



Department: School of Chemical Engineering

Professional field: Chemical engineering and technology,
Oil and gas engineering

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Profile

Ph.D, Professor, a supervisor of doctor student, Director of international Joint Research Center of Green Energy Chemical Engineering. Technologies and related products in the fields of petrochemical industry has been engaged in. Many projects such as Sinopec, National Key Research, Postdoctoral Fund, 863, 973 pre-phase and 973 international cooperation key projects, etc as PI or participates has been conducted. Sinopec and Shanghai Science and Technology Progress Award have been achieved, and Outstanding Young Teacher of Shanghai has been also awarded. More than 100 papers and over 10 patents has been obtained.

Research Field

Heavy oil utilization processing and technology, development and application of super acid catalysts, development and application of nano-lubricant additives, light petroleum products utilization processing and technology, R&D of modified asphalt, the development of clean petroleum processing technology, the enrichment process and technology of low concentration refining gas.

Research results and selected published papers

1. Xinyao Nie, Tianjue Hou, Hongru Yao, Zheng Li, Xiaolong Zhou*, Chenglie Li, Effect of C9 petroleum resins on improvement in compatibility and properties of SBS-modified asphalt[J]. Petroleum Science and Technology, 2019,37(14):1704–1702.
2. Jing Liu, Yuena Ge, Yueqin Song, Ming Du, Xiaolong Zhou, JinAn Wang, Dimerization of isobutene on sodium exchanged Amberlyst15[J]. Catalysis Communications, 2019, 119: 57–61
3. Yun L, Chao G, Ting Zhang, Xinhui Feng, Xiaolong Zhou*, et al. Preparation of PolyHIPE beads and the application in bio-degradation of sulfate containing wastewater[J]. Reactive and Functional Polymers, 2018, 131:142-149.
4. Haitao Zhang, Run Zou, Xueqin Chen, Xiaolong Zhou*, Effect of comb-type copolymer on crystallization of paraffin from waxy oils and methyl ethyl ketone (MEK) -toluene dewaxing [J]. Petroleum Science and Technology, 2019, 37(11): 1323–1330
5. Yang Zhang, Xuesi Hong, Xinyun Shen, Xiaolong Zhou*, Heavy oil catalytic upgrading with microwave heating over a microwave absorbing catalyst USY/AC/Al₂O₃[J]. Energy Sources, Part A :Recovery, Utilization, and Environmental Effects, 2019, 41 (2): 229-236
6. Yun L, Chao G, Ting Zhang, Xinhui Feng, Xiaolong Zhou*, et al. Preparation of PolyHIPE beads and the application in bio-degradation of sulfate containing wastewater[J]. Reactive and Functional Polymers, 2018, 131:142-149.
7. Minchao Feng, Xiaolong Zhou*, Wei Hu, Wenyan Wang, Chenglie Li. Improved separation and utilization of light naphtha stock by adsorption process[J]. Adsorption Science & Technology, 2018, 36 (1-2) :732-742.
8. Xiaolong Zhou*, Feng Wang, Xulu Yuan, Minming Kuang, Yueqin Song, Chenglie Li. Usage of slurry oil for the preparation of crumb-rubber-modified asphalt emulsions[J]. Construction and Building Materials, 2015, 76:279–285.