

2010 年发表的文章

1. A Highly Efficient Cu/La₂O₃ Catalyst for Transfer Dehydrogenation of Primary Aliphatic Alcohols
Ruijuan Shi, Fei Wang, Tana Tana, Yong Li, Xiumin Huang, Wenjie Shen*
Green Chem., 12 (2010) 108–113
2. Dimethyl Ether Carbonylation to Methyl Acetate over HZSM-35
Junlong Liu, Huifu Xue, Xiumin Huang, Yong Li, Wenjie Shen*
Catal. Lett., 139 (2010) 33–37
3. Hydrogen production from ethanol steam reforming in a micro-channel reactor
Weijie Cai, Fagen Wang, Andre van Veen, Claude Descorme, Yves Schuurman, Wenjie Shen, Claude Mirodatos*
International Journal of hydrogen energy, 35 (2010) 1152-1159
4. A ¹³CO isotopic study on the CO promotion effect in methane dehydroaromatization reaction over a Mo/HMCM-49 catalyst
Songdong Yao, Changyong Sun, Juan Li, Xiumin Huang, Wenjie Shen*
Journal of Natural Gas Chemistry, 19(2010)1–5
5. Synthesis of Nanorod-Shaped Cobalt Hydroxycarbonate and Oxide with the Mediation of Ethylene Glycol
Xiaowei Xie, Panju Shang, Zhiquan Liu, Yongge Lv, Yong Li, and Wenjie Shen*
J. Phys. Chem. C, 114 (2010) 2116–2123
6. Selective surface modification of activated carbon for enhancing the catalytic performance in hydrogen peroxide production by hydroxylamine oxidation
Wei Song, Yong Li, Xiaohui Guo, Juan Li, Xiumin Huang, Wenjie Shen*
Journal of Molecular Catalysis A: Chemical, 328 (2010) 53–59

7. Synthesis of CoNi nanowires by heterogeneous nucleation in polyol
Qiyang Liu, Xiaohui Guo, Tiejun Wang, Yong Li, Wenjie Shen*
Materials Letters, 64 (2010) 1271 - 1274
8. Surface-functionalized Carbon Black as Catalyst for the Direct
Production of Hydrogen Peroxide by the Oxidation of Hydroxylamine
Song Wei, Li Yong, Guo Xiaohui, Li Juan, Shen Wenjie*
Chin. J. Chem., 28 (2010) 693-698
9. Transfer Dehydrogenation of 1-Octanol to 1-Octanal over Cu/MgO
Catalyst: Effect of Cu Particle Size
SHI Ruijuan, WANG Fei, MU Xiaoling, Ta Na, LI Yong, HUANG
Xiumin, SHEN Wenjie*
Chinese Journal of Catalysis, 31(6) (2010) 626-630
10. Effect of Ethane Addition on Methane Dehydroaromatization over
Mo/HZSM-5 Catalyst
SUN Changyong, YAO Songdong, SHEN Wenjie*, LIN Liwu
Chinese Journal of Catalysis, 31 (1) (2010) 78-83
11. Stability Enhancement of H-Mordenite in Dimethyl Ether
Carbonylation to Methyl Acetate by Pre-adsorption of Pyridine
LIU Junlong, XUE Huifu, HUANG Xiumin, WU Pei-Hao, HUANG
Shing-Jong, LIU Shang-Bin, SHEN Wenjie*
Chinese Journal of Catalysis, 31 (7) (2010) 729-738
12. Controlled transformation between the surface Fe (FeO) and
subsurface Fe structures at Pt(111) surface
Teng Ma, Qiang Fu, Yi Cui, Zhen Wang, Zhen Zhang, Dali Tan, Xinhe
Bao*
Chin. J. Catal., 31(2010)24-32
13. Multinuclear Solid-state NMR Characterization of the Coke on the
Mo/HBeta-Al₂O₃ Catalyst for Olefin Metathesis
HUANG Huijuan, LIU Xianchun, LIU Shenglin, LIU Xiumei, Xu
Longya, HAN Xiuwen, ZHANG Weiping*, BAO Xinhe
Chin. J. Catal., 31(2010)(2)186-190

