

# 1997年在国内外杂志发表的文章目录

## 一、国际刊物：

- 01 Promotional Effect of Ru on the Dehydrogenation and Aromatization of Methane in the Absence of Oxygen Over Mo/HZSM-5 Catalysts  
Yuying Shu, Yide Xu, She-Tin Wong, Linsheng Wang, and Xie-xian Guo  
Journal of Catalysis, 170(1997)11-19
- 02 Selective hydrogenation of cinnamaldehyde to cinnamyl alcohol on L-zeolite supported catalysts  
G.-j. Li, T. Li, Y.-D. Xu, S.-T. Wong, X.-X. Guo  
Studies in Surface Science and Catalysis, 105(1997)12031210
- 03 Growth of oriented zeolite crystal membranes  
Mojie Chen, Liwu Lin, Weishen Yang, Yashu Yang, Yide Xu and Xinsheng Li  
Studies in Surface Science and Catalysis, 105(1997)2233-2240
- 04 The aromatization of methane over MO/HZSM-5 zeolites without using oxidants  
Mao-song Xie, Xu Yang, Wen-heng Chen, Long-xiang Tao, Xue-lin Wang, Gui-fen Xu, Ling-sheng Wang, Yi-de Xu, She-tian Liu and Xie-xian Guo  
Studies in Surface Science and Catalysis, 105(1997) 869-876
- 05 Effect of basicity and adding CO<sub>2</sub> in the feed on the oxidative coupling of methane over K<sub>2</sub>O and SrO promoted La<sub>2</sub>O<sub>3</sub>/ZnO catalysts  
Yide Xu, Lin Yu, Xie-xian Guo  
Applied Catalysis A:General, 164(1997)47-57
- 06 Methane dehydrogenation and aromatization in the absence of oxygen on Mo/HZSM-5: A study on the interaction between Mo species and HZSM-5 by using <sup>27</sup>Al and <sup>29</sup>Si MAS NMR  
W. Liu, Y. Xu, She-Tin Wong, L. Wang, J. Qiu, N. Yang  
Journal of Molecular Catalysis A: Chemical, 120(1997) 257-265
- 07 Promoting effect of doped cobalt on catalysis of SiO<sub>2</sub> suprtd Rhodium for propylene hydroformylation  
Lin Huang and Yide Xu  
React. Kinet. Catal. Lett., 61(1997)397-404
- 08 Surface chemistry and catalysis of SiO<sub>2</sub>-supported RhCo<sub>3</sub>(CO)<sub>12</sub>  
Lin Huang, Anming Liu, Yide Xu  
Journal of Molecular Catalysis, A: Chemical 124(1997)57-66
- 09 Formation of bimetallic RhCo<sub>3</sub> clusters from monometallic carbonyl clusters on SiO<sub>2</sub> as probed by hydroformylation  
Lin Huang  
Journal of Molecular Catalysis, A: Chemical 125(1997) 47-52
- 10 Activity and stability enhancement of Mo/HZSM-5-based catalysts for methane non-oxidative transformation to aromatics

