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RESEARCH INTEREST:

Study of composition and evolution of the enriched mantle end-member (EM), mainly focus on elemental and isotopic compositions of the ultrapotassic igneous rocks.

EDUCATION AND WORKING EXPERIENCE:

05/2017 till now Postdoc at Institute of Earth Sciences, Academia Sinica

09/2011--01/2017 Ph.D., Geochemistry, Institute of Geology and Geophysics, Chinese Academy of Sciences

09/2007--07/2011 B.S., Resource Exploration Engineering, Hefei University of Technology

PUBLICATIONS (First author and co-authored papers):

1. **Sun, Y.**, Ying, J.-F., Zhou, X.-H., Shao, J.-A., Chu, Z.-Y., Su, B.-X., **2014**. Geochemistry of ultrapotassic volcanic rocks in Xiaogulihe NE China: Implications for the role of ancient subducted sediments. **Lithos** 208-209, 53-66.
2. **Sun, Y.**, Ying, J.-F., Su, B.-X., Zhou, X.-H., Shao, J.-A., **2015**. Contribution of crustal materials to the mantle sources of Xiaogulihe ultrapotassic volcanic rocks, Northeast China: New constraints from mineral chemistry and oxygen isotopes of olivine. **Chemical Geology** 405, 10-18.
3. Hu, Y., Harrington, M.D., Sun, Y., Yang, Z., Konter, J., Teng, F.-Z., **2016**. Magnesium isotopic homogeneity of San Carlos olivine: a potential standard for Mg

isotopic analysis by multi-collector inductively coupled plasma mass spectrometry. *Rapid Communications in Mass Spectrometry* 30, 2123-2132.

4. Su, B.-X., Zhou, X.-H., **Sun, Y.**, Ying, J.-F., Sakyi, P. A., **2017**. Carbonatite-metasomatism signatures hidden in silicate-metasomatized mantle xenoliths from NE China. **Geological Journal**. DOI: 10.1002/gj.2920

5. **Sun, Y.**, Teng, F.Z., Ying, J.F., Su, B.X., Hu, Y., Fan, Q.C., Zhou, X.H., **2017**. Magnesium Isotopic Evidence for Ancient Subducted Oceanic Crust in LOMU-Like Potassium-Rich Volcanic Rocks. **Journal of Geophysical Research-Solid Earth**. 122(10), 7562-7572, DOI: 10.1002/2017JB014560