2011 年发表的文章

1. Low-temperature oxidation of ethanol over a $Mn_{0.6}Ce_{0.4}O_2$ mixed oxide
   Huaju Li, Gongshin Qi, Tana, Xiaojing Zhang, Xiumin Huang, Wei Li, Wenjie Shen*
   Applied Catalysis B: Environmental, 103 (2011) 54–61

2. Morphological impact of manganese–cerium oxides on ethanol oxidationw
   Huaju Li, Gongshin Qi, Tana, Xiaojing Zhang, Wei Li, Wenjie Shen*
   Catal. Sci. Technol., 1（2011） 1677–1682

3. Stability improvement of ZrO_2-doped MnCeOx catalyst in ethanol oxidation
   Huaju Li, Tana, Xiaojing Zhang, Xiumin Huang, Wenjie Shen*
   Catalysis Communications, 12 (2011) 1361–1365

4. Glycerol Hydrogenolysis over Co Catalysts Derived from a Layered Double Hydroxide Precursor
   Xiaohui Guo, Yong Li , Wei Song , Wenjie Shen*
   Catal. Lett., 141 (2011) 1458–1463

5. Morphology-dependent nanocatalysis: metal particles
   Yong Li, Qiying Liu, Wenjie Shen*
   Dalton Trans., 40 (2011) 5811-5826

6. Hydrogen production from ethanol steam reforming over Ir/CeO_2 catalysts: Enhanced stability by PrOx promotion
   Fagen Wang, Weijie Cai, He l̀e`ne Provendier, Yves Schuurman, Claude Descorme, Claude Mirodatos , Wenjie Shen *
   International Journal o f Hydrogen Energy, 3 6 (2 0 1 1) 1 3 5 6 6 -1 3 5 7 4

7. Influence of Au particle size on Au/CeO_2 catalysts for CO oxidation
   Tana, Fagen Wang, Huaju Li, Wenjie Shen*
   Catalysis Today, 175 (2011) 541– 545

8. A Quantitative Electron Tomography Study of Ruthenium Particles on the Interior and Exterior Surfaces of Carbon Nanotubes
Heiner Friedrich, Shujing Guo, Petra E. de Jongh, Xiulian Pan, Xinhe Bao, Krijn P. de Jong*
ChemSusChem,4 (2011) 957 – 963

9. Al-RUB-41: a shape-selective zeolite catalyst from a layered silicate
Bilge Yilmaz, Ulrich Muller*, Bart Tijsebaert, Dirk De Vos, Bin Xie, Feng-Shou Xiao, Hermann Gies, Weiping Zhang, Xinhe Bao, Hiroyuki Imaig and Takashi Tatsumig
Chem. Commun., 47（2011） 1812–1814

10. CeO_2 对催化剂银物种及 CO 氧化性能的影响

曲振平，张晓东，陈丹，李新勇，闻梦，王奕，马丁，吴晶晶

CHEMICAL JOURNAL OF CHINESE UNIVERSITIES，7（2011） 1605-1609

11. Comparative studies of silver based catalysts supported on different supports for the oxidation of formaldehyde
Dan Chen, Zhenping Qua*, Shijin Shen, Xinyong Li, Yong Shi, Yi Wang, Qiang Fu, Jingjing Wu
Catalysis Today, 175 (2011) 338– 345

12. Controlled growth of metal-free vertically aligned CNT arrays on SiC surfaces
Zhen Wang, Qiang Fu, Xuejun Xu, Hongbo Zhang, Wenliang Li, Min Gao, Dali Tan, Xinhe Bao*
Chemical Physics Letters, 503 (2011) 247–251

13. Density Functional Calculations on the Distribution, Acidity, and Catalysis of TiIV and TiIII Ions in MCM-22 Zeolite
Gang Yang*, Lijun Zhou, Xianchun Liu, Xiuwen Han, Xinhe Bao*
Chem. Eur. J. 17 (2011)1614 – 1621

14. Direct conversion and NMR observation of cellulose to glucose and

5-hydroxymethylfurfural (HMF) catalyzed by the acidic ionic liquids
Feng Jiang, Qingjun Zhu, Ding Ma*, Xiumei Liu, Xiuwen Han
Journal of Molecular Catalysis A: Chemical 334 (2011) 8–12

15. Dispersion of metal nanoparticles on carbon nanotubes with few surface oxygen functional groups
Shujing Guo, Xiulian Pan*, Liang Yu, Xinhe Bao*
Materials Letters， 65 (2011) 1522–1524

16. Enhanced Catalytic Activity of Sub-nanometer Titania Clusters Confined inside Double-Wall Carbon Nanotubes
Hongbo Zhang, Xiulian Pan*, Jingyue (Jimmy) Liu, Weizhong Qian, Fei Wei, Yuying Huang, Xinhe Bao*
ChemSusChem, 4 (2011) 975 – 980

17. Exploring the void structure and activity of RUB-39 based expanded materials using the hydroconversion of decane
Bart Tijsebaert, Mathieu Henry, Hermann Gies, Feng-Shou Xiao, Weiping Zhang, Xinhe Bao, Hiroyuki Imai, Takashi Tatsumi, Ulrich Müller, Bilge Yilma, Pierre Jacobs, Dirk De Vos*
Journal of Catalysis, 282 (2011) 47–53