- 11 Methane direct conversion to aromatic hydrocarbons at low reaction temperature  
Liliana B. Pierella, Linsheng Wang and Oscar A. Anunziata  
React. Kinet. Catal. Lett. 60(1997)012-106
- 12 Transient kinetics of methane dehydrogenation and aromatisation: experiments and modeling  
Y. Schuurman, T. Decamp, A. Pantazidis, Y. -D Xu, and Z. C. Mirodatos  
Studies in Surface Sciences and Catalysis, 109(1997)351-360
- 13 Surface-Embedded oxygen: electronic structure of Ag(111) and Cu(poly) oxidized at atmospheric pressure  
Th. Schedel-Niedrig, X. Bao, M. Muhler and R. Schlogl  
Ber. Bunsenges. Phys. Chem. 7(1997)994-1006
- 14 The adsorption and reaction of cyclohexanone on the Pt(111) surface  
Shuxian Zhuang, Xianfeng Wang, Xuming Wei, Yinsheng Wang, Suzheng Ren, Runsheng Zhai  
Surface Science, 374(1997) 429-433
- 15 An AES, UPS and HREELS study of the oxidation and reaction of Nb(110)  
Yinsheng Wang, Xuming Wei, Zhijian Tian, Yuming Cao, Cao Yuming, Runsheng Zhai, T. Ushikubo, K. Sato, Shuxian Zhuang  
Surface Science, 372(1997) 285-290
- 16 Simulation of inverse spillover in steam reforming of methane and water-gas shift with the Monte Carlo method  
Dezheng Wang and Dongbai Liang  
Studies in Surface Science and Catalysis, 112(1997)367-376
- 17 Ultraviolet Raman spectroscopy characterization of coke formation in zeolites  
Can Li and Peter C. Stair  
Catalysis Today, 33(1997)0353-360
- 18 The modifacaton of molybdenum nitrides: the effect of the second metal component  
Y. Li, Y. Zhang, R. Raval, Can Li, R. Zhai and Q. Xin  
Catalysis Letters, 48(1997) 239-245
- 19 Coke formation in zeolites studied by a new technique: ultraviolet resonance Raman spectroscopy  
Can Li and Peter C. Stair  
Studies in Surface Science and Catalysis 105(1997)599-605
- 20 Adsorption and migration of hydrogen on different surface sites of  $\gamma$ -Mo<sub>2</sub>N catalyst  
Yaojun Zhang, Yongxue Li, Can Li and Qin Xin  
Studies in Surface Science and Catalysis, 112(1997)457-464
- 21 Spectroscopic studies of oxygen spillover on Pt/CeO<sub>2</sub> catalyst  
Can Li, Yongzhe Song, Yanxin Chen, Qin Xin, Xiuwen Han, Wenzhao Li  
Studies in Surface Science and Catalysis 112(1997)439-446

- 22 Basic sites of Y zeolite characterized by the adsorption of boric acid trimethyl ester  
Jianke Liu, Pinlian Ying, Qin Xin and Can Li  
*Zeolites*, 19(1997)197-199
- 23 Insitu probing of surface sites on supported molybdenum nitride catalyst by CO adsorption  
Shuwu Yang, Can Li, Jiang Xu and Qin Xin  
*J. Chem. Soc., Chem. Commun.* (1997) 1247-1248
- 24 Ultraviolet Raman spectroscopy of catalysts and other solids  
Peter C. Stair and Can Li  
*J. Vac. Sci. Technol.* 15(1997) 1679-1684
- 25 Ab initio effective potential calculation on  $\gamma$ -Mo<sub>2</sub>N-thiophene systems  
Chen Rong and Xin Qin  
*Journal of Molecular Catalysis A: Chemical*, 127(1997)191-202
- 26 Surface species and the stability of  $\gamma$ -Mo<sub>2</sub>N  
Z. B. Wei, Q. Xin, P. Grange, B. Delmon  
*Solid State Ionics*, 101-103(1997) 761-767
- 27 TPD and TPR studies of molybdenum nitride  
Zhaobin Wei, Qin Xin, P. Grange and B. Delmon  
*Journal of Catalysis*, 168(1997) 176-182
- 28 Partial oxidation of methane to syngas over nickel based catalysts modified by alkali metal oxide and rare earth oxide  
Miao Qing, Xiong Guoxing, Sheng Shishan, Cui Wei, Xu Ling, Guo Xiexian  
*Applied Catalysis A: General* 154(1997) 17-27
- 29 Control the directions of oxidative transformation of methane over nickel-based catalysts by acid-base properties  
Qing Miao, Guoxing Xiong, Shishan Sheng, Xiexian Guo  
*Reaction Kinetics and Catalysis Letters*, 62(1997) 363-370
- ## 二、 国内英文刊物
- 01 Non-oxidative dehydro-oligomerization of methane to higher molecular weight hydrocarbons at low temperatures  
Wang Linsheng, Xu Yide and Tao Longxiang  
*Science in China*, 40(1997) 161-164
- 02 Production of light olefins from CO<sub>2</sub> hydrogenation over Fe/Silicalite-2 catalyst I. Catalytic reactivity and reaction mechanism  
Xu Long-ya, Wang Qing-xia, Liang Dongbai, Lin Liwu, Cui wei, Xu Yi-De  
*Journal of Natural Gas Chemistry*, 6(1997) 11-20
- 03 Production of light olefins from CO<sub>2</sub> hydrogenation over Fe/Silicalite-2 catalyst II. Promotion effect of MnO promoter  
Xu Long-ya, Wang Qing-xia, Liang Dongbai, Lin Liwu, Cui wei, Xu Yi-de  
*Journal of Natural Gas Chemistry*, 6(1997)21-29
- 04 Production of light olefins from CO<sub>2</sub> hydrogenation over Fe/Silicalite-2 catalyst III. Promotion effect of K<sub>2</sub>O promoter