14. Probing the electronic effect of carbon nanotube in catalysis: NH₃ synthesis over Ru nanoparticles
Shujing Guo, Xiulian Pan*, Haili Gao, Zhiqiang Yang, Jijun Zhao, Xinhe Bao*
CHEMISTRY-A EUROPEAN JOURNAL, 16(2010)(18)5379-5384
15. Conversion of Methanol to Hydrocarbons over Phosphorus-modified ZSM-5/ZSM-11 Intergrowth Zeolites
Peng Li, Weiping Zhang*, Xiuwen Han, Xinhe Bao*
Catal. Lett., 134(2010)124-130
16. Emulsion-assisted synthesis of monodisperse binary metal nanoparticles
Z. Yin, D. Ma*, X. Bao*
Chem. Commun., 46(2010)(8)1344-1346
17. Cooperative Structure-Directing Effect in the Synthesis of Aluminophosphate Molecular Sieves in Ionic Liquids
Renshun Xu, Xiaochao Shi, Weiping Zhang*, Yunpeng Xu, Zhijian Tian, Xiaobing Lu, Xiuwen Han, Xinhe Bao*
Phys. Chem. Chem. Phys., 12(2010)(10)2443-2449
18. Effect of substrate surface reconstruction on interaction with adsorbates: Pt on 6H-SiC(0001)
Zhen Wang, Qiang Fu*, Xinhe Bao*
Langmuir, 26(2010)(10)7227-7232
19. Structured Zeolites Catalysts with Hierarchical Channel Structure
Lijun Gu, Ding Ma*, Songdong Yao, Chunlei Wang, Wenjie Shen and Xinhe Bao*
Chem. Commun., 46(2010)(10)1733-1735
20. Freestanding graphene via thermal splitting of silicon carbide granules
Dehui Deng, Xiulian Pan*, Hui Zhang, Qiang Fu, Dali Tan, and Xinhe Bao*
Advanced materials, 22(2010)(19)2168-2171

21. Temperature dependence of the formation of graphene and subsurface carbon at Ru(0001) and its effect on surface reactivity
Yi Cui, Qiang Fu, Dali Tan, Xinhe Bao*
CHEMPHYSCHEM, 11(2010)(5)995-998
22. Mixed template effect adjusted by amine concentration in ionothermal synthesis of molecular sieves
Renyan Pei, Ying Wei, Keda Li, Guodong Wen, Renshun Xu, Yunpeng Xu, Lei Wang, Huaijun Ma, Bingchun Wang, Zhijian Tian, Weiping Zhang and Liwu Lin
DALTON TRANSACTIONS, 39(2010)1441-1443
23. Dynamic observation of layer-by-layer growth and removal of graphene on Ru(0001)
Yi Cui, Qiang Fu, Xinhe Bao*
Phys. Chem. Chem. Phys., 12(2010)(19)5053-5057
24. Charge effects on alkanes and the potential applications in selective catalysis: insights from theoretical studies
Gang Yang*, Chengbu Liu, Xiuwen Han, Xinhe Bao
MOLECULAR SIMULATION, 36(2010)(3)204-211
25. One-Step Synthesis of Bifunctional TiO₂ Catalysts and Their Photocatalytic Activity
Jun Fang, Fucheng Shi, Jing Bu, Jianjun Ding, Shutao Xu, Jun Bao, Yunsheng Ma, Zhiquan Jiang, Weiping Zhang, Chen Gao, and Weixin Huang*
J. Phys. Chem. C, 114(2010)(17)7940-7948
26. Interface-Confined Ferrous Centers for Catalytic Oxidation
Qiang Fu, WeiXue Li, Yunxi Yao, Hongyan Liu, HaiYan Su, Ding Ma, XiangKui Gu, Limin Chen, Zhen Wang, Hui Zhang, Bing Wang, Xinhe Bao*
Science, 328(2010)1141-1144
27. Enhanced capacitance of manganese oxide via confinement inside

carbon nanotubes

Wei Chen, Zhongli Fan, Lin Gu, Xinhe Bao* and Chunlei Wang
Chem. Commun., 46(2010)(22)3905-2907

