

2013 年发表的文章

1. Highly efficient dehydrogenation of primary aliphatic alcohols catalyzed by Cu nanoparticles dispersed on rod-shaped $\text{La}_2\text{O}_2\text{CO}_3$
Fei Wang, Ruijuan Shi, Zhiquan Liu, Panju Shang, Xueyong Pang, Shuai Shen, Zhaochi Feng, Can Li, Wenjie Shen*
ACS catalysis, 3(2013)890-894 5.265
2. Selective dealumination of mordenite for enhancing its stability indimethyl ether carbonylation
Huifu Xue, Xiumin Huang, Ensheng Zhan, Meng Ma, Wenjie Shen*
Catalysis Communications, 37(2013)75-79 2.915
3. Tuning the shape of ceria nanomaterials for catalytic applications
Na Ta, Jingyue (Jimmy)Liu, Wenjie Shen*
Chinese Journal of catalysis, 34(2013)838-850 1.304
4. Dimethyl ether carbonylation to methyl acetate over nanosized mordenites
Huifu Xue, xiumin Huang, Evert Ditzel, Ensheng Zhan, Meng Ma, Wenjie Shen*
Ind. Eng. Chem. Res., 52(2013)11510-11515 2.206
5. Coking on micrometer- and nanometer-sized mordenite during dimethyl ether carbonylation to methyl acetate
Huifu Xue, xiumin Huang, Evert Ditzel, Ensheng Zhan, Meng Ma, Wenjie Shen*
Chinese Journal of Catalysis, 34(2013)1496-1503 1.304
6. Synthesis of Co_3O_4 nanotubes and their catalytic applications in CO oxidation
Yongge Lv, Yong Li, Wenjie Shen*
Catalysis Communications., 42(2013)116-120 2.915
7. Enantioselective hydrogenation of a, b-unsaturated carboxylic acids on Pd nanocubes
Chunhui Chen, Ensheng Zhan, Na Ta, Yong Li, Wenjie Shen*
Catalysis Science & Technology, 3(2013)2620-2626 3.753
8. Enantioselective hydrogenation of -dehydroamino acids on

- acinchonidine-modified palladium catalyst
Chunhui Chen, Ensheng Zhan, Yong Li, Wenjie Shen*
Journal of Molecular Catalysis A: Chemical, 379(2013)117–121 3.187
9. Enantioselective hydrogenation of α , β -unsaturated carboxylic acids: effects of palladium particle size and support acidic property
Chunhui Chen, Ensheng Zhan, Yong Li, Wenjie Shen*
Acta Chim. Sinica, 71(2013)1505-1510 0.622
10. Morphology-controlled synthesis of α -MoO₃ nanomaterials for ethanol oxidation
Zhongcheng Li, Yong Li, Ensheng Zhan, Na Ta, Wenjie Shen*
J. Mater. Chem. A., 1(2013)15370-15376 6.101
11. Stabilized gold nanoparticles on ceria nanorods by strong interfacial anchoring
Na Ta, Jingyue (Jimmy) Liu, Santhosh Chenna, Peter A. Crozier, Yong Li, Aling Chen, Wenjie Shen
Journal of the American Chemical Society, 134(2012)20585–20588 10.677
12. Rational synthesis of Beta zeolite with improved quality by decreasing crystallization temperature in organotemplate-free route
Haiyan Zhang, Bin Xie, Xiangju Meng, Ulrich Muller, Bilge Yilmaz, Mathias Feyen, Stefan Maurer, Hermann Gies, Takashi Tatsumi, Xinhe Bao, Weiping Zhang, Dirk De Vos, Fengshou Xiao
Microporous and Mesoporous Materials, 180(2013)123-129 3.365
13. DFT study on the NMR chemical shifts of molecules confined in carbon nanotubes
Pengju Ren, Anmin Zheng, Xiulian Pan, Xiuwen Han, Xinhe Bao*
J. Phys. Chem. C, 117(2013)23418–23424 4.814
14. Highly active reduction of oxygen on FeCo alloy catalyst encapsulated in pod-like carbon nanotubes with fewer walls
Jiao Deng, Liang Yu, Dehui Deng, Xiaoqi Chen, Fan Yang, Xinhe Bao*
J. Mater. Chem., 1(2013)14868–14873 6.101
15. Enhanced reactivity of graphene wrinkles and their function as nanosized gas inlets for reactions under graphene
Yanhong Zhang, Qiang Fu, Yi Cui, Rentao Mu, Li Jin, Xinhe Bao*
Phys. Chem. Chem. Phys., 15(2013)19042–19048 3.829

16. Nanosized iron oxide overlayers confined on Pt-skin surfaces for low temperature CO oxidation
Hong Xu, Qiang Fu, Xinhe Bao*
Chin. J. Catal., 34(2013)2029–2035 1.304
17. The formation mechanism of Ag/SBA-15 nanocomposites prepared via in-situ pH-adjusting method
Zhenping Qu, Xiaodong Zhang, Yang Lu, Xie Quan, Qiang Fu
Journal of Nanoscience and Nanotechnology, 13(2013)4573–4580 1.149
18. Tuning the redox activity of encapsulated metal clusters via the metallic and semiconducting character of carbon nanotubes
Fan Zhang , Xiulian Pan , Yongfeng Hu , Liang Yu , Xiaoqi Chen , Peng Jiang , Hongbo Zhang , Shibin Deng , Jin Zhang , Trudy B. Bolin , Shuo Zhang , Yuying Huang , Xinhe Bao*
Pnatl Acad Sci USA, 110(2013)14861–14866 9.737
19. Facile encapsulation of nanosized SnO₂ particles in carbon nanotubes as an efficient anode of Li-ion batteries
Xin Liu, Minghao Wu, Mingrun Li, Xiulian Pan, Jian Chen, Xinhe Bao*
J. Mater. Chem., 1(2013)9527–9535 6.101
20. Multinuclear Solid-State NMR Studies on the Formation Mechanism of Aluminophosphate Molecular Sieves in Ionic Liquids
Renshun Xu , Weiping Zhang , Jun Xu , Zhijian Tian , Feng Deng , Xiuwen Han , Xinhe Bao*
J. Phys. Chem. C, 117(2013)5848–5854 4.814
21. A comparative study of intercalation mechanism at Graphene/Ru(0001) interface
Li Jin, Qiang Fu, Yang Yang, Xinhe Bao*
Surf. Sci., 617(2013)81-86 1.838
22. Insights into the topotactic conversion process from layered silicate RUB-36 to FER-type zeolite by layer ReassemblSilicate RUB-36 to FER-type Zeolite by Layer Reassembly
Zhenchao Zhao, Weiping Zhang, Pengju Ren, Xiuwen Han, Ulrich Müller, Bilge Yilmaz, Mathias Feyen, Hermann Gies, Fengshou Xiao, Dirk De Vos, Takashi Tatsumi, Xinhe Bao*
Chem. Mater., 25(2013)840–847 8.238

