



## 队伍成员

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## 固定人员

杨建丽 研究员

1957年生。1982年毕业于太原工学院化工系，1989年获美国Duquesne大学化学硕士学位，1994年获美国West Virginia大学化工硕士学位，1995年至今在中科院山西煤化所工作。现任研究员、课题组长。

研究方向主要涉及煤炭直接转化过程中的化学问题，包括：煤直接液化高活性催化剂、煤液化产物与石油渣油的化学提纯、液化产物的提质利用、高分子材料的再生利用、道路沥青的改性、煤中有害元素的稳定性以及与CO<sub>2</sub>封存/增强煤层气开采过程。目前承担有国家重点基础研究发展规划项目(973)、国家自然科学基金重大研究计划项目、国家自然科学基金面上基金项目、荷兰壳牌公司合作研究计划项目、欧盟第六框架计划项目的研究工作。

发表学术论文100余篇，申请专利10余项。指导在读博士生4名，硕士生5名。

近期主要论文：

1. J. Li, J.L. Yang, Z.Y. Liu, Hydro-treatment of a direct coal liquefaction residue and its components, *Catal. Today*, 130, 389–394, 2008
2. S.Q. Guo, J.L. Yang, Z.Y. Liu, The fate of fluorine and chlorine during thermal treatment of coals, *Environ. Sci. Technol.*, 40 (24), 7886–7889, 2006.
3. J.D. Yan, J.L. Yang, Z.Y. Liu, SH radical: The key intermediate in sulfur transformation during thermal processing of coal, *Environ. Sci. Technol.*, 39 (13), 5043–5051, 2005.
4. Y.B. Xue, J.L. Yang, Z.Y. Liu, Z.Y. Wang, Z.H. Liu, Y.M. Li, Y.Z. Zhang, Paving asphalt modifier from co-processing of FCC slurry with coal, *Catal. Today*, 98, 333–338, 2004.
5. L. Xu, J.L. Yang, Y.M. Li, Z.Y. Liu, Behavior of organic sulfur model compounds in pyrolysis under coal-like environment, *Fuel Process Technol.*, 85, 1013–1024, 2004.
6. L. Xu, J.L. Yang, Y.M. Li, Z.Y. Liu, Dynamic and simultaneous analyses of gaseous sulfur and hydrocarbon compounds released during pyrolysis of coal, *J. Anal. Appl. Pyrol.*, 71, 591–600, 2004.
7. R.X. Guo, J.L. Yang, Z.Y. Liu, Behavior of trace elements during pyrolysis of Chinese Datong coal in a simulated drop tube, *Fuel*, 83, 639–643, 2004.
8. R.X. Guo, J.L. Yang, Z.Y. Liu, Thermal and chemical stability of arsenic in three Chinese coals during pyrolysis, *Fuel Process. Technol.*, 85, 903–912, 2004.

9. R.X. Guo, J.L. Yang, Z.Y. Liu, Influence of heat treatment conditions on release of chlorine from Datong coal, *J. Anal. Appl. Pyrol.*, 71, 179–186, 2004.

10. R.X. Guo, J.L. Yang, D.Y. Liu, Z.Y. Liu, Fate of As, Pb, Cd, Cr and Mn in coal during pyrolysis, *J. Anal. Appl. Pyrol.*, 70, 555–562, 2003.

11. H. Cui, J.L. Yang, Z.Y. Liu, J.C. Bi, Characterization of the residue from thermal and catalytic coal hydroliquefaction, *Fuel*, 82, 1549–1556, 2003.

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