18. FeN nanoparticles confined in carbon nanotubes for CO hydrogenation
Zhiqiang Yang, Shujing Guo, Xiulian Pan*, Junhu Wang, Xinhe Bao*
Energy Environ. Sci., 4 (2011) 4500–4503

19. Folate and iron difunctionalized multiwall carbon nanotubes as dual-targeted drug nanocarrier to cancer cells
Ruibin Li, Ren'an Wu*, Liang Zhao, Zhengyan Hu, Shujing Guo, Xiulian Pan, Hanfa Zou *
C A R B ON, 4 9 (2 0 1 1) 1 7 9 7 –1 8 0 5

20. Formation of identical-size graphene nanoclusters on Ru(0001)
Yi Cui, Qiang Fu,* Hui Zhang and Xinhe Bao*
Chem. Commun., 47 (2011) 1470–1472

21. Interlayer Expansion of the Layered Zeolite Precursor RUB-39: A

Universal Method To Synthesize Functionalized Microporous Silicates
Hermann Gies*, Ulrich M€uller, Bilge Yilmaz, Takashi Tatsumi, Bin Xie, Feng-Shou Xiao, Xinhe Bao, Weiping Zhang, Dirk De Vos
Chem. Mater. , 23 (2011) 2545–2554

22. Interlayer-Expanded Microporous Titanosilicate Catalysts with Functionalized Hydroxyl Groups
Feng-Shou Xiao*, Bin Xie, Haiyan Zhang, Liang Wang, Xiangju Meng, Weiping Zhang, Xinhe Bao, Bilge Yilmaz, Ulrich M ller, Hermann Gies, Hiroyuki Imai, Takashi Tatsumi, Dirk De Vos
ChemCatChem, 3 (2011) 1442 – 1446

23. Layered-Carbon-Stabilized Iron Oxide Nanostructures as Oxidation Catalysts
Yongjun Gao, Ding Ma*, Gang Hu, Peng Zhai, Xinhe Bao, Bo Zhu, Bingsen Zhang, Dang Sheng Su*
Angew. Chem. Int. Ed., 50 (2011)10236 –10240

24. Oscillation of Surface Structure and Reactivity of PtNi Bimetallic atalysts with Redox Treatments at Variable Temperatures
Rentao Mu, Xiaoguang Guo, Qiang Fu*,and Xinhe Bao*
J. Phys. Chem. C, 15 (2011), 20590–20595

25. Oxygen reduction reaction mechanism on nitrogen-doped graphene: A density functional theory study
Liang Yu, Xiulian Pan, Xiaoming Cao, P. Hu*, Xinhe Bao*
Journal of Catalysis, 282 (2011) 183–190

26. Pb intercalation underneath a graphene layer on Ru(0001) and its effect on graphene oxidation
Li Jin, Qiang Fu*, Rentao Mu, Dali Tan, Xinhe Bao*
Phys. Chem. Chem. Phys., 13(2011) 16655–16660

27. p–p Interaction intercalation of layered carbon materials with metallocene
Yongjun Gao, Gang Hu, Wei Zhang, Ding Ma*, Xinhe Bao
Dalton Trans., 40 (2011) 4542–4547

28. Reduced graphene oxide as a catalyst for hydrogenation of nitrobenzene at room temperature
Yongjun Gao, Ding Ma*, Chunlei Wang, Jing Guan and Xinhe Bao*
Chem. Commun., 47 (2011) 2432–2434

29. Rh-Decorated Cu Alloy Catalyst for Improved C_2 Oxygenate Formation from Syngas
Yong-Hui Zhao, Ming-Mei Yang, Dapeng Sun, Hai-Yan Su*, Keju Sun, Xiufang Ma, Xinhe Bao, Wei-Xue Li*
J. Phys. Chem. C, 115 (2011)18247–18256

30. Shape-selective synthesis of methylamines over the RRO zeolite Al-RUB-41
Bart Tijsebaert, Bilge Yilmaz, Ulrich Müller, Hermann Gies, Weiping Zhang, Xinhe Bao, Feng-Shou Xiao, Takashi Tatsumi, Dirk De Vos*
Journal of Catalysis, 278 (2011) 246–252

31. Size effect of graphene on electrocatalytic activation of oxygen
Dehui Deng, Liang Yu, Xiulian Pan*, Shuang Wang, Xiaoqi Chen, P. Hu, Lixian Sun, Xinhe Bao*
Chem. Commun., 47 (2011)10016–10018

32. SSZ-13 和 RUB-50 分子筛上甲醇制烯烃的对比研究
李鹏，张维萍，韩秀文，包信和
Chinese Journal of Catalysis，2（2011）293-298

33. Structure evolution of Pt–3d transition metal alloys under reductive and oxidizing conditions and effect on the CO oxidation: a first-principles study
Hai-Yan Su, Xiang-Kui Gu, Xiufang Ma, Yong-Hui Zhao, Xin-He Bao, Wei-Xue Li*
Catalysis Today, 165 (2011) 89–95

34. Synergetic Effect of Surface and Subsurface Ni Species at Pt-Ni Bimetallic Catalysts for CO Oxidation
Rentao Mu, Qiang Fu*, Hong Xu, Hui Zhang, Yuying Huang, Zheng Jiang, Shuo Zhang, Dali Tan, Xinhe Bao*