23. Reversible structural transformation of FeO_x nanostructures on Pt under cycling redox conditions and its effect on oxidation catalysis
Qiang Fu, Yunxi Yao, Xiaoguang Guo, Mingming Wei, Yanxiao Ning, Hongyang Liu, Fan Yang, Zhi Liu, Xinhe Bao*
Phys. Chem. Chem. Phys., 15(2013)14708–14714 3.829
24. A highly active "NiO-on-Au" surface architecture for CO oxidation
Xuejun Xu; Qiang Fu; Xiaoguang Guo; Xinhe Bao*
ACS Catalysis, 3(2013)1810–1818 5.265
25. Facile filling of metal particles in small carbon nanotubes for catalysis
Hongbo Zhang, Xiulian Pan, Xinhe Bao*
Journal of Energy Chemistry, 22(2013)251–256 1.405
26. The improved reactivity of manganese catalysts by Ag in catalytic oxidation of toluene
Zhenping Qu, Yibin Bu, Yuan Qin, Qiang Fu*
Appl. Catal. B-Environ., 132–133(2013)353–362 5.825
27. Dynamic structural changes and CO oxidation catalysis of perovskite supported metal catalysts during cycled redox treatments
Kang Gao, Mingming Wei, Zhenping Qu, Qiang Fu, Xinhe Bao*
Chin. J. Catal., 34(2013)889–897 1.304
28. Simultaneous N-intercalation and N-doping of epitaxial graphene on 6H-SiC(0001) through thermal reactions in ammonia
Zhoujun Wang, Mingming Wei, Li Jin, Yaoxiao Ning, Liang Yu, Qiang Fu, Xinhe Bao*
Nano Research, 6(2013)399–408 7.392
29. Rh/CeO₂-SiC as a catalyst in partial oxidation of ethanol for hydrogen production
Xingyun Li, Fagen Wang, Xiulian Pan, Xinhe Bao*
Chin. J. Catal., 34(2013)257–262 1.304
30. Modulation of the textures and chemical nature of C-SiC as the support of Pd for liquid phase hydrogenation
Xingyun Li, Xiulian Pan, Yonghua Zhou, Xinhe Bao*
Carbon, 57(2013)34–41 5.868
31. Enhancing chemical reactions in a confined hydrophobic environment: an

- NMR study of benzene hydroxylation in carbon nanotubes
Hongbo Zhang, Xiulian Pan, Xiuwen Han, Xiumei Liu, Xuefeng Wang, Wanling Shen, Xinhe Bao*
Chemical Science, 4(2013)1075–1078 8.314
32. Recent progress in methane dehydroaromatization: From laboratory curiosities to promising technology
Shuqi Ma, Xiaoguang Guo, Lingxiao Zhao, Susannah Scott, Xinhe Bao*
Journal of Energy Chemistry, 22(2013)1–20 1.405
33. Interface-confined oxide nanostructures for catalytic oxidation reactions
Qiang Fu, Fan Yang, Xinhe Bao*
Acc. Chem. Res., 46(2013)1692–1701 20.833
34. Iron encapsulated within Pod-like carbon nanotubes for oxygen reduction reaction
Dehui Deng, Liang Yu, Xiaoqi Chen, Guoxiong Wang, Li Jin, Xiulian Pan, Jiao Deng, Gongquan Sun, Xinhe Bao*
Angew. Chem. Int. Edit., 52(2013)371–375 13.734
35. New Zeolite Al-COE-4: Reaching highly shape-selective catalytic performance through interlayer expansion
Bilge Yilmaz*, Ulrich Muller, Mathias Feyen, Haiyan Zhang, Fengshou Xiao, Trees De Baerdemaeker, Bart Tijsebaert, Pierre Jacobs, Dirk De Vos, Weiping Zhang, Xinhe Bao, Hiroyuki Imai, Takashi Tatsumi, Hermann Gies
Chem. Commun., 48(2012)11549–11551 6.378
36. Freestanding silicon films formed on ionic liquid surfaces
Shimin Cheng, Linyan Hu, Wei Qin, Fengqiang Xiong, Can Li*
J. Mater. Chem., 1(2013)55–58 6.101
37. Effects of surface modification on photocatalytic activity of CdS nanocrystals studied by photoluminescence spectroscopy
Lei Huang, Jinhui Yang, Xiuli Wang, Jingfeng Han, Hongxian Han, Can Li*
Phys. Chem. Chem. Phys., 15(2013)553–560 3.829
38. Sulfurization-Assisted Cobalt Deposition on Sm₂Ti₂S₂O₅ Photocatalyst for Water Oxidation under Visible Light Irradiation
Rengui Li, Zheng Chen, Wen Zhao, Fuxiang Zhang, Kazuhiko Maeda,

