



Department: School of Chemical Engineering
Professional field: Chemical Engineering and Technology
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Profile

1. Bachelor of science in Organic Chemical Engineering, master of science in Chemical Technology, Ph. D. in chemical technology, East China University of Science and Technology,
2. 1993.7-Assistant professor, lecturer, associate professor, East China University of Science and Technology Professor
3. 2011.8-2012.8 Visiting scholar, Princeton University, USA
4. 2006.12-2016.12 Director, East China University of Science and Technology
5. 2016.12-Associate Dean of Chemical Engineering

Research Field

Clean Energy, catalyst engineering, systems engineering, reactor design

Research results and selected published papers

1. Li MZ, Jiao LK, Nawaz M Asif, Cheng L, Meng C, Yang T, Tariq M, Liu DH*. A one-step synthesis method of durene directly from syngas using integrated catalyst of Cu/ZnO/Al₂O₃ and Co-Nb/HZSM-5. Chemical Engineering Science. 2019, 200(8): 103-112.
2. Li N, Meng C, Liu DH*. Deactivation kinetics with activity coefficient of the methanol to aromatics process over modified ZSM-5. Fuel. 2018, 233: 283-290.
3. Cheng L, Meng C, Yang T, Li N, Liu DH*. One-Step Synthesis of Aromatics from Syngas over K-Modified FeMnO/MoNi-ZSM-5. Energy & Fuels. 2018, 32 (9): 9756-9762.
4. Chen Y, Liu DH*. Reductive carbonylation of methanol for ethanol production in Rh-Ru-dppp-methyl iodide catalytic system under mild conditions – The effect of lithium salts and catalyst composition. Fuel Processing Technology, 2018, 171:301-307.
5. Yang T, Cheng L, Li N, Liu DH*. Effect of Metal Active Sites on the Product Distribution over Composite Catalysts in the Direct Synthesis of Aromatics from Syngas. Industrial & Engineering Chemistry Research, 2017, 56(41):11763-11772.
6. Zhang JQ, Fang DY, Liu DH*. Evaluation of Zr-Alumina in Production of Polyoxymethylene Dimethyl Ethers from Methanol and Formaldehyde: Performance Tests and Kinetic Investigations. Industrial & Engineering Chemistry Research. 2014, 53 (35): 13589-13597.
7. Chen Y, Liu DH, Yu Y. Insights into the ligand effects of rhodium catalysts toward reductive carbonylation of methanol to ethanol. Rsc Advances, 2017, 7(79):49875-49882.
8. Zhuang Z, Zhang J, Liu X, et al. Liquid-liquid equilibria for ternary systems polyoxymethylene dimethyl ethers + para-xylene + water[J]. Journal of Chemical Thermodynamics, 2016, 101:190-198.
9. 刘殿华; 房鼎业; 韩金平; 贾景科; 贾云; 冯成海; 高有智; 延建军. 醋酸乙烯的制备方法, 2014.03.26-2032.09.19, 中国, CN201210355557.8 (发明专利)
10. 刘殿华; 房鼎业; 罗万明; 刘宏伟; 王军峰; 李铖; 张荣; 赵光; 施敏浩. 一种由甲醇和甲醛制备聚甲氧基二甲醚的方法, 2014.01.15-2032.06.15, 中国, CN201210199266.4 (发明专利)
11. 刘殿华; 房鼎业; 张建强; 唐斌. 改性酸性阳离子交换树脂及其用途 2014.01.15-2032.06.15, 中国, CN201210199242.9 (专利)
12. 刘殿华; 房鼎业; 应卫勇; 曹发海; 丁百全; 李涛; 张海涛; 马宏方. 适用于气相放热反应的反应器, 2011.07.27-2030.01.21, 中国, CN201010110624.0 (专利)
13. 刘殿华; 房鼎业; 陈大胜; 李彩云; 姚春峰; 张建强. 甲醇脱水制备二甲醚的方法, 2012.11.14-2029.10.30, 中国, ZL200910197923.X (专利)