

# Kun Wang

*Assistant Professor of Geochemistry*

Department of Earth and Planetary Sciences  
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## RESEARCH INTERESTS

- Origin of the Earth and of the Solar System
- Planetary differentiation: core-mantle segregation and crust formation
- Transition metal isotope geochemistry
- Analytical development and application of high precision isotopic measurements using Multi Collector Inductively Coupled Plasma Mass Spectrometry (MC-ICP-MS)

## PROFESSIONAL PREPARATION

- **Harvard University**, Cambridge MA, USA, Geochemistry, 2014 – 2016
- **Washington University in St. Louis**, MO, USA, Geochemistry, Ph.D., 2013
- **China University of Geosciences**, Geology, B.Sc. (Honors), 2008

## APPOINTMENTS

- 2016 – present **Assistant Professor**, Department of Earth & Planetary Sciences, Washington University in St. Louis
- 2014 – 2016 **Origins Prize Postdoctoral Fellow**, Department of Earth & Planetary Sciences, Harvard University
- 2009 – 2013 **Graduate Research Assistant**, Department of Earth & Planetary Sciences, Washington University in St. Louis
- 2008 – 2009 **Research Assistant**, Purple Mountain Astronomical Observatory, Chinese Academy of Sciences

## HONORS AND AWARDS

- **The Harvard Origins of Life Initiative Prize Postdoctoral Fellowship**, 2014-2016
- **NASA Earth and Space Science Fellowship**, 2012-2013
- **LPI Career Development Award**: Lunar and Planetary Institute, Houston, 2012
- **Carl Tolman Prize for Outstanding Graduate Teaching Assistant**: Washington University in St. Louis, 2011
- **Graduating with Honors** (top 1%), and **Academic Record Outstanding Student**: China University of Geosciences, 2008
- **National People's Scholarship**: Ministry of Education, China, 2007
- **Zhongkai Mining Company Fellowship**: Zhongkai Mining Co. Ltd., Tibet, 2006

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## PUBLICATIONS

- **Wang, K.**, and Jacobsen, S. B. (2016) Potassium isotopic evidence for a high-energy Giant Impact origin of the Moon. *Nature*, **538**, 487-490.
- **Wang, K.**, and Jacobsen, S. B. (2016) An estimate of the Bulk Silicate Earth potassium isotopic composition based on MC-ICPMS measurements of basalts. *Geochimica et Cosmochimica Acta*, **178**, 223-232.
- **Wang, K.**, Jacobsen, S. B., Sedaghatpour, F., Chen, H., Korotev, R.L. (2015) The earliest Lunar Magma Ocean differentiation recorded in Fe isotopes. *Earth and Planetary Sciences Letters*, **430**, 202-208.
- Barrat, J. A., Rouxel, O., **Wang, K.**, Moynier, F., Yamaguchi, A., Bischoff, A. and Langlade, J. (2015) Early stages of core segregation recorded by Fe isotopes in an asteroidal mantle. *Earth and Planetary Sciences Letters*, **419**, 93-100.
- **Wang, K.**, Savage, P.S., Moynier, F. (2014) The iron isotope composition of enstatite meteorites: Implications for their origin and the metal/sulfide Fe isotopic fractionation factor. *Geochimica et Cosmochimica Acta*, **142**, 149-165.
- **Wang, K.**, Day, J.M.D., Korotev, R.L., Zeigler, R.A., Moynier, F. (2014) Iron isotope fractionation during sulfide-rich felsic partial melting in early planetesimals. *Earth and Planetary Sciences Letters*, **392**, 124-132.
- Moynier, F., Fujii, T., **Wang, K.**, Foriel, J. (2013) Ab initio calculations of the Fe(II) and Fe(III) isotopic effects in citrates, nicotianamine, and phyto siderophore, and new Fe isotopic measurements in higher plants. *Comptes Rendus Geosciences*, **345**, 230-240.
- **Wang, K.**, Moynier, F., Barrat, J-A., Zanda, B., Paniello, R.C., Savage, P.S. (2013) Homogeneous distribution of Fe isotopes in the early solar nebula. *Meteoritics & Planetary Sciences*, **48**, 354-364.
- **Wang, K.**, Moynier, F., Podosek, F., Foriel, J. (2012) An iron isotope perspective on the origin of the nanophase metallic iron in lunar regolith. *Earth and Planetary Sciences Letters*, **337-338**, 17-24.
- Bishop, MC, Moynier F., Weinstein, C., Fraboulet, J.G., **Wang, K.**, Foriel, J. (2012) The Cu isotopic composition of iron meteorites, *Meteoritics & Planetary Sciences*, **47**, 268-276.
- **Wang, K.**, Moynier, F., Dauphas, N., Barrat, J.A., Craddock, P., Sio, C. (2012) Iron isotope fractionation in planetary crusts. *Geochimica et Cosmochimica Acta*, **89**, 31-45.
- Moynier, F., Blichert-Toft, J., **Wang, K.**, Herzog, G., Albarede, F. (2011) Elusive  $^{60}\text{Fe}$  in the early solar system. *The Astrophysical Journal*, **741**, 71.
- Weinstein, C., Moynier, F., **Wang, K.**, Paniello, R., Foriel, J., Catalano, J., Pichat, S. (2011) Isotopic fractionation of Cu in plants. *Chemical Geology*, **286**, 266-271.
- **Wang, K.**, Moynier, F., Podosek, F., Foriel, J. (2011)  $^{58}\text{Fe}$  and  $^{54}\text{Cr}$  in early solar system materials. *The Astrophysical Journal Letters*, **739**, L58.