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Brief Summary

My research interest is focused on the organic facies of alkaline lacustrine source rocks deposited in the Late Paleozoic Ice Age (LPIA).

Education:

BSc at Jilin University, 2011-2015

Ph.D. at Nanjing University, 2015-present

Research interests:

Biomarkers, NSO compounds by FT-ICR MS, Molecular structure by FT-IR

Thesis title:

Organic-facies and its petroleum geological significance of alkaline lacustrine source rocks deposited in the Late Paleozoic Ice Age (LPIA)

Supervisors:

Kliti Grice

Publications:

Zhang, J.K., Cao, J., Wang, Y., Li, J., Hu, G., Zhou, N., Shi, T.M., 2019. Geochemistry and genesis of oil and gas seeps in the Junggar Basin, NW China: Implications for hybrid petroleum systems. *Geofluids*,

Zhang, J.K., Cao, J., Wang, Y., Hu, G., Zhou, N., Shi, T.M., 2019. Origin of giant vein-type bitumen deposits in the northwestern Junggar Basin, NW China: Implications for fault-controlled hydrocarbon accumulation. *Journal of Asian Earth Sciences* 179, 287-299.

Zhang, J.K., Cao, J., Xiang, B.L., Zhou, N., Ma, W.Y., Li, E.T., 2019. Fourier-Transform infrared proxies for oil source and maturity: Insights from the Early Permian alkaline lacustrine system, Junggar Basin (NW China). *Energy Fuels* 33, 10704-10717.

Zhang, J.K., Zhou, J.X., Wang, H.J., Mi, J.L., Kou, C.H., Wang, Y., Zhou, N., Cao, J., 2017. The discovery of light oil in overlap-erosion zones of the northwestern Junggar Basin and its significance. *Geological Bulletin of China* 36, 493-502.