J. Am. Chem. Soc., 2011, 133, 1978–1986

35. The Effects of Confinement inside Carbon Nanotubes on Catalysis
Xiulian Pan, Xinhe Bao*
ACCOUNTS OF CHEMICAL RESEARCH, 8 (2011) 553-562

36. Toward N-Doped Graphene via Solvothermal Synthesis
Dehui Deng, Xiulian Pan*, Liang Yu, Yi Cui, Yeping Jiang, Jing Qi, Wei-Xue Li, Qiang Fu, Xucun Ma, Qikun Xue, Gongquan Sun, and Xinhe Bao*
Chem. Mater., 23 (2011)1188–1193

37. Structurally Designed Synthesis of Mechanically Stable Poly(benzoxazine-co-resol)-Based Porous Carbon Monoliths and Their Application as High-Performance CO2 Capture Sorbents
Guang-Ping Hao, Wen-Cui Li, Dan Qian, Guang-Hui Wang, Wei-Ping Zhang, Tao Zhang, Ai-Qin Wang, Ferdi Sch€uth, Hans-Josef Bongard, An-Hui Lu*
J. Am. Chem. Soc. 133 (2011) 11378–11388

38. 氮掺杂碳纳米管对其负载的 Ru 催化剂上合成氨的促进作用
高伟洁，郭淑静，张洪波，潘秀莲，包信和
Chinese Journal of Catalysis, 8 (2011) 1418-1423

39. 3-D flowerlike architectures constructed by ultrathin perpendicularly aligned mesoporous nanoflakes for enhanced asymmetric catalysis
Lei Zhang, Yanan Guo, Juan Peng, Xiao Liu, Pei Yuan, Qihua Yang*, Can Li*
Chem. Commun., 47 (2011) 4087–4089

40. 29Si NMR and UV-Raman Investigation of Initial Oligomerization Reaction Pathways in Acid-Catalyzed Silica Sol-Gel Chemistry
Anouschka Depla, David Lesthaeghe, Titus S. van Erp, Alexander Aerts, Kristof Houthoof, Fengtao Fan, Can Li, Veronique Van Speybroeck, Michel Waroquier, Christine E. A. Kirschhock, and Johan A. Martens*
J. Phys. Chem. C,115(2011) 3562–3571

41. A visible-light-driven transfer hydrogenation on CdS nanoparticles combined with iridium complexes
Jun Li, Jinhui Yang, Fuyu Wen, Can Li*
Chem. Commun., 47 (2011) 7080–7082

42. Aerobic oxidation of alcohols over hydrotalcite-supported gold nanoparticles: the promotional effect of transition metal cations
Peng Liu, Yejun Guan, Rutger A. van Santen, Can Li* and Emiel J. M. Hensen*
Chem. Commun., 47 (2011) 11540–11542

43. Charge recombination reduction in dye-sensitized solar cells by depositing ultrapure TiO_2 nanoparticles on "inert" $BaTiO_3$ films
Min Zhong, Jingying Shi, Wenhua Zhang, Hongxian Han, Can Li*
Materials Science and Engineering B, 176 (2011) 1115– 1122

44. Colloidal synthesis and characterization of CdSe/CdTe core/shell nanowire heterostructures
Sheng Liu, Wen-HuaZhang*, CanLi*
Journal of Crystal Growth, 336 (2011) 94–100

45. Crystal Facet Dependence ofWater Oxidation on $BiVO_4$ Sheets under Visible Light Irradiation
Donge Wang, Hongfu Jiang, Xu Zong, Qian Xu, Yi Ma, Guoling Li, and Can Li*
Chem. Eur. J. 17 (2011) 1275 – 1282

46. Recyclable chiral diamine–polyoxometalate (POM) acids catalyzed asymmetric direct aldol reaction of aromatic aldehydes with long-chain aliphatic ketones
Qiang Gao, Sheng-Mei Lu, Yan Liu*, Can Li*
Tetrahedron Letters, 52 (2011) 3779–3781

47. Effect of Metal Doping on Electronic Structure and Visible Light Absorption of $SrTiO_3$ and $NaTaO_3$ (Metal = Mn, Fe, and Co)
Xin Zhou* Jingying Shi, and Can Li
J. Phys. Chem. C,115(2011) 8305–8311

48. Effect of Substituted Groups on the Electronic Circular Dichroism of Aldols: A Combined Experimental and Time-Dependent DFT Study
Guanna Li, Guoqing Jia, Qiang Gao, Zhaochi Feng* , and Can Li*
J. Phys. Chem. C, 115 (2011) 972–981

49. Effect of Water on Active Iron Sites for N_2O Decomposition over Fe/ZSM-5 Catalyst
Haian Xia, Keqiang Sun, Zhaochi Feng, and Can Li*
J. Phys. Chem. C, 115 (2011) 542–548

50. Encapsulation of chiral Fe(salan) in nanocages with different microenvironments for asymmetric sulfide oxidation
Bo Li, Shiyang Bai, Peng Wang, Hengquan Yang, Qihua Yang* and Can Li*
Phys. Chem. Chem. Phys., 13 (2011) 2504–2511

51. Enhancement of the Performance of a Platinum Nanocatalyst Confined within Carbon Nanotubes for Asymmetric Hydrogenation
Zhijian Chen, Zaihong Guan, Mingrun Li, Qihua Yang, and Can Li*
Angew. Chem. Int. Ed., 50 (2011) 4913 –4917

