

2017 年发表论文目录

1. Mechanism of the self-condensation of GlcNH₂: insights from in situ NMR spectroscopy and DFT study, Lingyu Jia, Xingchen Liu, Yan Qiao, Christian Marcus Pedersen, Zhenzhou Zhang, Hui Ge, Zhihong Wei, Yanyan Chen, Xiaodong Wen, Xianglin Hou, Yingxiong Wang, Applied Catalysis B-Environmental, 2017, 202: 420-429
2. Predicting the structural and electronic properties of transition metal monoxides from bulk to surface morphology, Jin-Jia Liu, Yu Meng, Pengju Ren, BaoZhaorigetu, WenpingGuo, Dong-Bo Cao, Yong-Wang Li, Haijun Jiao, Zizhong Liu, MeilinJia, Yong Yang, Aiju Xu, Xiao-Dong Wen, Catalysis Today, 2017, 282, 96–104
3. Highly Dispersed Copper over beta-Mo₂C as an Efficient and Stable Catalyst for the Reverse Water Gas Shift (RWGS) Reaction, Xiao Zhang, Xiaobing Zhu, Lili Lin, Siyu Yao, Mengtao Zhang, Xi Liu, Xiaoping Wang, Yong-Wang Li, Chuan Shi, Ding Ma, ACS CATALYSIS, 2017, 7 (1): 912-918
4. About copper promotion in CH₄ formation from CO hydrogenation on Fe(100): A density functional theory study, Xinxin Tian, Tao Wang, Yong Yang, Yong-Wang Li, Jianguo Wang, Haijun Jiao, APPLIED CATALYSIS A-GENERAL, 2017, 530: 83-92
5. Insight into the structure and energy of Mo₂₇S_xO_y clusters, Xingchen Liu, Dongbo Cao, Tao Yang, Hao Li, Hui Ge, Manuel Ramos, Qing Peng, Albert K. Dearden, Zhi Cao, Yong Yang, Yong-Wang Li, Xiao-Dong Wen*, RSC ADVANCES, 2017, 7 (16): 9513-9520
6. Potassium promotion on CO hydrogenation on the chi-Fe₅C₂(111) surface with carbon vacancy, Shu Zhao, Xing-Wu Liu, Chun-Fang Huo, Yong-Wang Li, Jianguo Wang, Haijun Jiao*, APPLIED CATALYSIS A-GENERAL, 2017, 534: 22-29
7. Reaction of CO, H₂O, H₂ and CO₂ on the clean as well as O, OH and H precovered Fe(100) and Fe(111) surfaces, Shaoli Liu, Yong-Wang Li,* Jianguo

- Wanga, Haijun Jiao, CATALYSIS SCIENCE & TECHNOLOGY, 2017,7 (2): 427-440
8. Sizable dynamics in small pores: CO₂ location and motion in the alpha-Mg formate metal-organic framework, Yuanjun Lu, Bryan E. G. Lucier, Yue Zhang, Pengju Ren, Anmin Zheng, Yining Huang*, PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 2017,19 (8): 6130-6141
 9. Low-temperature hydrogen production from water and methanol using Pt/alpha-MoC catalysts, Lili Lin, Wu Zhou*, Rui Gao*, Siyu Yao, Xiao Zhang, Wenqian Xu, Shijian Zheng, Zheng Jiang, Qiaolin Yu, Yong-Wang Li, Chuan Shi, Xiao-Dong Wen, Ding Ma, NATURE, 2017,544 (7648): 80-+.
 10. Controllable deposition of Pt nanoparticles into a KL zeolite by atomic layer deposition for highly efficient reforming of n-heptane to aromatics, Dan Xu, Baoshan Wu,* Pengju Ren, Shuyuan Wang, Chunfang Huo, Bin Zhang, Wenping Guo, Lihua Huang, Xiaodong Wen, Yong Qin, Yong Yang*, Yongwang Li*, CATALYSIS SCIENCE & TECHNOLOGY, 2017,7 (6): 1342-1350
 11. Application of the dimensional reduction formalism to Pb_{9-x}Ba_x[Li₂(P₂O₇)₂(P₄O₁₃)₂] (x=0, 2, 6, 7): a series of phosphates with two types of isolated polyphosphate groups, Xiangyu Zhang, Hongping Wu, * Qiong Liu, Xiaoyu Dong, Yunlei Chen, Zhihua Yang, Xiao-DongWen, Shilie Pan,DALTON TRANSACTIONS,2017, 46 (14): 4678-4684
 12. High-Indexed Pt₃Ni Alloy Tetrahedral Nanoframes Evolved through Preferential CO Etching, Chenyu Wang, Lihua Zhang, Hongzhou Yang, Jinfong Pan, Jingyue Liu, Charles Dotse, Yiliang Luan, Rui Gao, Cuikun Lin, Jun Zhang, James P. Kilcrease, Xiaodong Wen,*Shouzhong Zou,* Jiye Fang*, NANO LETTERS, 2017,17 (4): 2204-2210
 13. Formation of solid thorium monoxide at near-ambient conditions as observed by neutron reflectometry and interpreted by screened hybrid functional calculations, Heming He , Jaroslaw Majewski *, David D. Allred, Peng Wang, Xiaodong Wen, Kirk D. Rector, JOURNAL OF NUCLEAR MATERIALS, 2017,487: 288-296
 14. Effect of sulfur-carbon interaction on sulfur poisoning of Ni/Al₂O₃ catalysts for