28. The Effect of Support Acidity on Olefin Metathesis over Heterogeneous Mo/HBeta Catalyst: A DFT Study
Xin Li, Anmin Zheng, Jing Guan, Xiuwen Han, Weiping Zhang*, Xinhe Bao*
Catal. Lett., 138(2010)(1-2)116-123
29. Formation of periodic arrays of O vacancy clusters on monolayer FeO islands grown on Pt(111)
Teng Ma, Qiang Fu, Yunxi Yao, Yi Cui, Dali Tan, Runsheng Zhai, Xinhe Bao*
Chin. J. Catal., 31(2010)(8)1013-1018
30. Growth and Characterization of Two-Dimensional FeO Nanoislands Supported on Pt(111)
Yunxi Yao, Qiang Fu*, Zhen Wang, Dali Tan, Xinhe Bao*
J. Phys. Chem. C, 114(2010)(40)17069-17079
31. DFT studies on the reaction mechanism of cross-metathesis of ethylene and 2-butylene to propylene over heterogeneous Mo/HBeta catalyst
Xin Li, Jing Guan, Anmin Zheng, Danhong Zhou, Xiuwen Han, Weiping Zhang, Xinhe Bao
J. Mol. Catal. A-Chem., 330(2010)(1-2)99-106
32. Production of 5-Hydroxymethylfurfural from Cellulose Catalyzed by Lewis Acid under Microwave Irradiation in Ionic Liquid
Wu Shuchang, Wang Chunlei, Gao Yongjun, Zhang Shaochun, Ma Ding, Zhao Zongbao
Chin. J. Catal., 31(2010)(9)1157-1161
33. Fabrication and catalytic tests of MCM-22/silicon carbide structured catalysts
Gu Lijun, Ma Ding, Hu Gang, Wu Jingjing, Wang Hongxia, Sun

Changyong, Yao Songdong, Shen Wenjie, Bao Xinhe
DALTON TRANSACTIONS, 39(2010)(40)9705-9710

34. Studies of silver species for low-temperature CO oxidation on Ag/SiO₂ catalysts
Zhang Xiaodong, Qu Zhenping*, Li Xinyong, Wen Meng, Quan Xie, Ma Ding, Wu Jingjing
SEPARATION AND PURIFICATION TECHNOLOGY, 72(2010)(3)395-400

35. Selective Oxidation of Methane to Methanol over Palladium-Metallophthalocyanine Composite Catalysts at Room Temperature
FAN Yafang, WANG Chunlei, MA Ding*, BAO Xinhe
Chin. J. Catal., 31(2010)(3)302-306

36. The Crystallization Process of MCM-49/ZSM-35 Composite Zeolites in a Mixed-Amine System
XIE Sujuan, LIU Kefeng, LIU Shenglin, LIU Yong, ZHANG Weiping, XU Longya*
Chin. J. Catal., 31(2010)(8)1071-1076

37. Low-Temperature Synthesis and Characterization of AlPO-Cristobalite in Ionic Liquid
XU Renshun; ZHANG Weiping*; HAN Xiuwen; BAO Xinhe*
Chin. J. Catal., 31(2010)(7)776-780

38. Ionothermal Synthesis of an Aluminophosphate Molecular Sieve with 20-Ring Pore Openings
Ying Wei, Zhijian Tian, Hermann Gies, Renshun Xu, Huaijun Ma, Renyan Pei, Weiping Zhang, Yunpeng Xu, Lei Wang, Keda Li, Bingchun Wang, Guodong Wen, Liwu Lin
Angew. Chem.-Int. Edit., 49(2010)(31)5367-5370