52. Facile Synthesis of Straight and Branched CdTe Nanowires Using CdO as Precursor
Sheng Liu, Chunyan Yang, Wen-Hua Zhang*, and Can Li*
J. Nanosci. Nanotechnol., 12(2011) 11181–11184

53. Hydrodesulfurization of 4,6-DMDBT on a multi-metallic sulfide catalyst with layered structure
Lu Wang, Yongna Zhang, Yuliang Zhang, Peng Liu, Hongxian Han, Min Yang, Zongxuan Jiang*, Can Li*
Applied Catalysis A: General, 394 (2011) 18–24

54. Hydrophobic Surface Induced Activation of Pseudomonas cepacia Lipase Immobilized into Mesoporous Silica
Qianru Jin, Guoqing Jia, Yanmei Zhang, Qihua Yang, and Can Li*
Langmuir, 27 (2011) 12016–12024

55. Microstructure evolution of CuInSe2 thin films prepared by single-bath electrodeposition
Tong Ren, RuiYu, MinZhong, JingyingShi, CanLi*
Solar Energy Materials & Solar Cells, 95 (2011) 510–520

56. Oxidative Desulfurization of Fuel Oils
JIANG Zongxuan, LÜ Hongyinga, ZHANG Yongna, LI Can*
CHINESE JOURNAL OF CATALYSIS, 5 (2011) 707-715

57. pH-Dependent Chirality of L-Proline Studied by Raman Optical Activity and Density Functional Theory Calculation
Shi Qiu, Guanna Li, Peng Wang, Jun Zhou, Zhaochi Feng,* and Can Li*
J. Phys. Chem. A, 115 (2011) 1340–1349

58. Phosphotungstic Acid Encapsulated in Metal–Organic Framework as Catalysts for Carbohydrate Dehydration to 5-Hydroxymethylfurfural
Yanmei Zhang, Volkan Degirmenci, Can Li*, and Emiel J. M. Hensen*
ChemSusChem, 2011, 4, 59–64

59. Photocatalytic H_2 production on hybrid catalyst system composed of inorganic semiconductor and cobaloximes catalysts
Fuyu Wen, Jinhui Yang, Xu Zong, Baojun Ma, Donge Wang, Can Li*
Journal of Catalysis, 281 (2011) 318–324

60. Promoting the formation and stabilization of human telomeric G-quadruplex DNA, inhibition of telomerase and cytotoxicity by phenanthroline derivatives
Lihua Wang, Ye Wen, Jie Liu, Jun Zhou, Can Li and Chunying Wei*
Org. Biomol. Chem., 9 (2011) 2648-2653

61. Recyclable enamine catalysts for asymmetric direct cross-aldol reaction of aldehydes in emulsion media
Qiang Gao, Yan Liu, Sheng-Mei Lu, Jun Li and Can Li*
Green Chem.,13 (2011) 1983

62. Selective Hydrogenation of Acetylene over a MoP Catalyst

ZHOU Guilin, WANG Puguang, JIANG Zongxuan, YING Pinliang, LI Can*
Chin. J. Catal., 32（2011） 27–30

63. Solution-Phase Synthesis and Characterization of Single-Crystalline SnSe Nanowires
Sheng Liu, Xiaoyang Guo, Mingrun Li, Wen-Hua Zhang,* Xingyuan Liu,* and Can Li*
Angew. Chem. Int. Ed., 50 (2011) 12050 –12053

64. Spectroscopic Evidence of Extra-Framework Heterometallic Oxo-Clusters in Fe/Ga-ZSM-5 Catalysts
Haian Xia, Samuel D. Fleischman, Can Li*, and Susannah L. Scott*
J. Phys. Chem. Lett., 2 (2011) 190–195

65. Sputtered Highly Ordered TiO_2 Nanorod Arrays and Their Applications as the Electrode in Dye-Sensitized Solar Cells
Lijian Meng*, Aifeng Ma, Pinliang Ying, Zhaochi Feng, and Can Li*
J. Nanosci. Nanotechnol.， 11(2011) 929-934

66. Stability and reactivity of active sites for direct benzene oxidation to phenol in Fe/ZSM-5: A comprehensive periodic DFT study
Guanna Li, Evgeny A. Pidko, Rutger A. van Santen, Zhaochi Feng, Can Li*, Emiel J.M. Hensen*
Journal of Catalysis, 284 (2011) 194–206

67. Synthesis, Structure, and Photoluminescent Properties of Metal Organic Coordination Polymers Assembled with Bithiophenedicarboxylic Acid
Jiao Zhao, Xiu-Li Wang, Xin Shi, Qi-Hua Yang*, Can Li*
Inorg. Chem., 50 (2011) 3198–3205

68. Ultra-deep Oxidative Desulfurization of Fuel Oil Catalyzed by Dawson-type Polyoxotungstate Emulsion Catalysts
ZHANG Yongna, WANG Lu, ZHANG Yuliang, JIANG Zongxuan, LI Can*
Chin. J. Catal.,32(2011) 235–239

69. AM-6 分子筛的快速合成及原子线形成机理
郭美玲，范峰滔，郭强，冯兆池，李灿
Chemical Journal of Chinese Universities, 32 (2011) 721-725

70. UV Raman spectroscopic study on the surface phase of ZrO_2 modified with Nd_2O_3
Jing Zhang*, Song Yan, Mengqiong Yuan, Xiang Wang, Can Li
Materials Letters, 65 (2011) 201–204