- Baokun Huang, Shuai Shen, Kazunari Domen, Can Li*
J. Phys. Chem. C., 117(2013)376–382 4.814
39. Spatial separation of photogenerated electrons and holes among {010} and {110} crystal facets of BiVO₄
Rengui Li, Fuxiang Zhang, Donge Wang, Jingxiu Yang, Mingrun Li, Jian Zhu, Xin Zhou, Hongxian Han, Can Li*
Nature Communications, 4(2013)2401-1–2401-7 10.015
40. Visible light driven overall water splitting using cocatalyst/BiVO₄ photoanode with minimized bias
Chunmei Ding, Jingying Shi, Donge Wang, Zhijun Wang, Nan Wang, Guiji Liu, Fengqiang Xiong, Can Li
Phys. Chem. Chem. Phys., 15(2013)4589–4595 3.829
41. Influence of extra-framework Al on the structure of the active iron sites in Fe/ZSM-35
Junying Wang, Haian Xia, Xiaohua Ju, Zhaochi Feng, Fengtao Fan, Can Li*
Journal of Catalysis, 300(2013)251–259 5.787
42. Identification of Fe₂(l-O) and Fe₂(l-O)₂ sites in Fe/ZSM-35 by in situ resonance Raman spectroscopy
Junying Wang, Guanna Li, Xiaohua Ju, Haian Xia, Fengtao Fan, Junhu Wang, Zhaochi Feng, Can Li*
Journal of Catalysis, 301(2013)77–82 5.787
43. Finding the “Missing Components” during the Synthesis of TS-1 Zeolite by UV Resonance Raman Spectroscopy
Qiang Guo, Zhaochi Feng, Guanna Li, Fengtao Fan, Can Li*
J. Phys. Chem. C., 117(2013)2844–2848 4.814
44. Nitrogen-doped layered oxide Sr₅Ta₄O₁₅ xN_x for water reduction and oxidation under visible light irradiation
Shanshan Chen, Jingxiu Yang, Chunmei Ding, Rengui Li, Shaoqing Jin, Donge Wang, Hongxian Han, Fuxiang Zhang, Can Li*
J. Mater. Chem. A, 1(2013)5651–5659 6.101
45. Roles of Cocatalysts in Photocatalysis and Photoelectrocatalysis
Jinhui Yang, Donge Wang, Hongxian Han, Can Li*
Acc. Chem. Res., 46(2013)1900–1909 20.833

46. Controlled growth, properties, and application of CdS branched Nanorod arrays on transparent conducting oxide substrate
Chunyan Yang, Mingrun Li, Wenhua Zhang, Can Li*
Solar Energy Materials & Solar Cells, 115(2013)100–107 4.63
47. Dual Cocatalysts Loaded Type I CdS/ZnS Core/Shell Nanocrystals as Effective and Stable Photocatalysts for H₂ Evolution
Lei Huang, Xiuli Wang, Jinhui Yang, Gang Liu, Jingfeng Han, Can Li*
J. Phys. Chem. C, 117(2013)11584–11591 4.814
48. An unexpected effect of water on the asymmetric hydrogenation of α -ketoesters on platinum nanoparticles confined in carbon nanotubes
Zaihong Guan, Shengmei Lu, Zhijian Chen, Can Li*
Journal of Catalysis, 305(2013)19–26 5.787
49. Hybrid Artificial Photosynthetic Systems Comprising Semiconductors as Light Harvesters and Biomimetic Complexes as Molecular Cocatalysts
Fuyu Wen, Can Li*
Acc. Chem. Res., 46(2013)2355-2364 20.833
50. Enantioselective Michael addition reactions in water using a DNA-based catalyst
Yinghao Li, Changhao Wang, Guoqing Jia, Shengmei Lu, Can Li*
Tetrahedron, 69(2013)6585–6590 2.803
51. Enhanced photocatalytic water oxidation on ZnO photoanodes in a borate buffer electrolyte
Fengqiang Xiong, Jingying Shi, Donge Wang, Jian Zhu, Wenhua Zhang
Can Li*
Catalysis Science & Technology, 3(2013)1699–1702 3.753
52. Study of the Phase Transformation of Single Particles of Ga₂O₃ by UV Raman Spectroscopy and High-Resolution TEM
Xiang Wang, Qian Xu, Fengtao Fan, Xiuli Wang, Mingrun Li, Zhaochi Feng, Can Li*
Chem. Asian J., 8(2013)2189–2195 4.572
53. Synthesis and Morphology Control of AM-6 Nanofibers with Tailored -V-OV-Intermediates
Meiling Guo, Zhaochi Feng, Jan P. Hofmann, Bert M. Weckhuysen, Fengtao Fan, Can Li*

- Chem. Eur. J.*, 19(2013)14200–14204 5.831
54. Roles of cocatalysts in semiconductor-based photocatalytic hydrogen production
Jinhui Yang, Hongjian Yan, Xu Zong, Fuyu Wen, Meiyong Liu, Can Li*
Phil. Trans. R. Soc. A., 371(2013)20110430-1–20110430-15 2.891
55. Highly Active and Recyclable Sn-MWW Zeolite Catalyst for Sugar Conversion to Methyl Lactate and Lactic Acid
Qiang Guo, Fengtao Fan, Evgeny A. Pidko, William N. P. van der Graaff, Zhaochi Feng, Can Li, and Emiel J. M. Hensen
ChemSusChem, 6(2013)1352–1356 7.475
56. Photocatalytic activity for H₂ evolution of TiO₂ with tuned surface crystalline phase
Jing Zhang, Song Yan, Shanlin Zhao, Qian Xu, Can Li*
Applied Surface Science, 280(2013)304–311 2.112
57. Low-cost and high-performance CoMoS₄ and NiMoS₄ counter electrodes for dye-sensitized solar cells
Xiaojia Zheng, Jiahao Guo, Yantao Shi, Fengqiang Xiong, Wenhua Zhang, Tingli Ma, Can Li*
Chem. Commun., 49(2013)9645–9647 6.378
58. Enzyme confined in silica-based nanocages for biocatalysis in a Pickering emulsion
Jia Liu, Guojun Lan, Juan Peng, Ying Li, Can Li*, Qihua Yang*
Chem. Commun., 49(2013)9558–9560 6.378
59. The role of glutathione on shape control and photoelectrical property of cadmium sulfide nanorod arrays
Chunyan Yang, Sheng Liu, Mingrun Li, Xiuli Wang, Jian Zhu, Ruifeng Chong, Dong Yang, Wenhua Zhang, Can Li*
Journal of Colloid and Interface Science, 393(2013)58–65 3.172
60. A Theoretical Study on the Mechanism of Photocatalytic Oxygen Evolution on BiVO₄ in Aqueous Solution
Jingxiu Yang, Donge Wang, Xin Zhou, Can Li*
Chem. Eur. J., 2013, 19, 1320–1326 5.831
61. Time - resolved infrared spectroscopic investigation of roles of valence