- hydrogenation, Junpeng Feng, Jinjia Liu, Mingxing Tang, Ligong Zhou, Xiaoyin Zhang, Xiaodong Wen, Hui Ge *, Debao Li, Xuekuan Li, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 2017,42 (10): 6727-6737
15. The role of water on the selective decarbonylation of 5-hydroxymethylfurfural over Pd/Al₂O₃ catalyst: Experimental and DFT studies, Qingwei Meng, Dongbo Cao, Guoyan Zhao, Chengwu Qiu, Xingchen Liu, Xiaodong Wen, Yulei Zhu*, Yongwang Li, APPLIED CATALYSIS B-ENVIRONMENTAL, 2017,212: 15-22
 16. Efficient decarbonylation of 5-hydroxymethylfurfural over an Pd/Al₂O₃ catalyst: Preparation via electrostatic attraction between Pd(II) complex and anionic Al₂O₃, Qingwei Meng, Chengwu Qiu, Hongyan Zheng, Xianqing Li, Yulei Zhu*, Yongwang Li, MOLECULAR CATALYSIS, 2017,433: 111-121
 17. Promoting effect of boron oxide on Ag/SiO₂ catalyst for the hydrogenation of dimethyl oxalate to methyl glycolate, Hongmei Chen, Jingjing Tan, Jinglei Cui, Xiaohai Yang, Hongyan Zheng, Yulei Zhu*, Yongwang Li, MOLECULAR CATALYSIS, 2017,433: 346-353
 18. Ratio-controlled synthesis of phyllosilicate-like materials as precursors for highly efficient catalysis of the formyl group, Fang Dong, Yulei Zhu,* Haijun Zhao, Zhicheng Tang, CATALYSIS SCIENCE & TECHNOLOGY, 2017, 7 (9): 1880-189
 19. In Situ XRD Study on Promotional Effect of Potassium on Carburization of Spray-dried Precipitated Fe₂O₃ Catalysts, Liwei Niu, Xingwu Liu, Xi Liu, Zhengang Lv, Chenghua Zhang, Xiaodong Wen, Yong Yang, Yongwang Li, CHEMCATCHEM, 2017,9 (9): 1691-1700
 20. Adsorption and dissociation of H₂O and CO₂ on the clean and O-pre-covered Ru(0001) surface, Peng Zhao, Yurong He , Shaoli Liu , Dong-Bo Cao , Xiaodong Wen, Hongwei Xiang, Yong-Wang Li , Haijun Jiao*, APPLIED CATALYSIS A-GENERAL, 2017,540: 31-36
 21. Synthesis, structure and photocatalytic activity of layered LaOInS₂, Akira Miura, * Takayoshi Oshima, Kazuhiko Maeda, * Yoshikazu Mizuguchi, Chikako Moriyoshi, Yoshihiro Kuroiwa, Yu Meng, Xiao-Dong Wen, Masanori Nagao, Mikio Higuchi, Kiyoharu Tadanaga, JOURNAL OF MATERIALS CHEMISTRY