- 05 Production of light olefins from CO<sub>2</sub> hydrogenation over Fe/Silicalite-2 catalyst IV. Performance of the K-Fe-MnO/Si-2 catalyst  
Xu Long-ya, Wang Qing-xia, Liang Dongbai, Lin Liwu, Xu Yi-de  
Journal of Natural Gas Chemistry, 6(1997) 111-120
- 06 Studies on the formation of bimetallic Rh-Co clusters from monometallic rhodium and cobalt clusters  
Huang Lin, Xu Yide  
Journal of Natural Gas Chemistry, 6(1997) 188-197
- 07 R studies on the thermal decomposition of [Rh<sub>6</sub>(CO)<sub>16</sub>+Co<sub>4</sub>(CO)<sub>12</sub>]/SiO<sub>2</sub>: Evidence for the formation of RhCo<sub>3</sub>(CO)<sub>12</sub>/SiO<sub>2</sub>  
Huang Lin, Xu Yide  
Journal of Natural Gas Chemistry, 6(1997)198-213
- 08 Effect of sulfurization on the physcl and catalytic properties of HZSM-5 zeolites  
Wang, Lin-Sheng, Xu Yi-De, Tao, Long-Xiang  
Journal of Natural Gas Chemistry, 6(1997)247-251
- 09 A HREELS-study of the adsorption of formic acid on slightly oxidized Nb(110) surface  
WANG Yinsheng, WEI Xuming, TIAN Zhijian, ZHAI Runsheng, T. Ushikubo, K. Sato and ZHUANG Shuxian  
Science in China,40(1997)9-14
- 10 High resolution electron energy loss spectroscopy study of the oxidation of Nb(110) surface  
Wang Yinsheng, Wei Xuming, Tian Zhijian, Zhai Runsheng, T. Ushikubo, K. Sato and Zhuang Shuxian  
Chinese Science Bulletin, 42(1997) 384-387
- 11 Synthesis and hydrodesulfruization of zirconium binary nitrides  
ZHANG Yaojun, ZHAO Xiuge, ZHOU Zhenhua, YAN Weihong, YING Pinliang and XIN Qin  
Chinese Science Bulletin, 42(1997) 1274-1278
- 12 reparation of gamma-Al<sub>2</sub>O<sub>3</sub> composite membrane and examination of membrane defects  
LI Aneu, ZHAO Hongbin, GU Jinghua and XIONG Guoxing  
Science in China(Series B), 40(1997) 31-36
- 13 Dependence of presence of defect in ?- Al<sub>2</sub>O<sub>3</sub> toplayer on structure of support  
Li Anwu, ZHAO Hongbin, GU Jinghua and XIONG Guoxing  
Progress in Natural Science, 7(1997) 187-193
- 14 Porous noble metal / ceramic catalytic membranes prepared by modification of the surface of sol particles  
ZHAO Hongbin, LI Anwu, GU Jinghua, SHENG Shishan and XIONG Guoxing  
Chinese Science Bulletin, 42(1997)817-821

- 15 Palladium/ceramic composite membranes prepared by novel electroless plating procedure  
ZHAO Hongbin, LI Anwu, GU Jinghua, SHENG Shishan and XIONG Guoxing  
Chinese Science Bulletin, 42(1997) 903-907