- states of Cr in (La,Cr) - doped SrTiO₃ photocatalysts
Shuai Shen, Yushuai Jia, Fengtao Fan, Zhaochi Feng, Can Li*
Chinese Journal of Catalysis, 34(2013)2036–2040 1.304
62. Enhancement of visible-light-driven O₂ evolution from water oxidation on WO₃ treated with hydrogen
Gang Liu, Jingfeng Han, Xin Zhou, Lei Huang, Fuxiang Zhang, Xiuli Wang, Chunmei Ding, Xiaojia Zheng, Hongxian Han, Can Li*
Journal of Catalysis, 307(2013)148–152 5.787
63. Effects of Zn²⁺ and Pb²⁺ dopants on the activity of Ga₂O₃-based photocatalysts for water splitting
Xiang Wang, Shuai Shen, Shaoqing Jin, Jingxiu Yang, Mingrun Li, Xiuli Wang, Hongxian Han, Can Li*
Phys. Chem. Chem. Phys., 15(2013)19380–19386 3.829
64. Na⁺/K⁺ switch of enantioselectivity in G-quadruplex DNA-based catalysis
Changhao Wang, Guoqing Jia, Yinghao Li, Sufang Zhang, Can Li*
Chem. Commun., 49(2013)11161–11163 6.378
65. A robust Ru-PNNP catalyst system for the asymmetric hydrogenation of a,b-unsaturated ketones to allylic alcohol
Shengmei Lu, Qiang Gao, Jun Li, Yan Liu, Can Li*
Tetrahedron Letters, 54(2013)7013–7016 2.397
66. Catalytic properties of extraframework iron-containing species in ZSM-5 for N₂O decomposition
Guanna Li, Evgeny A. Pidko, Ivo A.W. Filot, Rutger A. van Santen, Can Li, Emiel J.M. Hensen
Journal of Catalysis, 308(2013)386–397 5.787
67. Stability of Extraframework Iron-Containing Complexes in ZSM-5 Zeolite
Guanna Li, Evgeny A. Pidko, Rutger A. van Santen, Can Li*, Emiel J. M. Hensen*
J. Phys. Chem. C, 117(2013)413–426 4.814
68. Hydrothermal syntheses and crystal structures of crystalline catalysts based on 3-D Ln³⁺-pdcd- frameworks and [BW₁₂O₄₀]⁵⁻ and their heterogeneous photocatalytic oxidation of thiophene
Weining Li, Feng Lin, Xingxing Li, Lancui Zhang, Wansheng You*, Zongxuan Jiang*

- Journal of Coordination Chemistry*, 66(2013)2829–2842 1.801
69. Superhigh capacity and rate capability of high-level nitrogen-doped grapheme sheets as anode materials for lithium-ion batteries
Dandan Cai, Suqing Wang, Peichao Lian, Xuefeng Zhu, Dongdong Li, Weishen Yang, Haihui Wang*
Electrochimica Acta, 90(2013)492–497 3.777
70. Metal–organic framework ZIF-8 nanocomposite membrane for efficient recovery of furfural via pervaporation and vapor permeation
Xinlei Liu, Hua Jin, Yanshuo Li, HelgeBux, Ziyi Hu, Yujie Ban, Weishen Yang*
Journal of Membrane Science, 428(2013)498–506 4.093
71. Oxygen permeation through Ca-contained dual-phase membranes for oxyfuel CO₂ capture
Hongbo Li, Yan Liu, Xuefeng Zhu, You Cong, Shuping Xu, Weiqing Xu, Weishen Yang*
Separation and Purification Technology, 114(2013)31–37 2.894
72. Dense ceramic oxygen permeable membranes and catalytic membrane Reactors
Yanying Wei, Weishen Yang, Jürgen Caro, Haihui Wang*
Chemical Engineering Journal, 220(2013)185–203 3.473
73. Stabilization of Low-Temperature Degradation in Mixed Ionic and Electronic Conducting Perovskite Oxygen Permeation Membranes
Yan Liu, Xuefeng Zhu, Mingrun Li, Huanyin Liu, You Cong, Weishen Yang*
Angew. Chem. Int. Edit., 52(2013)3232–3236 13.734
74. Electrochemical performances of spinel oxides as cathodes for intermediate temperature solid oxide fuel cells
Huanying Liu, Xuefeng Zhu, Mojie Cheng, You Cong, Weishen Yang*
International Journal of Hydrogen Energy, 38(2013)1052–1057 3.548
75. Improvement of hydrothermal stability of zeolitic imidazolate framework
Xinlei Liu, Yanshuo Li, Yujie Ban, Yuan Peng, Hua Jin, Helge Bu, Longy Xu, Jürgen Caroc, Weishen Yang*
Chem. Commun., 49(2013)9140–9142 6.378

