Rennes
ii. Recent Achievements of Ruthenium Catalysts for Fine Chemicals Production: Alkene Metathesis and Atom Economy Reactions.
2004 4 14

4) M. P. Doyle
New Advances in Catalysis with Dirhodium Compounds
2004 7 2

5 Joan S. Valentine UCLA
Why is Abnormal Copper-Zinc Superoxide Dismutase Toxic
2004 7 2

6 Todd B. Marder Department of Chemistry, University of Durham, England

Transition Metal Catalysed Borylations Including C-H Bond Functionalisation
2004 2 26

7 Martin Newcomb LAS Distinguished Professor; Department of Chemistry; University of Illinois
at Chicago
Laser Flash Photolysis Studies of Models for Radical Rearrangements in Coenzyme B12-Dependent
Enzymes
2004 5 14

8 Yoichi Sasaki ;
Metal Cluster Complexes as Mediators of Electronic Communications from Solution Properties to Surface
Modulators
2004 5 27

9) Richard G. Weiss ; Department of Chemistry, Georgetown University, USA
Photochemical and Photophysical Studies in Polyolefinic Media
2004 6 2

10) Yongmin Zhang ; Ecole Normale Supérieure, Département de Chimie, UMR CNRS France
Carbohydrate Chemistry and Drug Discovery
2004 2 26

11) ; ,
Developing Green Chemistry - Organometallic Reactions in Water and other Alternative Media
2004 5 12

12) ;
2004 9 8

13) ;
2004 6 8

14) ; Merck & Co., Inc. USA
An Insider's View of Process Research: The Search for the Ultimate Synthesis
2004 12 10

15 ; Royal Society University Research Fellow, University of Cambridge UK
Elucidation and exploitation of reaction pathways: reduction, oxidation and C-H activation
2004 1 5

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- 2) Stereoselective Reduction of β -Hydroxy α -Ketoesters: A Concise Synthesis of *anti* - α,β -Dihydroxy Esters
Mingyi Liao, Wengang Yao and Jianbo Wang
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Weifeng Shi, Bo Zhang, Bing Li, Feng Xu, Fengping Xiao, Jian Zhang, Shiwei Zhang, Jianbo Wang
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- 4) An Efficient and Mild Preparation of Vinyl Diazo Carbonyl Compounds
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- 5) Linear Free Energy Correlation Analysis on the Electronic Effects of Rh(II) Carbene O-H Insertion
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- 6) Reaction of oxazirconacycloheptenes with aldehydes mediated by CuCl: one-pot synthesis of tetrahydrofuran derivatives from four different components involving two molecules of the same or different aldehydes, an ethylene and an alkyne
Changjia Zhao, Jiang Lu, Zhiping Li, Zhenfeng Xi
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- 7) Reactions of 1,4-dilithiobutadienes with isothiocyanates: preparation of iminocyclopentadiene derivatives via cleavage of the C = S double bond of a $\text{RN}=\text{C}=\text{S}$ molecule
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- 8) Concise synthesis of stereodefined dienols and cyclopentadienes via direct addition of 1-bromomagnesiobutadienes and 1-lithiobutadienes to carbonyl compounds
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