39. Active Sites in Fe/ZSM-5 Zeolite
Gang Yang*, Jing Guan, Lijun Zhou, Xiuwen Han and Xinhe Bao

40. LiNH₂BH₃ center dot NH₃BH₃: Structure and Hydrogen Storage Properties
Chengzhang Wu, Guotao Wu, Zhitao Xiong, Xiuwen Han, Hailiang Chu, Teng He and Ping Chen
Chem. Mater., 22(2010)(1)3-5
41. Direct production of light olefins from syngas over a carbon nanotube confined iron catalyst
ChuanFu Wang, XiuLian Pan* and XinHe Bao*
Chin. Sci. Bull., 55(2010)(12)1117-1119
42. An In situ High-Pressure MAS NMR Study of the Adsorption and Hydrogenation Processes of CO
XU Shu-tao; ZHANG Wei-ping*; LAN Xi-jie; HAN Xiu-wen; BAO Xin-he*
Chinese Journal of Magnetic Resonance, 27(2010)(2)141-149
43. The promotional effect of NO on N₂O decomposition over the bi-nuclear Fe sites in Fe/ZSM-5
Haian Xia, Keqiang Sun, Zhimin Liu, Zhaochi Feng, Pinliang Ying, Can Li*
Journal of Catalysis, 2010, 270, 103-109
44. Properties of i-motif under molecular crowding conditions
Jun Zhou, Guoqing Jia, Zhaochi Feng, Can Li*
Chin. J. Chem. U., 2010, 31, 309-311
45. Formation of i-motif structure at neutral and slightly alkaline pH
Jun Zhou, Chunying Wei, Guoqing Jia, Xiuli Wang, Zhaochi Feng, Can Li*
Mol. Biosyst., 2010, 6, 580-586

46. Formation and stabilization of G-quadruplex in nanosized water pools
Jun Zhou, Chunying Wei, Guoqing Jia, Xiuli Wang, Zhaochi Feng, Can Li*
Chem. Comm., 2010, 46, 1700-1702
47. UV Raman spectroscopic studies on active sites and synthesis mechanisms of transition metal-containing microporous and mesoporous materials
Fengtao Fan; Zhaochi Feng; Can Li*
Accounts of Chemical Research, 2010, 43 (3), 378–387
48. Photocatalytic H₂ Evolution on MoS₂/CdS Catalyst under Visible Light Irradiation
Xu Zong; Guopeng Wu; Hongjian Yan; Guijun Ma; Jingying Shi; Fuyu Wen; Lu Wang; Can Li*
Journal of Physical Chemistry C, 2010, 114 (4),1963–1968
49. Preparation of Fe-substituted Mesoporous silicas with highly isolated irons species in buffer solution
Hongchuan Xin, Jianting Tang, Fengtao Fan, Qihua Yang,* Can Li*
Journal of Inorganic Materials, 2010, 25, 107-112
50. The control of the diameter of the nanorods prepared by dc reactive magnetron sputtering and the applications for DSSC
Lijian Meng*, Tong Ren, Can Li
Applied Surface Science, 2010, 256, 11, 3676-3682
51. Multifunctional human serum albumin in the surface-enhanced Raman spectroscopy of porphyrin: demetalation promoter, molecular spacer and stabilizer
Guoqing Jia, Zhaochi Feng, Chunying Wei, Can Li*
Journal of Raman Spectroscopy, 2010, 41, 12, 1615–1620

52. Chirality transition in the epoxidation of (-)-pinene and successive hydrolysis studied by Raman optical activity and DFT
Shi Qiu, Guanna Li, Peng Liu, Changhao Wang, Zhaochi Feng and Can Li*
Phys. Chem. Chem. Phys., 2010, 12, 3005 - 3013
53. Effect of triethanolamine and sodium dodecyl sulfate on the formation of CuInSe₂ thin films by electrodeposition
Rui Yu, Tong Ren and Can Li*
Thin Solid Films 518 (2010) 5515–5519
54. Trap states and carrier dynamics of TiO₂ studied by photoluminescence spectroscopy under weak excitation condition
Xiuli Wang, Zhaochi Feng, Jianying Shi, Guoqing Jia, Shuai Shen, Jun Zhou and Can Li*
Phys. Chem. Chem. Phys., 2010, 12, 7083 - 7090
55. The Synergistic Effects of Two Co-catalysts on Zn₂GeO₄ on Photocatalytic Water Splitting
Baojun Ma, Fuyu Wen, Hongfu Jiang, Jinhui Yang, Pinliang Ying, Can Li*
Catal. Lett., 2010, 134:78–86
56. Enhancement of Photocatalytic Water Oxidation Activity on IrO_x-ZnO/Zn_{2-x}GeO_{4-x-3y}N_{2y} Catalyst with the Solid Solution Phase Junction
Baojun Ma, Jinhui Yang, Hongxian Han, Jiantao Wang, Xiaohong Zhang and Can Li *
J. Phys. Chem. C, 2010, 114 (29), 12818–12822
57. Enhancement of catalytic performance in asymmetric transfer hydrogenation by microenvironment engineering of the nanocage
Shiyang Bai, Hengquan Yang, Peng Wang, Jinsuo Gao, Bo Li, Qihua Yang* and Can Li *
Chem. Commun., 2010, 46, 8145-8147
58. Microstructure evolution of CuInSe₂ thin films prepared by