76. $\text{Ce}_{0.85}\text{Sm}_{0.15}\text{O}_{1.925}\text{-Sm}_{0.6}\text{Sr}_{0.4}\text{Al}_{0.3}\text{Fe}_{0.7}\text{O}_3$ dual-phase membranes: one-pot synthesis and stability in a CO_2 atmosphere
Xuefeng Zhu*, Yan Liu, You Cong, Weishen Yang*
Solid State Ionics, 253(2013)57–63 2.046
77. $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ @C/graphene composite with improved cycling performance as cathode material for lithium-ion batteries
Le Zhang, Suqing Wang, Dandan Cai, Peichao Lian, Xuefeng Zhu, Weishen Yang, Haihui Wang*
Electrochimica Acta., 91(2013)108–113 3.777
78. High rate capability of TiO_2 /nitrogen-doped graphene nanocomposite as an anode material for lithium-ion batteries
Dandan Cai, Dongdong Li, Suqing Wang, Xuefeng Zhu, Weishen Yang, Shanqing Zhang, Haihui Wang*
Journal of Alloys and Compounds, 561(2013)54–58 2.39
79. Structure, nonstoichiometry, sintering and oxygen permeability of perovskite $\text{SrCo}_{1-2x}(\text{Fe,Nb})_x\text{O}_{3-\delta}$ ($x = 0.05, 0.10$) oxides
Jinna Zhang, Hui Lu*, Jianzhou Gui, Jong Pyo Kim, Sou Hwan Son, Jung Hoon Park*
Materials Science and Engineering B, 178(2013)443–448 1.846
80. Solvothermal synthesis of mixed-ligand metal-organic framework ZIF-78 with controllable size and morphology
Yujie Ban, Yanshuo Li, Xinlei Liu, Yuan Peng, Weishen Yang
Microporous and Mesoporous Materials, 173(2013)29–36 3.365
81. Organo-functionalized silica hollow nanospheres: synthesis and catalytic application
Xiaobo Li, Yan Yang, Qihua Yang*
J. Mater. Chem. A., 1(2013)1525–1535 6.101
82. Enzyme entrapped in polymer-modified nanopores: the effects of macromolecular crowding and surface hydrophobicity
Jia Liu, Juan Peng, Shuai Shen, Qianru Jin, Can Li, Qihua Yang
Chem. Eur. J., 19(2013)2711–2719 5.831
83. Nitrogen-doped carbon nanotubes derived from Zn-Fe-ZIF nanospheres and their application as efficient oxygen reduction electrocatalysts with in situ generated iron species

- Panpan Su, Hui Xiao, Jiao Zhao, Yi Yao, Zhigang Shao, Can Li *, Qihua Yang*
Chem. Sci., 4(2013)2941–2946 8.314
84. Assembly of ZIF nanostructures around free Pt nanoparticles: efficient size-selective catalysts for hydrogenation of alkenes under mild conditions
Peng Wang, Jiao Zhao, Xiaobo Li, Yan Yang, Qihua Yang, Can Li*
Chem. Commun., 49(2013)3330–3332 6.378
85. Engineering the Mesopores of Fe₃O₄@Mesosilica Core–Shell Nanospheres through a Solvothermal Post-Treatment Method
Yan Yang, Jia Liu, Shiyang Bai, Xiaobo Li, Qihua Yang*
Chem. Asian J., 8(2013)582–587 4.572
86. Preparation of Zn–Co–O mixed-metal oxides nanoparticles through a facile coordination polymer based process
Jiao Zhao, Yuliang Zhang, Panpan Su, Zongxuan Jiang, Qihua Yang*, Can Li*
Rsc Adv., 3(2013)4081–4085 2.562
87. Growth of Single- and Bilayer ZnO on Au(111) and Interaction with Copper
Xingyi Deng, Kun Yao, Keju Sun, Weixue Li, Junseok Lee, Christopher Matranga
J. Phys. Chem. C, 117(2013)11211–11218 4.814
88. Mechanistic Studies of Water Electrolysis and Hydrogen Electro-Oxidation on High Temperature Ceria-Based Solid Oxide Electrochemical Cells
Chunjuan Zhang, Yi Yu, Michael E. Grass, Catherine Dejoie, Wuchen Ding, Karen Gaskell, Naila Jabeen, Young Pyo Hong, Andrey Shavorskiy, Hendrik Bluhm, Weixue Li, Gregory S. Jackson, Zahid Hussain, Zhi Liu, Bryan W. Eichhorn
J. Am. Chem. Soc., 135(2013)11572–11579 10.677
89. Structure sensitivity of CO methanation on Co (0 0 0 1), (1 0 $\bar{1}$ 2) and (1 1 $\bar{2}$ 0) surfaces: Density functional theory calculations
Jinxun Liu, Haiyan Su, Weixue Li*
Catalysis Today, 215(2013)36–42 2.98
90. Crystallographic Dependence of CO Activation on Cobalt Catalysts: HCP versus FCC
Jinxun Liu, Haiyan Su, Dapeng Sun, Bingyan Zhang, Weixue Li*

- J. Am. Chem. Soc.*, 135(2013)16284–16287 10.677
91. Platinum-Modulated Cobalt Nanocatalysts for Low-Temperature Aqueous-Phase Fischer–Tropsch Synthesis
Hang Wang, Wu Zhou, Jinxun Liu, Rui Si, Geng Sun, Mengqi Zhong, Haiyan Su, Huabo Zhao, Jose A. Rodriguez, Stephen J. Pennycook, Juan Carlos Idrobo, Weixue Li, Yuan Kou, Ding Ma
J. Am. Chem. Soc., 135(2013)4149–4158 10.677
92. Atomistic Theory of Ostwald Ripening and Disintegration of Supported Metal Particles under Reaction Conditions
Runhai Ouyang, Jinxun Liu, Weixue Li*
J. Am. Chem. Soc., 135(2013)1760–1771 10.677
93. Adsorbed CO induced change of the adsorption site and charge of Au atoms on FeO(111)/Ru(0001)
Runhai Ouyang, Weixue Li*
Chinese Journal of Catalysis, 34(2013)1820–1825 1.304
94. A first principles study of the structure, electronic properties, and oxygen binding of FeO/Pt(111) and FeO₂/Pt(111)
Dapeng Sun, Weixue Li*
Chinese Journal of Catalysis, 34(2013)973–978 1.304
95. An atomistic thermodynamics study of the structural evolution of the Pt₃Ni(111) surface in an oxygen environment
Dapeng Sun, Yonghui Zhao, Haiyan Su, Weixue Li*
Chinese Journal of Catalysis, 34 (2013)1434–1442 1.304
96. First principles study of water activation on Cu ZnO catalysts
Kun Yao, Shasha Wang, Xiangkui Gu, Haiyan Su, Weixue Li*
Chinese Journal of Catalysis, 34(2013)1705-1711 1.304
97. Aerobic oxidative coupling of alcohols and amines over Au–Pd/resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines
Leilei Zhang, Wentao Wang, Aiqin Wang, Yitao Cui, Xiaofeng Yang, Yanqiang Huang, Xiaoyan Liu, Wengang Liu, Jinyoung Son, Hiroshi Ojic, Tao Zhang*
Green Chemistry, 15(2013)2680-2684 6.828
98. Catalysis by gold: New insights into the support effect