- A, 2017,5 (27): 14270-14277
22. Alkalis in iron-based Fischer-Tropsch synthesis catalysts: distribution, migration and promotion , Jifan Li, Xiaofan Cheng, Chenghua Zhang,* Jue Wang, Wensheng Dong, Yong Yang, Yongwang Li, JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, 2017,92 (6): 1472-1480
23. Facile synthesis of self-assembled ultrathin alpha-FeOOH nanorod/graphene oxide composites for supercapacitors, Yuxue Wei, Ruimin Ding, Chenghua Zhang*, Baoliang Lv, Yi Wang, Chengmeng Chen, Xiaoping Wang, Jian Xu, Yong Yang, Yongwang Li, JOURNAL OF COLLOID AND INTERFACE SCIENCE, 2017,504: 593-602
24. Efficient Synthesis of Furfuryl Alcohol and 2-Methylfuran from Furfural over Mineral-Derived Cu/ZnO Catalysts, Xiaohai Yang, Xiaomin Xiang, Hongmei Chen, Hongyan Zheng, Yong-Wang Li, Yulei Zhu, CHEMCATCHEM, 2017,9 (15): 3023-3030
25. Atomic-layered Au clusters on alpha-MoC as catalysts for the low-temperature water-gas shift reaction , Siyu Yao, Xiao Zhang, Wu Zhou, Rui Gao, Wenqian Xu, Yifan Ye, Lili Lin, Xiaodong Wen, Ping Liu, Bingbing Chen, Ethan Crumlin, Jinghua Guo, Zhijun Zuo, Weizhen Li, Jinglin Xie, Li Lu, Christopher J. Kiely, Lin Gu, Chuan Shi, José A. Rodriguez, Ding Ma*, SCIENCE, 2017,357 (6349): 389-+
26. Promotion of the Inactive Iron Sulfide to an Efficient Hydrodesulfurization Catalyst, Hao Li, Jinjia Liu, Jiancong Li, Yongfeng Hu, Wennian Wang, Delin Yuan, Yandan Wang, Tao Yang, Lei Li, Houxiang Sun, Shenyong Ren, Xiaochun Zhu, Qiaoxia Guo, Xiaodong Wen, Yongwang Li, Baojian Shen*, ACS CATALYSIS, 2017,7 (7): 4805-4816
27. Covalent-bonding to irreducible SiO₂ leads to high-loading and atomically dispersed metal catalysts, Yifeng Zhu, Xiao Kong, Junqing Yin, Rui You, Bin Zhang, Hongyan Zheng , Xiaodong Wen, Yulei Zhu, Yong-Wang Li, JOURNAL OF CATALYSIS,2017, 353: 315-324
28. Construction of Synergistic Fe₅C₂/Co Heterostructured Nanoparticles as an

- Enhanced Low Temperature Fischer-Tropsch Synthesis Catalyst , Ce Yang, Bo Zhao, Rui Gao, Siyu Yao, Peng Zhai, Siwei Li, Jing Yu, Yanglong Hou, Ding Ma*, ACS CATALYSIS,2017, 7 (9): 5661-5667
29. Synthesis of Onion-Like delta-MoN Catalyst for Selective Hydrogenation , Shanmin Wang, Hui Ge, Wenpeng Han, Yongjun Li, Jianzhong Zhang, Xiaohui Yu, Jiaqian Qin, Zewei Quan, Xiaodong Wen, Xuekuan Li, Liping Wang, Luke L. Daemen,Duanwei He, and Yusheng Zhao, JOURNAL OF PHYSICAL CHEMISTRY C, 2017,121 (35): 19451-19460
30. Supramolecular Porphyrin Cages Assembled at Molecular-Materials Interfaces for Electrocatalytic CO Reduction, Ming Gong, Zhi Cao, Wei Liu, Eva M. Nichols, Peter T. Smith, Jeffrey S. Derrick, Yi-Sheng Liu, Jinjia Liu, Xiaodong Wen, Christopher J. Chang, ACS CENTRAL SCIENCE,2017, 3 (9): 1032-1040
31. Formation of radicals in coal pyrolysis examined by electron spin resonance , Tong Chang, Qiang Guo, Haigang Hao, BaoshanWu, Yong Yang*, AIP ADVANCES, 2017,7 (9):095303
32. The origin of Mo promotion during H₂ pretreatment on an Fe catalyst for Fischer-Tropsch synthesis, Liping Li, Caixia Hu, Wen Liu, Peng Fei, Xiaojing Cui,* Yongwang Li, Jian Xu, Rsc Advances,2017, 7(70): 44474-44481
33. Effects of experimental operations on the Fischer-Tropsch product distribution, Ruyi Yang, Liping Zhou, Junhu Gao, Xu Hao, Baoshan Wu, Yong Yang, Yongwang Li, CATALYSIS TODAY, 2017,298: 77-88
34. Iron Carbides in Fischer-Tropsch Synthesis: Theoretical and Experimental Understanding in Epsilon-Iron Carbide Phase Assignment , Xing-Wu Liu, Zhi Cao, Shu Zhao, Rui Gao, Yu Meng, Jian-Xin Zhu, Cameron Rogers, Chun-Fang Huo, Yong Yang, Yong-Wang Li, Xiao-Dong Wen, JOURNAL OF PHYSICAL CHEMISTRY C, 2017, 121 (39): 21390-21396
35. Environmental Transmission Electron Microscopy (ETEM) Studies of Single Iron Nanoparticle Carburization in Synthesis Gas, Xi Liu,* Chenghua Zhang, Yongwang Li, J. W. Niemantsverdriet, Jakob B. Wagner, Thomas W. Hansen, Acs Catalysis, 2017, 7(7): 4867-4875.

