



## Shaojie Li

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### Brief Summary

Recent studies show great potential of trace metals (e.g. REE) and radioactive-radiogenic isotope pairs (e.g.  $^{187}\text{Re}$ - $^{187}\text{Os}$ ) for hydrocarbon-source correlation and timing of petroleum system events. However, the elemental and isotopic behaviour of metals during the evolution of petroleum systems is poorly constrained, hindering their further application in both geochronology and source determination for hydrocarbons. Through integrating different analytical techniques for organic geochemistry (e.g. GC-MS, GC-irMS) and inorganic geochemistry (e.g. TIMS), the main goal for the PhD project is to understand the behaviour of metals and provide reliable source information and isotopic ages of migrated or in-situ stored hydrocarbons for oil companies.

**Education:** B. E. & M. E. at China University of Geosciences (Wuhan)

**Research interests:** Geochemistry, Geochronology, Petroleum geology.

**Thesis title:** Isotopic Dating of Oil Generation and Charge Events in McArthur (Australia) and Sichuan (China) Basin

**Supervisors:** A/Prof. Xuan-Ce Wang, Dr. Svetlana Tesselina, Prof. Chris Elders, Prof. Keyu Liu

**Publications:** Li, S., He, S., Zhu, W., Wang, X., Wu, J. and Chen, T., 2014, The study on sedimentation rate of source rock based on cyclostratigraphic analysis in the Zhuyi Depression, *Natural Gas Geoscience*, v.25, no.9, p.1328-1340.

Wang, X., He, S., Shi, W., Xu, X., Wu, Y., Wang, J., and Li, S., 2013, The synsedimentary faults derived from strike-slip movement control the deposition of Sheling Formation in Liangjia-Wanchang district, Yitong basin, *Oil Geophysical Prospecting*, v.48, no.1, p.134-143.

**Conferences:** 2016 19th Australian Organic Geochemistry Conference (Fremantle).

**Links:** <https://www.linkedin.com/in/shaojie-li-3b66b3a0/>