- Xiaoyan Liu, Aiqin Wang, Tao Zhang*, Chungyuan Mou*
Nano Today, 8(2013)403-416 17.689
99. Catalytic Conversion of Concentrated Glucose to Ethylene Glycol with Semicontinuous Reaction System
Guanhong Zhao, Mingyuan Zheng, Junying Zhang, Aiqin Wang, Tao Zhang*
Ind. Eng. Chem. Res., 52(2013)9566-9572 2.206
100. H₂ Production by Selective Decomposition of Hydrous Hydrazine over Raney Ni Catalyst under Ambient Conditions
Lei He, Yanqiang Huang, Aiqin Wang, Xiaodong Wang, Tao Zhang*
AIChE Journal., 59(2013)4297-4302 2.493
101. Mesoporous Ti-W oxide: synthesis, characterization, and performance in selective hydrogenolysis of glycerol
Yanhua Zhang, Xiaochen Zhao, Yao Wang, Likun Zhou, Junying Zhang, Jia Wang, Aiqin Wang, Tao Zhang*
J. Mater. Chem. A., 1(2013)3724-3732 6.101
102. One-Pot Conversion of Cellulose to Ethylene Glycol with Multifunctional Tungsten-Based Catalysts
Aiqin Wang, Tao Zhang*
Acc. Chem. Res., 46(2013)1377-1386 20.833
103. Origin of the high activity of Au/FeOx for low-temperature CO oxidation: Direct evidence for a redox mechanism
Lin Li, Aiqin Wang, Botao Qiao, Jian Lin, Yanqiang Huang, Xiaodong Wang, Tao Zhang *
Journal of Catalysis, 299(2013)90-100 5.787
104. Remarkable Performance of Ir1/FeOx Single-Atom Catalyst in Water Gas Shift Reaction
Jian Lin, Aiqin Wang, Botao Qiao, Xiaoyan Liu, Xiaofeng Yang, Xiaodong Wang, Jinxia Liang, Jun Li, Jingyue Liu*, Tao Zhang*
J. Am. Chem. Soc., 135(2013)15314-15317 10.677
105. Single-Atom Catalysts: A New Frontier in Heterogeneous Catalysis
Xiaofeng Yang, Aiqin Wang, Botao Qiao, Jun Li*, Jingyue Liu*, Tao Zhang*
Acc. Chem. Res., 46(2013)1740-1748 20.833

106. Stabilization mechanism and crystallographic sites of Ru in Fe-promoted barium hexaaluminate under high-temperature condition for N₂O decomposition
Yan Zhang, Xiaodong Wang*, Yanyan Zhu, Tao Zhang*
Applied Catalysis B: Environmental, 129(2013)382–393 5.825
107. Structure and phase analysis of one-pot hydrothermally synthesized FePO₄-SBA-15 as an extremely stable catalyst for harsh oxy-bromination of methane
Runqin Wang, Ronghe Lin, Yunjie Ding*, Jia Liu, Junhu Wang, Tao Zhang
Applied Catalysis A: General, 453(2013)235–243 3.41
108. Surface modification of Ni/Al₂O₃ with Pt: Highly efficient catalysts for H₂ generation via selective decomposition of hydrous hydrazine
Lei He, Yanqiang Huang, Aiqin Wang, Yu Liu, Xiaoyan Liu, Xiaowei Chen c, Juan Jos éDelgado, Xiaodong Wang, Tao Zhang*
Journal of Catalysis, 298(2013)1–9 5.787
109. Surfactant effects on the microstructures of Fe₃O₄ nanoparticlessynthesized by microemulsion method
Ting Lu, Junhu Wang, Jie Yin, Aiqin Wang, Xiaodong Wang, Tao Zhang*
Colloids and Surfaces A: Physicochem. Eng. Aspects, 436(2013)675–683 2.108
110. Synthesis of renewable diesel with hydroxyacetone and 2-methyl-furan
Guangyi Li, Ning Li, Shanshan Li, Aiqin Wang, Yu Cong, Xiaodong Wang, Tao Zhang*
Chem. Commun., 49(2013)5727–5729 6.378
111. Synthesis of renewable diesel with the 2-methylfuran, butanal and acetone derived from lignocelluloses
Guangyi Li, Ning Li, Jinfan Yang, Aiqin Wang, Xiaodong Wang, Yu Cong , Tao Zhang*
Bioresource Technology, 134(2013)66–72 4.750
112. Understanding the synergistic effects of gold bimetallic catalysts
Aiqin Wang, Xiaoyan Liu, Chungyuan Mou, Tao Zhang*
Journal of Catalysis, 308(2013)258–271 5.787
113. 离子液体介质中纤维素资源转化研究进展
李昌志, 王爱琴, 张涛