single-bath electrodeposition

Tong Ren, Rui Yu, Min Zhong, Jingying Shi and Can Li *

Solar Energy Materials & Solar Cells, 95(2011)510–520

59. Synthesis of Hierarchical Copper-Containing Silicas under Near Neutral Conditions and Their Catalytic Properties in Phenol Hydroxylation
Jianting Tang, Hongchuan Xin, Weiguang Su, Jian Liu, Can Li* and Qihua Yang*
Chin. J. Catal., 2010, 31(4), 386-393
60. FTIR Spectroscopy Study on Quantum Size Effect of CuOx Nanoparticles in CuOx/SiO2
Wei-Guang Su, Pin-Liang Ying, Zhao-Chi Feng and Can Li*
Chin. J. Chem. U., 2010, 31, 1014-1015
61. The oxidation of benzothiophene using the Keggin-type lacunary polytungstophosphate as catalysts in emulsion
Yongna Zhang, Hongying Lü, Lu Wang, Yuliang Zhang, Peng Liu, Hongxian Han, Zongxuan Jiang* and Can Li*
J. Mol. Catal. A: Chem., 2010, 332(1-2), 59-64
62. UV Raman Spectroscopic study on the synthesis mechanism and assembly of molecular sieves
Fengtao Fan, Zhaochi Feng and Can Li*
Chem. Soc. Rev., 2010, 39 (12), 4794 - 4801
63. Shape-Controlled Synthesis of CdS Nanostructures via a Solvothermal Method
Xiuli Wang, Zhaochi Feng, Dayong Fan, Fengtao Fan and Can Li*
Cryst. Growth Des., 2010, 31(7), 788-792
64. Static Synthesis and Crystallization Mechanism of ZSM-35 Zeolite
Xiaohua Ju, Fengtao Fan, Fuping Tian* and Zhaochi Feng*
Chin. J. Catal., 31(2010)(7)788-792
65. Surface Structural Transformation and the Phase Transition Kinetics of

Brookite TiO₂

Qian Xu, Jing Zhang, Zhaochi Feng, Yi Ma, Xiang Wang and Can Li*
Chem. Asian J., 2010, 5, 10, 2158-2161

66. Enhanced Catalytic Oxidation by Hierarchically Structured TS-1 Zeolite
Hongchuan Xin, Jiao Zhao, Shutao Xu, Junping Li, Weiping Zhang, Xinwen Guo, Emiel J. M. Hensen, Qihua Yang* and Can Li
J. Phys. Chem. C, 2010, 114 (14), 6553–6559
67. Tunable Assembly of Organosilica Hollow Nanospheres
Jian Liu, Shiyang Bai, Hua Zhong, Can Li* and Qihua Yang*
J. Phys. Chem. C, 2010, 114 (2), 953–961
68. Template-Free Synthesis of Sphere, Rod and Prism Morphologies of CeO₂ Oxidation Catalysts
Yejun Guan*, Emiel J. M. Hensen, Yan Liu, Haidong Zhang, Zhaochi Feng and Can Li*
Catal. Lett., 2010, 137(1-2), 28-34
69. Crystal Facet Dependence of Water Oxidation on BiVO₄ Sheets under Visible Light Irradiation
Dongge Wang, Hongfu Jiang, Xu Zong, Qian Xu, Yi Ma, Guoling Li and Can Li*
Chem. Eur. J. 2011, 17, 1275 – 1282
70. 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* and Can Li*
Journal of Molecular Catalysis A, 2010, 332, 59-64
71. Aerobic oxidative desulfurization of benzothiophene, dibenzothiophene and 4,6-dimethyldibenzothiophene using an Anderson-type catalyst[(C₁₈H₃₇)₂N(CH₃)₂]₅[IMo₆O₂₄]
Hongying Li*, Yongna Zhang, Zongxuan Jiang and Can Li*
Green Chem., A. 2010, 12, 1954-1958