71. UV–Raman and NMR Spectroscopic Studies on the Crystallization of Zeolite A and a New Synthetic Route
Limin Ren, Caijin Li, Fengtao Fan, Qiang Guo, Desheng Liang, Zhaochi Feng, Can Li*, Shougui Li, and Feng-Shou Xiao*
Chem. Eur. J., 17 (2011) 6162 – 6169

72. Visible emission characteristics from different defects of ZnS nanocrystals
Xiuli Wang, Jianying Shi, Zhaochi Feng, Mingrun Li and Can Li*
Phys. Chem. Chem. Phys., 13 (2011) 4715–4723

73. Enhancing hydrogen production activity and suppressing CO formation from photocatalytic biomass reforming on Pt/TiO2 by optimizing anatase–rutile phase structure
Qian Xu, Yi Ma, Jing Zhang, Xiuli Wang, Zhaochi Feng, Can Li*
Journal of Catalysis, 278 (2011) 329–335

74. 介孔载体负载 Pt 催化剂上 α -酮酸酯的不对称氢化
陈志坚, 李晓红, 李 灿
Chin. J. Catal., 32 (2011) 155–161

75. 手性伯胺催化剂用于顺式选择性的不对称 Cross-Aldol 反应
高 强, 刘 奘, 卢胜梅, 李 灿
Chin. J. Catal., 32 (2011) 899–903

76. An investigation of the surface intermediates of H_2-SCR of NOx over Pt/H-FER

Shufang Yang, Xinping Wang*, Wenling Chu, Zhuonan Song, Shuai Zhao
Applied Catalysis B: Environmental, 107 (2011) 380– 385

77. An Organophilic Pervaporation Membrane Derived from Metal–Organic Framework Nanoparticles for Efficient Recovery of Bio-Alcohols
Xin-Lei Liu, Yan-Shuo Li,* Guang-Qi Zhu, Yu-Jie Ban, Long-Ya Xu, and Wei-Shen Yang*
Angew. Chem. Int. Ed., 50 (2011) 10636 –10639

78. Capillary supported ultrathin homogeneous silicalite-poly(dimethylsiloxane) nanocomposite membrane for bio-butanol recovery
Xinlei Liu, Yanshuo Li*, Yi Liu, Guangqi Zhua, Jie Liua, Weishen Yanga*
Journal of Membrane Science, 369 (2011) 228–232

79. Interfacial Phenomena in Mixed Conducting Membranes: Surface Oxygen Exchange- and Microstructure-Related Factors
Xuefeng Zhu, Weishen Yang
Solid State Electrochemistry: Electrodes, Interfaces and Ceramic Membranes, Chapter 2.

80. Critical Factors Affecting Oxygen Permeation Through Dual-phase Membranes
Xuefeng Zhu and Weishen Yang*
Inorganic, Polymeric and Composite Membranes, Chapter 12

81. Effective manipulation of the microstructure of zeolite film by hydrothermal pretreatment
Yi Liu, Yanshuo Li, Weishen Yang
J Mater Sci, 46 (2011) 3942–3951

82. Effects of sintering temperature on properties of dual-phase oxygen permeable membranes
Qiming Li , Xuefeng Zhua*, Yufeng He, You Conga, Weishen Yang*
Journal of Membrane Science, 367 (2011) 134–140

83. High reversible capacity of SnO_2/graphene nanocomposite as an anode material for lithium-ion batteries
Peichao Lian, Xuefeng Zhu, Shuzhao Liang, Zhong Li, Weishen Yang, Haihui Wang*
Electrochimica Acta, 56 (2011) 4532–4539

84. Hydrothermal Stability of Meso-microporous Composites and Their Catalytic Cracking Performance
HAN Wei, JIA Yuxin, XIONG Guoxing*, YANG Weishen
Chin J Catal, 32 (2011) 418–427

85. Nanopores array of ordered mesoporous carbons determine Pt's activity towards alcohol electrooxidation
Chaoxiong He, Yeru Liang, Ruowen Fu, Dingcai Wu*, Shuqin Song* and Rui Cai
J. Mater. Chem., 21 (2011) 16357

86. Novel $Mn_{1.5}Co_{1.5}O_4$ spinel cathodes for intermediate temperature solid oxide fuel cells
Huanying Liu, Xuefeng Zhu*, Mojie Cheng, You Cong and Weishen Yang*
Chem. Commun., 47 (2011) 2378–2380

87. Novel $SrCo_{1-2x}(Fe,Nb)xO_{3-\delta}$ (x=0.05, 0.10) oxides targeting CO_2 capture and O_2 enrichment: Structural stability and oxygen sorption properties
Materials Letters, 65 (2011) 2858–2860

88. Phase-Segregation-Induced Self-Assembly of Anisotropic MFI Microbuilding Blocks into Compact and Highly b-Oriented Monolayers
Yi Liu, Yanshuo Li, and Weishen Yang*
Langmuir, 27 (2011) 2327–2333

89. Preparation of high selectivity silicalite-1 membranes by two-step in situ hydrothermal synthesis
CHEN HongLiang, LI YanShuo, YANG JiSong, HOU YongXia, SONG XueYing, HU XiaoJun*, YANG WeiShen
Chinese Sci. Bull., 56 (2011) 3578-3582