化工学报, 64(2013)182-197

114. A Review on the Synthesis and Applications of Mesostructured Transition Metal Phosphates
Ronghe Lin, Yunjie Ding*
Materials, 6(2013)217-243 2.247
115. Formation of 3-pentanone via ethylene hydroformylation over Co/activated carbon catalyst
Xiangen Song, Yunjie Ding*, Weimiao Chen, Wenda Dong, Yanpeng Pei, Juan Zang, Li Yan, Yuan Lu
Applied Catalysis A: General, 452(2013)155–162 3.41
116. Temperature-programmed desorption and surface reaction studies of CO on Co₂C
Yanpeng Pei, Yunjie Ding*, Juan Zang, Xiangen Song, Wenda Dong, Hejun Zhu, Tao Wang, Weimiao Chen
Chinese Journal of Catalysis 34(2013)1570–1575 1.304
117. 溶胶-凝胶法制备 Cu-ZnO/SiO₂ 催化剂及其催化乙酸甲酯氢解反应的性能
陈维苗, 凌晨, 丁云杰*, 王涛, 朱何俊, 吕元
石油化工, 42(2013)512–517
118. Aerobic oxidation of primary aliphatic alcohols over bismuth oxide supported platinum catalysts in water
Tianliang Lu, Zhongtian Du, Junxia Liu, Hong Ma, Jie Xu*
Green Chem., 15(2013)2215–2221 6.828
119. Conversion of furfural into cyclopentanone over Ni–Cu bimetallic catalysts
Yanliang Yang, Zhongtian Du, Yizheng Huang, Fang Lu, Feng Wang, Jin Gao, Jie Xu*
Green Chem., 15(2013)1932–1940 6.828
120. Conversion of Glucose to 5-Hydroxymethylfurfural Catalyzed by Metal Halide in N,N-Dimethylacetamide
Qiuhe Ren, Yizheng Huang, Hong Ma, Feng Wang, Jin Gao, Jie Xu*
Bio Resources., 8(2013)1563-1572 1.129
121. Conversion of Levulinate into Succinate through Catalytic Oxidative Carbon Carbon Bond Cleavage with Dioxygen

- Junxia Liu, Zhongtian Du, Tianliang Lu, Jie Xu*
ChemSusChem., 6(2013)2255-2258 7.475
122. Direct conversion of fructose-based carbohydrates to 5-ethoxymethylfurfural catalyzed by AlCl₃·6H₂O/BF₃·(Et)₂O in ethanol
Xiuquan Jia, Jiping Ma, Penghua Che, Fang Lu, Hong Miao, Jin Gao, Jie Xu*
Journal of Energy Chemistry, 22(2013)93–97 1.405
123. Gold Nanoclusters Confined in a Supercage of Y Zeolite for Aerobic Oxidation of HMF under Mild Conditions
Jiaying Cai, Hong Ma, Junjie Zhang, Qi Song, Zhongtian Du, Yizheng Huang, Jie Xu*
Chem. Eur. J., 19(2013)14215–14223 5.831
124. Heterogeneous Ceria Catalyst with Water-Tolerant Lewis Acidic Sites for One-Pot Synthesis of 1,3-Diols via Prins Condensation and Hydrolysis Reactions
Yehong Wang, Feng Wang*, Qi Song, Qin Xin, Shutao Xu, Jie Xu*
J. Am. Chem. Soc., 135(2013)1506–1515 10.677
125. Hydrolysis of hemicellulose catalyzed by hierarchical H-USY zeolites – The role of acidity and pore structure
Lipeng Zhou, Meiting Shi, Qiyong Cai, Lin Wu, Xiaopeng Hu, Xiaomei Yang*, Chen Chen, Jie Xu
Microporous and Mesoporous Materials, 169(2013)54–59 3.365
126. Immobilized Ru Clusters in Nanosized Mesoporous Zirconium Silica for the Aqueous Hydrogenation of Furan Derivatives at Room Temperature
Jiazhi Chen, Fang Lu,* Junjie Zhang, Weiqiang Yu, Feng Wang, Jin Gao, Jie Xu*
ChemCatChem., 5(2013)2822–2826 5.181
127. Insights into support wettability in tuning catalytic performance in the oxidation of aliphatic alcohols to acids
Min Wang, Feng Wang*, Jiping Ma, Chen Chen, Song Shi, Jie Xu*
Chem. Commun., 2013, 49, 6623–6625 6.378
128. Lignin depolymerization (LDP) in alcohol over nickelbased catalysts via a fragmentation-hydrogenolysis process
Qi Song, FengWang*, Jiaying Cai, YehongWang, Junjie Zhang, Weiqiang

- Yu, Jie Xu*
Energy Environ. Sci., 2013, 6, 994–1007 11.653
129. Lignosulfonate-based heterogeneous sulfonic acid catalyst for hydrolyzing glycosidic bonds of polysaccharides
Xiaochen Zhang, Zhe Zhang, Feng Wang*, Yehong Wang, Qi Song, Jie Xu*
Journal of Molecular Catalysis A: Chemical, 377(2013)102–107 3.187
130. Nanocrystalline gold supported on NaY as catalyst for the direct oxidation of primary alcohol to carboxylic acid with molecular oxygen in water
Lipeng Zhou, Wenjun Yu, Lin Wu, Zhen Liu, Haijun Chen, Xiaomei Yang*, Yunlai Su, Jie Xu
Applied Catalysis A: General, 451(2013)137–143 3.41
131. Preparation of hydrophobic hollow silica nanospheres with porous shells and their application in pollutant removal
Song Shi, Min Wang, Chen Chen, Fang Lu, Xi Zheng, Jin Gao, Jie Xu*
Rsc Adv., 2013, 3, 1158–1164 2.562
132. Schiff base polymers derived from 2,5-diformylfuran
Tengfei Xiang, Xiumin Liu, Ping Yi, Mingming Guo, Yusheng Chen, ChrysWesdemiotis, Jie Xu, Yi Pang*
Polym Int., 62(2013)1517–1523 2.125
133. Selective decomposition of cyclohexyl hydroperoxide by copper ion-containing quaternary ammonium salts in alkali-free medium
Xi Zheng, Min Wang, Zhiqiang Sun, Junxia Liu, Jiping Ma, Jie Xu*
Catalysis Communications, 40(2013)55-58 2.915
134. Sulfonated carbon catalyzed oxidation of aldehydes to carboxylic acids by hydrogen peroxide
Lipeng Zhou, Beibei Dong, Si Tang, Hong Ma, Chen Chen, Xiaomei Yang, Jie Xu
Journal of Energy Chemistry, 22(2013)659–664 1.405
135. Sulfonated hierarchical H-USY zeolite for efficient hydrolysis of hemicellulose/cellulose
Lipeng Zhou, Zhen Liu, Meiting Shi, Shanshan Du, Yunlai Su, Xiaomei Yang*, Jie Xu
Carbohydrate Polymers, 98(2013)146–151 3.479