### 三、 国内中文刊物

- 01 Silicalite-1 分子筛膜管上的纯气体渗透性能

程谋杰, 徐晓春, 杨维慎, 刘杰, 杨亚书, 徐奕德, 林励吾  
催化学报, 18 (1997) 3-4

- 02 甲烷无氧脱氢芳构化催化剂 Mo/HZSM-5 的研究

刘薇, 徐奕德, 王志龙, 王志胜  
催化学报, 18 (1997) 216-220

- 03 添加Ru的Mo/HZSM-5催化体系上的甲烷无氧脱氢芳构化

舒玉瑛, 徐奕德, 王林胜, 王志龙, 郭燮贤  
催化学报, 18 (1997) 392-396

- 04 甲烷在钼/含磷五元环沸石催化剂上的无氧芳构化

舒玉瑛, 徐奕德, 王林胜, 郭燮贤  
分子催化, 11 (1997) 173-179

- 05  $^{27}\text{Al}$ 和 $^{29}\text{Si}$  MAS-NMR 对 Mo/HZSM-5 催化剂的研究

刘薇, 徐奕德, 李丽云, 胡红兵  
物理化学学报, 13 (1997) 693-699

- 06 强氧化条件下非晶态NI-ZR合金的表面结构及组成表征

宋真, 谭大力, 管宪文, 翟润生, 包信和, 孙文声, 闵恩泽  
化学物理学报, 10 (1997) 205-208

- 07 硫酸交联壳聚糖湿膜的 $^{13}\text{C}$  CP MAS NMR 研究

韩秀文, 江涛, 江成璋, 杨萍, 陆世维, 杨年华, 裴鉴卿  
波谱学杂志, 14 (1997) 121-126

- 08 硫酸交联壳聚糖干膜的 $^{13}\text{C}$  CP MAS NMR 研究

韩秀文, 江涛, 江成璋, 杨萍, 陆世维, 杨年华, 裴鉴卿  
波谱学杂志, 14 (1997) 115-172

- 09 2, 2-二甲基-3-(2, 2-二氯乙烯基) 环丙烷羧酸乙(甲) 酯及其合成中间体的结构测定

杨瑛, 陆世维, 刘秀梅, 刘宪春, 赵琦, 韩秀文  
波谱学杂志, 14 (1997) 253-256

- 10 氧碘化学激光中BHP的NMR研究

陈文武, 李富岭, 刘万发, 韩秀文, 陈方, 杨柏龄, 庄琦  
波谱学杂志, 14 (1997) 495-498

11 Pyridine hydrodenitrogenation over nitrided Co-Mo/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> catalyst

Yang Shuwu, Xu Jiang, Yan Weihong, Ying Pinliang, Xin Qin

Chinese Journal of Catalysis, 18(1997)179-180

12 CuCl/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> 体系的原位红外光谱研究

朱月香, 谢有畅, 唐有祺, 高兴涛, 辛勤

催化学报, 18 (1997) 64-67

13 沉淀介质对合成醇Cu-Co-Fe系催化剂的影响

徐杰, 杜宝石, 辛勤, 黄海微

催化学报, 18 (1997) 194-198

14 RhCo双金属催化剂的研究

V. Rh<sub>2</sub>Co<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>上CO 吸附态的动力行为与CO 取代

陈耀强, 龚茂初, 曹昭, 周建略, 陈豫, 辛勤, 郭燮贤

催化学报, 18 (1997) 454-458

15 Rh<sub>2</sub>Co<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>上CO和NO的吸附性能及相互作用

羊彦衡, 陈耀强, 龚茂初, 曹昭, 陈豫, 辛勤, 应品良

催化学报, 18 (1997) 275-278

16 RhCo双金属催化剂的研究 V. Rh<sub>2</sub>Co<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>上的吸附中心类型及吸附性能

陈耀强, 曹昭, 龚茂初, 周建略, 陈豫, 辛勤, 张慧, 郭燮贤

化学学报 55(1997) 638-643

17 RhCo双金属催化剂的研究 III. Rh+Co/Al<sub>2</sub>O<sub>3</sub>上表面 氢化物及其动态行为