90. Superior cycle performance of Sn@C/graphene nanocomposite as an anode material for lithium-ion batteries
Shuzhao Liang, XuefengZhu, PeichaoLian , WeishenYang, HaihuiWang*
Journal of Solid State Chemistry,184(2011)1400–1404

91. The Role of A-Site Ion Nonstoichiometry in the Oxygen Absorption Properties of $Sr_{11x}Co_{0.8}Fe_{0.2}O_3$ Oxides
Yufeng He, Xuefeng Zhu and Weishen Yang
AIChE Journal, 57 (2011) 87-95

92. Unsteady-state permeation and surface exchange of dual-phase membranes
Xuefeng Zhu*, Huanyin Liu, Qiming Li, You Cong, Weishen Yang*
Solid State Ionics, 185 (2011) 27–31

93. Acid controlled diastereoselectivity in asymmetric aldol reaction of cycloketones with aldehydes using enamine-based organocatalysts
Jinsuo Gao, Shiyang Bai, Qiang Gao, Yan Liu* and Qihua Yang*
Chem. Commun., 47 (2011) 6716–6718

94. Chiral salen-metal derivatives of polyoxometalates with asymmetric catalytic and photocatalytic activities
Xing Meng, Chao Qin, Xin-Long Wang*, Zhong-Min Su*,Bo Li and Qi-Hua Yang*
Dalton Trans., 40 (2011) 9964-9966

95. Organosilane-Assisted Transformation from Core Shell to Yolk Shell Nanocomposites
Yan Yang, Jian Liu, Xiaobo Li, Xiao Liu, and Qihua Yang*
*Chem. Mater. 23 (2011) 3676–36*84

96. Organosilica nanotubes: large-scale synthesis and encapsulation of metal nanoparticles
Xiao Liu, Xiaobo Li, Zaihong Guan, Jian Liu, Jiao Zhao, Yan Yang and Qihua Yang*
Chem. Commun., 47 (2011) 8073–8075

97. Carbon Chain Growth by Formyl Insertion on Rhodium and Cobalt

Catalysts in Syngas Conversion
Yong-Hui Zhao, Keju Sun, Xiufang Ma, Jinxun Liu, Dapeng Sun, Hai-Yan Su, andWei-Xue Li*
Angew. Chem. Int. Ed., 50 (2011)5335 –5338

98. In Situ Oxidation Study of Pt(110) and Its Interaction with CO
Derek R. Butcher, Michael E. Grass, Zhenhua Zeng, Funda Aksoy, Hendrik Bluhm, Wei-Xue Li*, Bongjin S. Mun*, Gabor A. Somorjai and Zhi Liu*
J. Am. Chem. Soc., 133 (2011) 20319–20325

99. Carbon monoxide adsorption and dissociation on Mn-decorated Rh(1 1 1) and Rh(5 5 3) surfaces: A first-principles study
Xiufang Ma, Hai-yan Su, Huiqiu Deng, Wei-Xue Li*
Catalysis Today, 160 (2011) 228–233

100. Size-Selective Carbon Nanoclusters as Precursors to the Growth of Epitaxial Graphene
Bo Wang, Xiufang Ma, Marco Caffio, Renald Schaub*, and Wei-Xue Li*
Nano Lett., 11 (2011) 424–430

101. Theoretical insight into the electronic, optical and photocatalytic properties of InMO4 (M = V, Nb, Ta) photocatalysts
Guo-Ling Li* and Zhen Yin
Phys. Chem. Chem. Phys., 13 (2011) 2824–2833

102. First-principles study of the adsorption of Au atoms and Au2 and Au4 clusters on FeO/Pt(111)
Runhai Ouyang and Wei-Xue Li*
PHYSICAL REVIEW B, 84 (2011) 165403-1-165403-9

103. Promotion effect of support calcination on ethanol production from CO hydrogenation over $Rh/Fe/Al_2O_3$ catalysts
Weimiao Chen, Yunjie Ding*, Xiangeng Song, Tao Wang, Hongyuan Luo
Applied Catalysis A: General, 407 (2011) 231– 237

104. Studies on oxy-bromination of methane and coke deposition over

$FePO_4/SiO_2$ catalysts
Ronghe Lin, Yunjie Ding*, Leifeng Gong, Wenda Dong, Weimiao Chen, Yuan Lu
Catalysis Today, 164 (2011) 34–39

105. Beyond the Limits of X-ray Powder Diffraction: Description of the Nonperiodic Subnetworks in Aluminophosphate-Cloverite by NMR Crystallography
Charlotte Martineau*, Boris Bouchevreau, Zhijian Tian, Sven-Jare Lohmeier, Peter Behrens, and Francis Taulelle
Chem. Mater., 23 (2011) 4799–4809

106. Enhanced performance of Ca-doped Pt/g-Al_2O_3 catalyst for cyclohexane dehydrogenation
Jiafeng Yu, Qingjie Ge, Wen Fang, Hengyong Xu*
International Journal of Hydrogen Energy, 36 (2 011)11536 -11544

107. Influences of calcination temperature on the efficiency of CaO promotion over CaO modified Pt/r-Al_2O_3 catalyst
Jiafeng Yu, Qingjie Ge*, Wen Fang, Hengyong Xu*
Applied Catalysis A: General, 395 (2011) 114–119