72. Effect of Water on Active Iron Sites for N₂O Decomposition over Fe/ZSM-5 Catalyst
Haian Xia, Keqiang Sun, Zhaochi Feng and Can Li*
Journal of Catalysis, 2010, 270, 103-109
73. 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 2011, 115, 972–981
74. Novel nickel-based catalyst for low temperature hydrogen production from methane steam reforming in membrane reformer
Chen YZ, Cui P, Xiong GX*, Xu HY
Asia-Pacific Journal of Chemical Engineering, 2010, 5, 1, 93-100
75. Controllable Synthesis of Metal-Organic Frameworks: From MOF Nanorods to Oriented MOF Membranes
Li YS, Bux H, Feldhoff A, Li GL, Yang WS*, Caro J
Advanced Materials, 2010, 22, 3322- 3326
76. Effects of sintering temperature on properties of dual-phase oxygen
Qiming Li, Xuefeng Zhu, Yufeng He, You Cong, Weishen Yang*
Journal of Membrane Science, 2010, 367, 134-140
77. Investigation of structure and oxygen permeability of Ba - Ce - Co - Fe-O system
Qiming Li, Xuefeng Zhu, Weishen Yang*
Materials Research Bulletin, 2010, 45, 9, 1112-1117
78. Hydrogen Permeation in a Thin Pd-Cu Alloy Membrane Reactor for Steam Reforming of Ethanol
ZHANG Xiaoliang, WANG Weiping, XIONG Guoxing*, YANG Weishen*
Chinese Journal of Catalysis, 2010, 31, 8, 1049-1053
79. Oxygen permeation and partial oxidation of methane in dual-phase

membrane reactors

Xuefeng Zhu, Qiming Li, Yufeng He, You Cong, Weishen Yang*

Journal of Membrane Science, 2010, 360, 454- 460

80. Large reversible capacity of high quality graphene sheets as an anode material for lithium-ion batteries
Lian PC, Zhu XF, Liang SZ, Liang SZ, Li Zhong, Yang WS*, Wang HH
Electrochimica Acta, 2010, 55, 12, 3909-3914
81. Phase transitions in $\text{Sr}_{1+x}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ oxides
Yufeng He, Xuefeng Zhu, Zhenfang Guo, Weishen Yang*
Materials Letters, 2010, 64, 1618-1621
82. Molecular Sieve Membrane: Supported Metal-Organic Framework with High Hydrogen Selectivity
Li, YS; Liang, FY; Bux, H, Feldhoff A, Yang WS*, Caro J
Angewandte Chemie-International Edition, 2010, 49, 3, 548-551
83. Zeolitic imidazolate framework ZIF-7 based molecular sieve membrane for hydrogen separation
Li YS, Liang FY, Bux HG, Yang WS*, Caro J
Journal of Membrane Science, 2010, 354, 1-2, 48-54
84. Oxygen permeability and stability of $\text{BaCe}_{0.1}\text{Co}_{0.4}\text{Fe}_{0.5}\text{O}_{3-\delta}$ oxygen permeable membrane
Qiming Li, Xuefeng Zhu, Yufeng He, Weishen Yang*
Separation and Purification Technology, 2010, 73, 1, 38-43
85. Fabrication of Highly b-Oriented MFI Film with Molecular Sieving Properties by Controlled In-Plane Secondary Growth
Yi Liu, Yanshuo Li, and Weishen Yang*
Journal of the American Chemical Society, 2010, 132, 1768-1769
86. Preface: Recent Advances in Catalysis for Ultra Clean Fuels
Xinwen Guo, Anjie Wang, Weishen Yang, Chunshan Song, Henrik Topsoe, Slavik Kasztelan, Mingyuan He, James J. Spivey