陈耀强, 龚茂初, 曹昭, 周建略, 陈豫, 辛勤, 张慧, 郭燮贤

化学学报, 55 (1997) 632-637

18  $\gamma$ -Mo<sub>2</sub>N合成过程中的热变化及中间产物的研究

杨树武, 徐江, 阎为宏, 应品良, 高秀英, 齐兴义, 辛勤

高等学校化学学报, 10 (1997) 1675-1679

19 Mo<sub>2</sub>N催化剂的XPS研究

张耀君, 纪纯新, 李新生, 盛世善, 辛勤

化学物理学报, 10 (1997) 538-543

20 锆双组元氮化物的制备及加氢脱硫性能

张耀君, 赵秀阁, 周振华, 阎为宏, 应品良, 辛勤

科学通报, 42 (1997) 488-491

21 Partial oxidation of methane over NiO/Al<sub>2</sub>O<sub>3</sub> modified by metal oxides

- 22 Preparation of SiO<sub>2</sub> polymeric sols for nanoporous ceramic membranes by polymeric sol-gel method  
Bao Yun, Zhao Hongbin, Sheng Shishan, Gu Jinghua, Chen Hengrong, Xiong Guoxing  
Chinese Journal of Catalysis, 18(1997) 89-90
- 23 碱金属和稀土金属氧化物修饰的NiO/Al<sub>2</sub>O<sub>3</sub>催化剂上甲烷部分氧化制取合成气的研究  
缪清, 熊国兴, 盛世善, 崔巍, 郭燮贤  
科学通报, 42 (1997) 495-497
- 24 清洁及部分氧化的Ni<sub>3</sub>Ti(0001)表面CO吸附的HREELS 研究  
姚丽君, 熊国兴, 王德峥, 盛世善, 陈恒荣, 魏绪明, 郭燮贤  
催化学报, 18 (1997) 115-119
- 25 贵金属/陶瓷催化膜制备: 溶胶粒子表面修饰技术  
赵宏宾, 李安武, 谷景华, 盛世善, 熊国兴\*  
科学通报, 42 (1997) 827-830
- 26 钯金属/陶瓷复合膜制备: 化学镀新过程  
赵宏宾, 李安武, 谷景华, 熊国兴\*  
科学通报, 42 (1997) 1078-1081
- 27 Li含量对镍基催化剂甲烷临氧催化转化的影响  
缪清, 熊国兴\*, 盛世善, 崔巍, 郭燮贤  
自然科学进展, 7 (1997) 359-362
- 28 底膜的孔径大小对? -Al<sub>2</sub>O<sub>3</sub>复合膜的顶膜完整性的影响  
李安武, 赵宏宾, 谷景华, 熊国兴  
自然科学进展, 7 (1997) 316-321
- 29 溶胶-凝胶法制备γ-Al<sub>2</sub>O<sub>3</sub>膜过程中体系的物理化学变化  
熊国兴, 邵宗平, 盛世善  
材料科学与工程, 增刊, 31-35, July (1997)
- 30 溶胶胶粒表面修饰技术——一种引入活性组分的制备方法  
熊国兴, 张玉红, 赵宏宾, 盛世善  
材料科学与工程, 增刊, 59-63, July (1997)
- 31 用聚合溶胶-凝胶法制备纳米孔陶瓷膜  
鲍筠, 谷景华, 陈恒荣, 盛世善, 熊国兴  
材料科学与工程, 增刊, 253-256, July (1997)
- 32 溶胶-凝胶制备技术与新型催化材料#II. γ-Al<sub>2</sub>O<sub>3</sub>陶瓷膜制备中浇铸与膜的完整性  
赵宏宾, 李安武, 谷景华, 熊国兴\*

- 33 溶胶-凝胶制备技术与新型催化材料#III.催化膜制备: 溶胶粒子表面修饰方法  
赵宏宾, 李安武, 谷景华, 盛世善, 熊国兴  
催化学报, 18 (1997) 368-372
- 34 碳化钼催化剂的XPS研究  
丁正新, 盛世善, 朱俊发, 朱晓雷, 熊国兴, 庄叔贤  
化学物理学报, 10 (1997) 237-240
- 35 溶胶-凝胶制备技术与新型催化材料IV.用新的化学镀饰过程制备钯金属复合膜  
赵宏宾, 李安武, 谷景华, 盛世善, 熊国兴  
催化学报, 18 (1997) 449-453
- 36 从工业产品出发制备多孔陶瓷膜  
李安武, 赵宏宾, 谷景华, 熊国兴  
科学通报, 42 (1997)