108. 助剂形态对 Pt/γ -Al2O3 催化剂抗积炭性能的影响
俞佳枫, 方 雯, 葛庆杰, 徐恒泳
Chin. J. Catal., 32 (2011) 1364–1369

109. A Complexation Promoted Organic N-Hydroxy Catalytic System for Selective Oxidation of Toluene
Qiaohong Zhang, Chen Chen, Jie Xu*, Feng Wang, Jin Gao, and Chungu Xia*
Adv. Synth. Catal. 353 (2011) 226 – 230

110. Efficient Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran, and Synthesis of a Fluorescent Material
Jiping Ma, Zhongtian Du, Jie Xu*, Qinghui Chu, and Yi Pang*
ChemSusChem, 4 (2011) 51–54

111. Adventure in Asymmetric Hydrogenation: Synthesis of Chiral Phosphorus Ligands and Asymmetric Hydrogenation of

Heteroaromatics
Xiang-Ping Hu, Duo-Sheng Wang, Chang-Bin Yu, Yong-Gui Zhou*, and Zhuo Zheng
Top Organomet. Chem., 36 (2011) 313–354

112. An efficient route to 2,3-disubstituted indoles via reductive alkylation using H_2 as reductant
Liang-Liang Cao, Duo-Sheng Wang, Guo-Fang Jiang* , Yong-Gui Zhou*
Tetrahedron Letters, 52 (2011) 2837–2839

113. Biomimetic Asymmetric Hydrogenation: In Situ Regenerable Hantzsch Esters for Asymmetric Hydrogenation of Benzoxazinones
Qing-An Chen, Mu-Wang Chen, Chang-Bin Yu, Lei Shi, Duo-Sheng Wang, Yan Yang, and Yong-Gui Zhou*
J. Am. Chem. Soc., 133 (2011) 16432–16435

114. Convergent Asymmetric Disproportionation Reactions: Metal/Brønsted Acid Relay Catalysis for Enantioselective Reduction of Quinoxalines
Qing-An Chen, Duo-Sheng Wang, Yong-Gui Zhou,* Ying Duan, Hong-Jun Fan,* Yan Yang, and Zhang Zhang
J. Am. Chem. Soc., 133 (2011) 6126–6129

115. Dehydration triggered asymmetric hydrogenation of 3-(a-hydroxyalkyl)indoles
Duo-Sheng Wang, Jie Tang, Yong-Gui Zhou*, Mu-Wang Chen, Chang-Bin Yu, Ying Duan and Guo-Fang Jiang*
Chem. Sci., 2 (2011) 803-806

116. Enantioselective Pd-catalyzed hydrogenation of enesulfonamides
Chang-Bin Yu, Kao Gao, Duo-Sheng Wang, Lei Shi and Yong-Gui Zhou*
Chem. Commun., 47（2011）5052–5054

117. Highly Enantioselective Partial Hydrogenation of Simple Pyrroles: A Facile Access to Chiral 1-Pyrrolines
Duo-Sheng Wang, Zhi-Shi Ye, Qing-An Chen, Yong-Gui Zhou*，Chang-Bin Yu, Hong-Jun Fan*, and Ying Duan
J. Am. Chem. Soc., 133 (2011) 8866–8869

118. Palladium-Catalyzed Asymmetric Hydrogenation of Simple Ketimines Using a Brønsted Acid as Activator
Xiao-Yu Zhou,a Ming Bao*, and Yong-Gui Zhou*
Adv. Synth. Catal., 353 (2011) 84–88

119. Palladium-catalyzed asymmetric hydrogenation of simple ketones activated by Brønsted acids
Xiao-Yu Zhou, Duo-Sheng Wang, Ming Bao*, Yong-Gui Zhou*
Tetrahedron Letters, 52 (2011) 2826–2829

120. Pd-Catalyzed Asymmetric Hydrogenation of C=C Bond of a,b-Unsaturated Ketones
Duo-fSheng Wang, Da-Wei Wang, Yong-Gui Zhou*
Synlett., 7 (2011) 947–950

121. Rhodium-Catalyzed Addition of Boronic Acids to Vinylogous Imines Generated in situ from Sulfonylindoles
Liang-Liang Cao, Zhi-Shi Ye, Guo-Fang Jiang*, and Yong-Gui Zhou*
Adv. Synth. Catal. , 353 (2011) 3352 – 3356

122. Synthesis and enantioselective hydrogenation of seven-membered cyclic imines: substituted dibenzo[b,f][1,4]oxazepines
Kai Gao, Chang-Bin Yu, Wei Li, Yong-Gui Zhou* and Xumu Zhang*
Chem. Commun., 47 (2011) 7845–7847

123. Synthesis of Electronically Deficient Atropisomeric Bisphosphine Ligands and Their Application in Asymmetric Hydrogenation of Quinolines
De-Yang Zhang, Duo-Sheng Wang, Min-Can Wang*, Chang-Bin Yu, Kai Gao, Yong-Gui Zhou*
Synthesis, 17 (2011) 2796–2802

124. Catalytic role of different pore systems in MCM-49 zeolite for liquid alkylation of benzene with ethylene
Kefeng Liu, Sujuan Xie, Shenglin Liu, Guoliang Xu, Ningning Gao, Longya Xu*
Journal of Catalysis, 283 (2011) 68–74