- Catalysis Today, 2010, 149, 1-2, 1-1
87. Effect of Pd loading and precursor on the catalytic performance of Pd/WO₃ - ZrO₂ catalysts for selective oxidation of ethylene
Lixia Wang, Shuliang Xu, Wenling Chu, Weishen Yang*
Catalysis Today, 2010, 149, 1-2, 163-166
 88. Bi₄Cu_{0.2}V_{1.8}O_{11.8} based electrolyte membrane reactor for selective oxidation of propane to acrylic acid
Jibo Wang, Baofeng Ji, Wenling Chu, Shijing Zhan, Liwu Lin, Weishen Yang*
Catalysis Today, 2010, 149, 1-2, 163-166
 89. Ammonia oxidation in Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3.8}membrane reactor
Shumin Sun, M. Rebeilleau-Dassonneville, Xuefeng Zhu, Wenling Chu, Weishen Yang*
Catalysis Today, 2010, 149, 1-2, 167-171
 90. Partial oxidation of methane in BaCe_{0.1}Co_{0.4}Fe_{0.5}O_{3.8}membrane reactor
Qiming Li, Xuefeng Zhu, Yufeng He, Weishen Yang*
Catalysis Today, 2010, 149, 1-2, 185-190
 91. Chiral Mesoporous Organosilica Nanospheres: Effect of Pore Structure on the Performance in Asymmetric Catalysis
Xiao Liu, Peiyuan Wang, Lei Zhang, Jie Yang, Can Li* and Qihua Yang*
Chem. Eur. J. 2010, 16, 12727 – 12735
 92. Chirally Functionalized Hollow Nanospheres Containing l-Prolinamide: Synthesis and Asymmetric Catalysis
Jinsuo Gao, Jian Liu, Jianting Tang, Dongmei Jiang, Bo Li, and Qihua Yang*
Chem. Eur. J. 2010, 16, 7852 – 7858
 93. (R)-(+)-Binol-Functionalized Mesoporous Organosilica as a Highly Efficient Pre-Chiral Catalyst for Asymmetric Catalysis
Xiao Liu, Peiyuan Wang, Yan Yang, Peng Wang, and Qihua Yang*

Chem. Asian J. 2010, 5, 1232 – 1239

94. Self-assembly of mesoporous silicas hollow microspheres via food grade emulsifiers for delivery systems
Mahendra P. Kapoor, Ajayan Vinu, Wataru Fujii, Tatsuo Kimura, Qihua Yang, Yuuki Kasama
Microporous and Mesoporous Materials, 2010, 128, 187-193
95. Band structure and Fermi surface of atomically uniform lead films
S. L. He, Z. H. Zeng, M. Arita, M. Sawada, K. Shimada, S. Qiao, G. L. Li, W. X. Li*, Y. F. Zhang, Y. Zhang, X. C. Ma, J. F. Jia, Q. K. Xue, Q. J. Jia, H. H. Huang, H. Namatame, and M. Taniguchi
New Journal of Physics, 2010, 113034-1-113034-9
96. Theory of nitride oxide adsorption on transition metal (111) surfaces: a first-principles investigation
Zeng, Z. H., J. L. F. Da Silva, Wei-Xue Li*
Physical Chemistry Chemical Physics, 2010, 12, 2459-2470
97. First-principles calculation of core-level binding energy shift in surface chemical processes
ZhenHua Zeng, Xiufang Ma, Wuchen Ding and Wei-Xue Li*
Science China Chemistry, 2010, 53, 402-410
98. Theory of nitride oxide adsorption on transition metal (111) surfaces: a first-principles investigation
Tao Jiang, Li-Xian Sun, and Wei-Xue Li*
Physical Review B, 2010, 81, 035416—1-035416—9
99. Density functional theory and ab initio molecular dynamics study of NO adsorption on Pd(111) and Pt(111) surfaces
Zhen-Hua Zeng, Juarez L. F. Da Silva, and Wei-Xue Li*
Physical Review B, 2010, 81, 085408-1-085408-5
100. First-Principles Study on the Origin of the Different Selectivities for Methanol Steam Reforming on Cu(111) and Pd(111)
Xiang-Kui Gu and Wei-Xue Li*

Journal of Physical Chemistry C, 2010, 114, 21539-21547

101. Model relation between the energy-band edge and the Fermi level of the nondegenerate semiconductor TiO_2 : Application to electrochemistry

Guo-Ling Li, Wei-Xue Li* and Can Li

PHYSICAL REVIEW B, 2010, 82, 235109-1-8

102.

103.

104.

105.

106.

107. Hydrogen permeation and chemical stability of a
Ni-BaCe_{0.6}Zr_{0.2}Nd_{0.2}O₃-delta cermet membrane
詹世景, 朱雪峰, 王卫平, 计宝峰, 杨维慎, 林励吾
催化学报, 30 (2009) 986-990

0.707

0.707