

75 Prof. Shaobing Zhang



Name: Shaobing Zhang

Organization: Applied Geophysics, University of Science and Technology of China, Hefei, China

E-mail:

Education

B.A. University of Science and Technology of China, Hefei, China, 2002

Ph.D. Geochemistry, University of Science and Technology of China, Hefei, China, 2008

Work Experience

Associate Professor, University of Science and Technology of China, Hefei, China, 2010-2012

Professor, University of Science and Technology of China, Hefei, China, 2012-present

Research Interests

Precambrian geology, early evolutionary history of the earth, continental crust hyperplasia model and the reconstructive mechanism, the cause of the granite and the evolution of the continental crust

Major Publications

Zhang, S. B., He, Q., Zheng, Y. F., 2015. Geochronological and geochemical evidence for the nature of the Dongling Complex in South China. *Precambrian Research*, 256(0): 17-30.

Zhang, S. B., Tang, J., Zheng, Y. F., 2014. Contrasting Lu–Hf isotopes in zircon from Precambrian metamorphic rocks in the Jiaodong Peninsula: Constraints on the tectonic suture between North China and South China. *Precambrian Research*, 245(0): 29-50.

Zhang, S. B., Zheng, Y. F., 2013. Formation and evolution of Precambrian continental lithosphere in South China. *Gondwana Research*, 23(4): 1241-1260.

Zhang, S. B., Wu, R. X., Zheng, Y. F., 2012. Neoproterozoic continental accretion in South China: Geochemical evidence from the Fuchuan ophiolite in the Jiangnan orogen. *Precambrian Research*, 220–221(0): 45-64.

Zhang, S. B., Zheng, Y. F., Zhao, Z. F., 2010. Temperature effect over garnet effect on uptake of trace elements in zircon of TTG-like rocks. *Chemical Geology*, 274(1-2): 108-125.

Zhang, S. B., Zheng, Y. F., Zhao, Z. F., Wu, Y. B., Yuan, H., Wu, F. Y., 2009. Origin of TTG-like rocks from anatexis of ancient lower crust: Geochemical evidence from Neoproterozoic granitoids in South China. *Lithos*, 113(3-4): 347-368.

Zhang, S. B., Zheng, Y. F., Zhao, Z. F., Wu, Y. B., Yuan, H., Wu, F. Y., 2008. Neoproterozoic anatexis of Archean lithosphere: Geochemical evidence from felsic to mafic intrusions at Xiaofeng in the Yangtze Gorge, South China. *Precambrian Research*, 163(3-4): 210-238.

Zheng, Y. F., Wu, R. X., Wu, Y. B., Zhang, S. B., Yuan, H., Wu, F. Y., 2008. Rift melting of juvenile arc-derived crust: Geochemical evidence from Neoproterozoic volcanic and granitic rocks in the Jiangnan Orogen, South China. *Precambrian Research*, 163(3-4): 351-383.

Zhang, S. B., Zheng, Y. F., Wu, Y. B., Zhao, Z. F., Gao, S., Wu, F. Y., 2006a. Zircon isotope

- evidence for ≥ 3.5 Ga continental crust in the Yangtze craton of China. *Precambrian Research*, 146(1-2): 16-34.
- Zhang, S. B., Zheng, Y. F., Wu, Y. B., Zhao, Z. F., Gao, S., Wu, F. Y., 2006b. Zircon U-Pb age and Hf-O isotope evidence for Paleoproterozoic metamorphic event in South China. *Precambrian Research*, 151(3-4): 265-288.
- Zhang, S. B., Zheng, Y. F., Wu, Y. B., Zhao, Z. F., Gao, S., Wu, F. Y., 2006c. Zircon U-Pb age and Hf isotope evidence for 3.8 Ga crustal remnant and episodic reworking of Archean crust in South China. *Earth and Planetary Science Letters*, 252(1-2): 56-71.
- Zheng, Y. F., Zhang, S. B., Zhao, Z. F., Wu, Y. B., Li, X., Li, Z., Wu, F. Y., 2007a. Contrasting zircon Hf and O isotopes in the two episodes of Neoproterozoic granitoids in South China: Implications for growth and reworking of continental crust. *Lithos*, 96(1-2): 127-150.
- Zheng, Y. F., Zhao, Z. F., Wu, Y. B., Zhang, S. B., Liu, X., Wu, F.-Y., 2006. Zircon U-Pb age, Hf and O isotope constraints on protolith origin of ultrahigh-pressure eclogite and gneiss in the Dabie orogen. *Chemical Geology*, 231(1-2): 135-158.
- Zheng, Y. F., Zhang, S. B., 2007. Formation and evolution of precambrian continental crust in South China. *Chinese Science Bulletin*, 52(1): 1-12.
- Zheng, Y. F., Chen, R.X., Zhang, S.B., Tang, J., Zhao, Z.F., Wu, Y.B., 2007b. Zircon Lu-Hf isotope study of ultrahigh-pressure eclogite and granitic gneiss in the Dabie orogen. *Acta Petrologica Sinica*, 23(2): 317-330.
- Zheng, Y.F., Wu, Y.B., Zhao, Z.F., Zhang, S.B., Xu, P., Wu, F.Y., 2005. Metamorphic effect on zircon Lu-Hf and U-Pb isotope systems in ultrahigh-pressure eclogite-facies metagranite and metabasite. *Earth and Planetary Science Letters*, 240(2): 378-400.
- Chen, Y. X., Zheng, Y. F., Chen, R. X., Zhang, S. B., Li, Q., Dai, M., Chen, L., 2011. Metamorphic growth and recrystallization of zircons in extremely ^{18}O -depleted rocks during eclogite-facies metamorphism: Evidence from U-Pb ages, trace elements, and O-Hf isotopes. *Geochimica et Cosmochimica Acta*, 75(17): 4877-4898.
- Wu, R. X., Zheng, Y. F., Wu, Y. B., Zhao, Z. F., Zhang, S. B., Liu, X., Wu, F. Y., 2006. Reworking of juvenile crust: Element and isotope evidence from Neoproterozoic granodiorite in South China. *Precambrian Research*, 146(3-4): 179-212.
- Wu, Y., Tang, J., Zhang, S., Zhao, Z., 2007a. SHRIMP zircon U-Pb dating for two episodes of migmatization in the Dabie orogen. *Chinese Science Bulletin*, 52(13): 1836-1842.
- Wu, Y. B., Zheng, Y. F., Zhang, S. B., Zhao, Z. F., Wu, F. Y., Liu, X. M., 2007b. Zircon U-Pb ages and Hf isotope compositions of migmatite from the North Dabie terrane in China: constraints on partial melting. *Journal of Metamorphic Geology*, 25(9): 991-1009.