36. Facile Large-Scale Synthesis of Nanoscale Fayalite, α -Fe₂SiO₄, Qiang Chang, Chenghua Zhang, Chengwei Liu, Ke Li, Yifeng Li, Ajin V. Cheruvathur, Yong Yang, Yongwang Li, ChemistrySelect 2017, 2, 3356–3361
37. Photocatalytic C-C bond cleavage in ethylene glycol on TiO₂: A molecular level picture and the effect of metal nanoparticles, Xianchi Jin, Chao Li, Chenbiao Xua, Dawei Guan, Ajin Cheruvathur, Yi Wang, Jian Xu, Dong Wei, Hongwei Xiang, J.W. (Hans) Niemantsverdriet, Yongwang Li, Qing Guo, Zhibo Ma, Ren Su, Xueming Yang, JOURNAL OF CATALYSIS, 2017, 354: 37-45
38. Synthesis of monodisperse iron oxide nanoparticles: Effect of temperature, time, solvent, and surfactant, Yuxue Wei, Chenghua Zhang, Qiang Chang, Xianzhou Wang, Liwei Niu, Jian Xu, Yong Yang, Yongwang Li, INORGANIC AND NANO-METAL CHEMISTRY, 2017, 47(10): 1375-1379.
39. Facile synthesis of ECNU-20 (IWR) hollow sphere zeolite composed of aggregated nanosheets, Lin Zhang, Yunlei Chen, Jin-Gang Jiang, Le Xu, Wenping Guo,* Hao Xu, Xiao-Dong Wen, Peng Wu, DALTON TRANSACTIONS, 2017, 46 (45): 15641-15645
40. Inclusion of Zn into Metallic Ni Enables Selective and Effective Synthesis of 2,5-Dimethylfuran from Bioderived 5-Hydroxymethylfurfural, Xiao Kong, Yifeng Zhu, Hongyan Zheng, Yulei Zhu,* Zhen Fang, ACS SUSTAINABLE CHEMISTRY & ENGINEERING, 2017, 5 (12): 11280-11289
41. Alumina-Supported CoFe Alloy Catalysts Derived from Layered-Double-Hydroxide Nanosheets for Efficient Photothermal CO₂ Hydrogenation to Hydrocarbons, Guangbo Chen, Rui Gao, Yufei Zhao, Zhenhua Li, Geoffrey I. N. Waterhouse, Run Shi, Jiaqing Zhao, Mengtao Zhang, Lu Shang, Guiyang Sheng, Xiangping Zhang, Xiaodong Wen, Li-Zhu Wu, Chen-Ho Tung, and Tierui Zhang, ADV. MATER., 2017, 1704663
42. Quantitative Evidence for Lanthanide-Oxygen Orbital Mixing in CeO₂, PrO₂, and TbO₂, Stefan G. Minasian, Enrique R. Batista, Corwin H. Booth, David L. Clark, Jason M. Keit, Stosh A. Kozimor, Wayne W. Lukens, Richard L. Martin, David K.

- Shuh, S. Chantal E. Stieber, Tolek Tyliczcak, and Xiao-dong Wen, J. AM. CHEM. SOC., 2017, 139, 18052–18064
43. Theoretical prediction of a graphene-like structure of indium nitride: A promising excellent material for optoelectronics, Qing Peng, Xin Sun, Han Wang, Yunbo Yang, Xiaodong Wen, Chen Huang, Sheng Liu, Suvranu De, APPLIED MATERIALS TODAY, 2017, 7, 169-178.
44. 金属有机骨架材料Fe-MIL-100诱导的铁基费托催化剂的合成及催化性能研究, 杨向平, 郭晓雪, 张成华, 王小萍, 杨勇, 李永旺, 化学学报, 2017, 75 (4): 360-366
45. 无定形硅铝载体的酸性对费托蜡加氢裂化反应中柴油选择性的影响, 李涛, 车晓莉, 云一峰, 陶智超, 赵春利, 杨勇, 李永旺, 燃料化学学报, 2017, 05:589-595.
46. 大规模无卤素合成金属有机骨架材料Fe-MIL-100, 杨向平, 郭晓雪, 张成华, 杨勇, 李永旺, 材料研究学报, 2017, 08:569-575.
47. 费托合成铁基催化剂的设计基础:从理论走向实践, 温晓东, 杨勇, 相宏伟, 焦海军, 李永旺, 中国科学:化学, 2017, 11, 1298-1311.