136. Sulfonic Acid Resin–Catalyzed Oxidation of Aldehydes to Carboxylic Acids by Hydrogen Peroxide
Xiaomei Yang, Si Tang, Tianliang Lu, Chen Chen, Lipeng Zhou, Yunlai Su, Jie Xu
*Synthetic Communications*1, 43(2013)979–985 1.06
137. Super-hydrophobic yolk–shell nanostructure with enhanced catalytic performance in the reduction of hydrophobic nitroaromatic compounds
Song Shi, Min Wang, Chen Chen, Jin Gao, Hong Ma, Jiping Ma, Jie Xu*
Chem. Commun., 49(2013)9591-9593 6.378
138. Alkali-treatment of template-containing MCM-22 zeolite and its application in alkylation and transalkylation reactions
Kefeng Liu, Sujuan Xie, Huijuan Wei, Xiujie Li, Shenglin Liu, Longya Xu*
Applied Catalysis A: General, 468(2013)288–295 3.41
139. Determination of different acid sites in Beta zeolite for anisole acylation with acetic anhydride
Huijuan Wei, Kefeng Liu, Sujuan Xie, Wenjie Xin, Xiujie Li, Shenglin Liu, Longya Xu*
Journal of Catalysis, 307(2013)103–110 5.787
140. Improvement of vapor-phase silylation and thermal stability of silylated MCM-22 zeolite
Ningning Gao, Sujuan Xie, Shenglin Liu, Xiujie Li, Longya Xu
J Porous Mater., 20(2013)1217–1224 1.348
141. Transalkylation of Phenol with Cumene on Zeolite Catalysts
Shengjun Huang, Shuang Zhang, Lili Yu, Zhenni Liu, Wenjie Xin, Sujuan Xie, Longya Xu*
Ind. Eng. Chem. Res., 52(2013)10996–11000 2.206
142. Synthesis of NAD analogs to develop bioorthogonal redox system
Debin Ji, Lei Wang, Wujun Liu, Shuhua Hou, K. ZongBao Zhao *
Sci China Chem., 56(2013)296–300 1.327
143. A mild method for generation of o-quinone methides under basic conditions. The facile synthesis of trans-2,3-dihydrobenzofurans
Muwang Chen, Liangliang Cao, Zhishi Ye, Guofang Jiang, Yonggui Zhou*
Chem. Commun., 49(2013)1660–1662 6.378

144. An efficient route to chiral N-heterocycles bearing a C–F stereogenic center via asymmetric hydrogenation of fluorinated isoquinolines
Ranning Guo, Xianfeng Cai, Lei Shi, Zhishi Ye, Muwang Chen, Yonggui Zhou*
Chem. Commun., 49(2013)8537–8539 6.378
145. Asymmetric Transfer Hydrogenation of 3-Nitroquinolines: Facile Access to Cyclic Nitro Compounds with Two Contiguous Stereocenters
Xianfeng Cai, Muwang Chen, Zhishi Ye, Ranning Guo, Lei Shi, Yanqin Li, Yonggui Zhou*
Chem. Asian J., 8(2013)138–1385 4.572
146. Enantioselective Iridium-Catalyzed Hydrogenation of 1- and 3-Substituted Isoquinolinium Salts
Zhishi Ye, Ranning Guo, Xianfeng Cai, Muwang Chen, Lei Shi, Yonggui Zhou*
Angew. Chem. Int. Edit., 52(2013)3685–3689 13.734
147. Enantioselective Synthesis of Endocyclic β -Amino Acids with Two Contiguous Stereocenters via Hydrogenation of 3-Alkoxy carbonyl-2-Substituted Quinolines
Zhangpei Chen, Zhishi Ye, Muwang Chen, Yonggui Zhou*
Synthesis, 45(2013)3239–3244 0.696
148. Homogeneous palladium-catalyzed asymmetric hydrogenation
Qingan Chen, Zhishi Ye, Ying Duan, Yonggui Zhou*
Chem. Soc. Rev., 42(2013)497–511 24.892
149. Iridium-catalyzed asymmetric hydrogenation of dibenzo[b,f][1,4]thiazepines
Ranning Guo, Kai Gao, Zhishi Ye, Lei Shi, Yanqin Li, Yonggui Zhou*
Pure Appl. Chem., 85(2013)843–849 3.386
150. Palladium-Catalyzed Asymmetric Hydrogenolysis of N-Sulfonyl Aminoalcohols via Achiral Enesulfonamide Intermediates
Changbin Yu, Yonggui Zhou*
Angew. Chem. Int. Edit., 52(2013)13365–13368 13.734
151. Palladium-catalyzed asymmetric hydrogenation of fluorinated quinazolinones
Ying Duan, Xiaoyan Zhu, Junan Ma, Yonggui Zhou*

- Tetrahedron Letters*, 54(2013)6161–6163 2.397
152. Solid–Solid Heterogeneous Catalysis: The Role of Potassium in Promoting the Dehydrogenation of the Mg(NH₂)₂/2 LiH Composite
Jianhui Wang, Ping Chen,* Hongge Pan, Zhitao Xiong, Mingxia Gao, Guotao Wu, Chu Liang, Cao Li, Bo Li, Jieru Wang
ChemSusChem., 6(2013)2181–2189 7.475
153. The effect of lanthanum doping on activity of Zn-Al spinel for transesterification
Qianhe Liu, Lei Wang, Congxin Wang, Wei Qu, Zhijian Tian, Huaijun Ma, Donge Wang, Bingchun Wang, Zhusheng Xu
Applied Catalysis B: Environmental, 136–137(2013)210–217 5.825
154. Influence of reaction conditions on one - step hydrotreatment of lipids in the production of iso–alkanes over Pt/SAPO–11
Congxin Wang, Qianhe Liu, Xuebin Liu, Lijun Yan, Chen Luo, Lei Wang, Bingchun Wang, Zhijian Tian *
Chinese Journal of Catalysis, 34(2013)1128–1138 1.304
155. 离子热法合成 AEL 磷酸铝分子筛膜及其机理研究
李科达, 厉晓蕾, 王亚松, 李大伟, 刘浩, 徐仁顺, 田志坚*
Acta. Chim. Sinica, 71(2013)573–578 0.622