125. Crystallization and morphology of mordenite zeolite influenced by

various parameters in organic-free synthesis
Ling Zhang, Sujuan Xie, Wenjie Xin, Xiujie Li, Shenglin Liu, Longya Xu*
Materials Research Bulletin, 46 (2011) 894–900

126. Effect of crystallization mode of hydrous zirconia support on the isomerization activity of $Pt/WO_3–ZrO_2$
Yueqin Song, Juanjuan Zhang, Yifei Zhang, Xiaolong Zhou*, Jin-An Wang, Longya Xu
Catalysis Today, 166 (2011) 79–83

127. Effects of acid leaching post-treatment on the catalytic performance of MoO_3/mordenite-alumina catalysts for 1-butene metathesis reaction
Shengjun Huang, Huijuan Liu, Ling Zhang, Shenglin Liu, Wenjie Xin, Xiujie Li, Sujuan Xie, Longya Xu*
Applied Catalysis A: General, 404 (2011) 113– 119

128. Effects of Zinc and Magnesium Addition to ZSM-5 on the Catalytic Performances in 1-hexene Aromatization Reaction
Xiujie Li, Shenglin Liu, Xiangxue Zhu, Yuzhong Wang, Sujuan Xie, Wenjie Xin, Ling Zhang, Longya Xu
Catal Lett , 141(2011) 1498–1505

129. Influences of alkaline treatment on the structure and catalytic performances of ZSM-5/ZSM-11 zeolites with alumina as binder
Xiujie Li, Chuanfu Wang, Shenglin Liu, Wenjie Xin, Yuzhong Wang, Sujuan Xie, Longya Xu*
Journal of Molecular Catalysis A: Chemical, 336 (2011) 34–41

130. WO_3 microcrystallites: One of the crucial factors controlling the isomerization activity of $Pt/WO_3–ZrO_2$
Yueqin Song, Juanjuan Zhang, Xiaolong Zhou*, Jin-An Wangb, Longya Xu, Guoxian Yu
Catalysis Today, 166 (2011) 67–72

131. A Dually Effective Inorganic Salt at Inducing Obvious Viscoelastic Behavior of both Cationic and Anionic Surfactant Solutions
Ting Lu, Lian’gen Xia, Xiaodong Wang*, Aiqing Wang, and Tao Zhang*

Langmuir 2011, 27, 9815–9822

132. A highly active and sintering-resistant Au/FeOx–hydroxyapatite catalyst for CO oxidation
Kunfeng Zhao, Botao Qiao, Junhu Wang*, Yanjie Zhanga and Tao Zhang*
Chem. Commun., 47（2011） 1779–1781

133. A novel Au&Pd/Fe(OH)x catalyst for CO + H_2 co-oxidations at low temperatures
Botao Qiao, Aiqin Wang, Masashi Takahashi, Yanjie Zhang, Junhu Wanga, Youquan Deng*, Tao Zhang*
Journal of Catalysis, 279 (2011) 361–365

134. Au–Cu alloy nanoparticles supported on silica gel as catalyst for CO oxidation:Effects of Au/Cu ratios
Xiaoyan Liu, Aiqin Wang, Tao Zhang*, Dang-Sheng Su, Chung-Yuan Mou*
Catalysis Today, 160 (2011) 103–108

135. Catalytic Hydrogenation of Corn Stalk to Ethylene Glycol and 1,2-Propylene Glycol
Jifeng Pang, Mingyuan Zheng, Aiqin Wang, and Tao Zhang*
Ind. Eng. Chem. Res. , 50 (2011) 6601–6608

136. Density functional theory investigations on the catalytic mechanisms of hydrazine decompositions on Ir(1 1 1)
Ping-Xia Zhang, Yang-Gang Wang, Yan-Qiang Huang, Tao Zhang, Guo-Shi Wu, Jun Li*
Catalysis Today, 165 (2011) 80–88

137. Effect of Ir crystallographic site on the catalytic performance of Ir-substituted barium hexaferrites for N_2O decomposition
Yanyan Zhu, Xiaodong Wang*, Yan Zhang, Junhu Wang, Yanqiang Huang, Charles Kappenstein, Tao Zhang*
Applied Catalysis A: General, 409– 410 (2011) 194– 201

138. Highly effective CuO/Fe(OH)x catalysts for selective oxidation of CO in H_2-rich stream

Botao Qiao, Aiqin Wang, Jian Lin, Lin Li, Dangsheng Su, Tao Zhang*
Applied Catalysis B: Environmental, 105 (2011) 103–110

139. Highly Efficient Extraction of Serum Peptides by Ordered Mesoporous Carbon
Hongqiang Qin, Peng Gao, Fangjun Wang, Liang Zhao, Jun Zhu, Aiqin Wang, Tao Zhang, Ren'an Wu* , and Hanfa Zou*
Angew. Chem. Int. Ed., 50, (2011), 12218 –12221

140. Identification of the chemical state of Fe in barium hexaaluminate using Rietveld refinement and 57Fe Mössbauer spectroscopy
Yanyan Zhu, Xiaodong Wang*, Aiqin Wang, Guotao Wu, Junhu Wang, Tao Zhang*
Journal of Catalysis, 283 (2011) 149–160