



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

Education

2003: PhD, Chemical Engineering, ECUST, China.
2000: MS, Chemical Engineering, Anhui University of Technology, China.
1993: Diploma in Chemical Engineering, Anhui University of Technology, China.

Academic Experience

2012-present: Professor, School of Chemical Engineering, ECUST, China.
2005-2012: Associate professor, School of Chemical Engineering, ECUST, China.
2007-2008: Visiting Scholar, Chemical Engineering, Lehigh University, U.S.
2003-2005: Lecturer, School of Chemical Engineering, ECUST, China.

Research Field

1. Heavy oil deep processing and asphalt modification technology;
2. Simulation, design and engineering application of the distillation process of the split wall distillation column;
3. Clean the desulfurization and denitrification technology of vehicle gasoline and diesel;
4. VOCs emission reduction and soil treatment technology.

Research results and selected published papers

- 1. Hao Ling, William L. Luyben. New control structure for divided-wall columns. *Industrial & Engineering Chemistry Research*. 2009, 48, 6034-6049.
- 2. Hao Ling*, Qiang Wang, Benxian Shen. Hydroisomerization and hydrocracking of hydrocracker bottom for producing lube base oil. *Fuel Processing Technology*. 2009, 90, 531-535.
- 3. Zhi Cai, Benxian Shen, Weilian Liu, Zhong Xin, Hao Ling*. Liquid-phase cracking of dicyclopentadiene by reactive distillation. *Energy & Fuels*. 2009, 23, 4077-4081.
- 4. Hao Ling, William L. Luyben. Temperature control of the BTX divided-wall column. *Industrial & Engineering Chemistry Research*. 2010, 49, 189-203.
- 5. Hao Ling*, Zhi Cai, Hao Wu, Jun Wang, Benxian Shen. Remixing control for divided-wall column. *Industrial & Engineering Chemistry Research*, 2011, 50, 12694-12705.
- 6. Long Li, Zhi Cai, Benxian Shen, Zhong Xin, Hao Ling*. The intensification of cyclopentadiene dimerization by ultrasound irradiation. *Chemical Engineering. Technoogy*. 2011, 34(9), 1468-1472.
- 7. Haitao Shen, Zhen Mei, Benxian Shen, Hao Ling*. The desulfurization of fluid catalytic cracking gasoline by extractive distillation. *Energy Sources, Part A*. 2012, 34, 187-196.
- 8. Haitao Shen, Benxian Shen, Hao Ling*. Desulfurization of Fluid Catalytic Cracking Gasoline by Extractive Distillation Coupled with Hydrodesulfurization of Heavy Fraction. *Energy & Fuels*. 2013, 27 (9), 5153-5160.
- 9. Long Li, Benxian Shen, Hao Ling*. Gas phase cracking of dicyclopentadiene to produce cyclopentadiene. *Petroleum Science and Technology* 2013, 31:13, 1346-1352
- 10. Tian Jin, Qiang Yang, Chun Meng, Jian Xu, Honglai Liu, Jun Hu*, Hao Ling*. Promoting desulfurization capacity and separation efficiency simultaneously by the novel magnetic Fe₃O₄@PAA@MOF-199. *RSC Advances* 2014, 4, 41902-41909
- 11. Huiping Xu, Fenglou Wang, Benxian Shen, Hao Ling*. The synthesis and application of a new asphalt hot recycling agent. *Petroleum Science and Technology* 2014, 32:9, 1050-1057
- 12. Fenglou Wang, Jian Long, Benxian Shen, Hao Ling*. A Study of the regenerating effects of recycling agents on aged asphalts. *Petroleum Science and Technology* 2014, 32:10, 1160-1167
- 13. Qingcai Zhu, Benxian Shen, Hao Ling, Rong Gu. Effect of Various Supports on the Catalytic Activity of Pd for Cumene Hydroperoxide Hydrogenation. *Catalyst. Letter*. 2009, 132, 464-471.
- 14. Qingcai Zhu, Benxian Shen, Hao Ling, Rong Gu. Cumene hydroperoxide hydrogenation over Pd/C catalysts. *Journal of Hazardous Materials*. 2010, 175, 646-650.
- 15. Jian Long, Benxian Shen, Hao Ling, Jigang Zhao, and Juncai Lu. Novel Solvent Deasphalting Process by Vacuum Residue Blending with Coal Tar. *Industrial & Engineering Chemistry Research*. 2011, 50(19), 11259-11269.
- 16. Jian Long, Benxian Shen, Hao Ling, Jigang Zhao. Nonconventional Vacuum Residue Upgrading Blended with Coal Tar by Solvent Deasphalting and Fluid Catalytic Cracking. *Industrial & Engineering Chemistry Research*. 2012, 51(7), 3085-3068.
- 17. Ju Feng, Liu Changjun, Meng Chun, Gao Shuai, Ling Hao*. Reactive Adsorption Desulfurization of Hydrotreated Diesel over a Ni/ZnO-Al₂O₃-SiO₂ Adsorbent. *Energy & Fuels*, 2015, 29(9): 6057-6067.
- 18. Ju Feng, Liu Changjun, Meng Chun, Kai Li, Chun Meng, Gao Shuai, Ling Hao*. Reactive Adsorption Desulfurization of FCC gasoline over a Ca-doped Ni/ZnO-Al₂O₃-SiO₂ Adsorbent. *Energy Fuels*, 2016, 30 (8), 6688-6697
- 19. Hao Wu, Benxian Shen, Hao Ling*. Startup of divided wall column for high purity separation of aromatic reformat. *The Canadian Journal of Chemical Engineering*. 2018, DOI 10.1002/cjce.23181.
- 20. Hao Ling*, Jie Qiu, Tao Hua, Zhifeng Wang. Remixing Analysis of Four-product Dividing-Wall Columns. *Chemical Engineering Technology*. 2018, 41(7), 1359-1367.