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EDUCATION & WORK HISTORY

- Nov/2014-present: Professor, School of Earth Sciences and Engineering, Nanjing University
Dec/2012-Oct/2014: Assistant research scientist, Department of Geosciences, University of Wisconsin – Madison
Jun/2009-Nov/2012: Postdoctoral researcher, Department of Geosciences, University of Wisconsin – Madison
Jan/2006-May/2009: PhD, Department of Earth and Planetary Sciences, Macquarie University, Sydney. Thesis title: Stable Metal Isotope Geochemistry of the Northparkes Porphyry Cu-Au Deposits. PhD awarded in Sep/2009
Sep/2004-Jan/2006: MSc, Economic Geology major, Department of Earth Sciences, Nanjing University, China
Sep/2000-Jun/2004: BSc, Department of Earth Sciences, Nanjing University, China

RESEARCH INTEREST

- ✧ Method development for non-traditional stable isotopes
- ✧ Application of isotope spike technique in studies of reaction kinetics
- ✧ Experimental calibration of metal stable isotope fractionation factors for minerals
- ✧ Geochemistry of non-traditional stable isotopes in mineral deposits

PUBLICATION

- Shi B, Liu K, Wu L, **Li W**, Smeaton CM, Beard BL, Johnson CM, Roden EE, Van Cappellen P, (2016) Iron isotope fractionations reveal a finite bioavailable Fe pool for structural Fe(III) reduction in nontronite. *Environmental Science and Technology*, 50:8661-8669 (ETS Cover article)
- Li W**, Li S, Beard BL. (2016) Precise measurement of stable potassium isotope ratios using a single focusing collision cell multi-collector ICP-MS. *Journal of Analytical Atomic Spectrometry*, 31, 1023-1029
- Satkoski A, Beukes NJ, **Li W**, Beard BL, Johnson CM (2015) A redox-stratified ocean 3.2 billion years ago. *Earth and Planetary Science Letters*, 430, 43-53
- Li W**, Beard BL, Johnson CM. (2015) Biologically recycled continental iron is a major component in banded iron formations. *Proceedings of the National Academy of Sciences*, 112(27), 8193-8198
- Liu K, Wu L, Couture R, **Li W**, Van Cappellen, (2015) Iron isotope fractionation in sediments of an oligotrophic freshwater lake. *Earth and Planetary Science Letters*, 423, 164-172
- Li W**, Beard BL, Li C, Xu H, Johnson CM. (2015) Experimental calibration of Mg isotope fractionation between dolomite and aqueous solution and its geological implications. *Geochimica et Cosmochimica Acta*, 157, 164-181
- Neumann A, Wu L, **Li W**, Beard BL, Johnson CM, Rosso KM, Frierdich AJ, Scherer MM. (2015) Atom exchange between aqueous Fe(II) and structural Fe in clay minerals. *Environmental Science and*

Technology, 49(5): 2786-2795.

- Li W**, Beard BL, Li C, Johnson CM. (2014) Magnesium isotope fractionation between brucite [Mg(OH)₂] and Mg aqueous species: Implications for silicate weathering and biogeochemical processes. *Earth and Planetary Science Letters*, 394: 82-93.
- Li W**, Beard BL, Kita N, Valley, JW, Johnson CM. (2013) Contrasting behavior of oxygen and iron isotopes in banded iron formations revealed by in situ isotopic analysis. *Earth and Planetary Science Letters*, 384: 132-143.
- Li W**, Czaja AD, van Kranendonk M, Johnson CM, Beard BL. (2013) An anoxic, Fe(II)-rich, U-poor ocean 3.46 billion years ago. *Geochimica et Cosmochimica Acta* 120: 65-79
- Czaja AD, Johnson CM, Beard BL, Roden EE, **Li W**, Moorbath S. (2013) Biological Fe oxidation controlled deposition of banded iron formation in the ca. 3770 Ma Isua Supracrustal Belt (West Greenland). *Earth and Planetary Science Letters*, 363: 192-203.
- Li W**, Chakraborty S, Beard BL, Romanek CS, Johnson CM. (2012) Magnesium isotope fractionation during precipitation of inorganic calcite under laboratory conditions. *Earth and Planetary Science Letters*, 333-334: 304-316.
- Li W**, Johnson CM, Beard BL. (2012) U-Th-Pb isotope data indicate Phanerozoic age for oxidation of the 3.4 Ga Apex Basalt. *Earth and Planetary Science Letters* 319-320: 197-206.
- Li W**, Beard BL, Johnson CM. (2011) Exchange and fractionation of Mg isotopes between epsomite and saturated MgSO₄ solution. *Geochimica et Cosmochimica Acta* 75: 2014-2028.
- Li W**, Jackson SE, Pearson NJ. (2010) Copper isotopic zonation in the Northparkes porphyry Cu-Au deposit. *Geochimica et Cosmochimica Acta* 74: 4078-4096.
- Li W**, Jackson SE, Pearson NJ, Alard O, Chappell BW. (2009) Cu isotopic signature of granites from the Lachlan Fold Belt, SE Australia. *Chemical Geology* 258: 38-49.

Mao G, Hua R, Gao J, **Li W**, Zhao K, Long G, Lu HJ (2009) Existing forms of REE in gold-bearing pyrite of the Jinshan gold deposit, Jiangxi Province, China. *Journal of Rare Earths*, 27(6): 1079-1087.

Li W, Gu L, Tang J, Zheng Y, Wu C (2006) Behavior of Rare Earth Elements during Weathering of Sulphides at Wushan Copper Mine, Jiangxi Province, China. *Journal of the Chinese Rare Earth Society* 24: 350-356 (In Chinese with English abstract)

Wu C, Gu L, Zhang Z, Ren Z, Chen Z, **Li W** (2006) Formation mechanisms of hydrocarbon reservoirs associated with volcanic and subvolcanic intrusive rocks: Examples in Mesozoic-Cenozoic basins of eastern China. *AAPG Bulletin* 90: 137-147

Zhang Z, Gu L, Wu C, **Li W**, Xi A, Shuo W (2005) Zircon SHRIMP dating for the Weiya pluton, Eastern Tianshan: Its geological implications. *Acta Geologica Sinica - English Edition* 79(4): 481-490

PROFESSIONAL SERVICE

Reviewer of manuscript for *Nature Geoscience*, *Geochimica et Cosmochimica Acta* (*n*>10), *Geology*, *Earth and Planetary Science Letters*, *Chemical Geology* (*n*>10), *GSA Bulletin*, *Contributions to Mineralogy and Petrology*, *Geochemistry Geophysics Geosystems*, *Environmental Chemistry*, *Journal of Analytical Atomic Spectrometry*, *Mineralium Deposita*, *Ore Geology Reviews*, *Rapid Communications in Mass Spectrometry*, *Terra Nova*, *Geochemical Journal*, and *Applied Geochemistry*.

Reviewer of research proposal of National Science Foundation of United States, National Geographic Society.

Judge of student poster for AbSciCon 2012, AGU 2012, AGU 2013. Judge of student talk for Goldschmidt Conference 2012.

OTHER INFORMATION

ResearcherID: <http://www.researcherid.com/rid/D-2975-2011>

Member of the Geochemical Society, American Geophysical Union