



Karrie Weaver

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Bio

CURRENT ROLE AT STANFORD

Lab Manager, SIGMA Shared Lab Facility

LINKS

- SIGMA Facility webpage: <http://plasmalab.stanford.edu>

Publications

PUBLICATIONS

- **Complexation by Organic Matter Controls Uranium Mobility in Anoxic Sediments.** *Environmental science & technology*
Bone, S. E., Cliff, J. n., Weaver, K. n., Takacs, C. J., Roycroft, S. n., Fendorf, S. n., Bargar, J. R.
2020
- **Sources of Blood Lead Exposure in Rural Bangladesh** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Forsyth, J. E., Weaver, K. L., Maher, K., Islam, M., Raqib, R., Rahman, M., Fendorf, S., Luby, S. P.
2019; 53 (19): 11429–36
- **Isotopic Fingerprint of Uranium Accumulation and Redox Cycling in Floodplains of the Upper Colorado River Basin.** *Environmental science & technology*
Lefebvre, P., Noel, V., Lau, K. V., Jemison, N. E., Weaver, K. L., Williams, K. H., Bargar, J. R., Maher, K.
2019
- **Thermodynamic controls on redox-driven kinetic stable isotope fractionation** *Geochemical Perspectives Letters*
Joe-Wong, C., Weaver, K. L., Brown, S. T., Maher, K.
2019: 20-25
- **Uranium isotope evidence for an expansion of marine anoxia during the end-Triassic extinction** *Geochemistry, Geophysics, Geosystems*
Jost, A. B., Bachan, A., Van De Schootbrugge, B., Lau, K. V., Weaver, K. L., Maher Kate, Payne, J. L.
2017; 18
- **Isotopic Evidence for Reductive Immobilization of Uranium Across a Roll-Front Mineral Deposit** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Brown, S. T., Basu, A., Christensen, J. N., Reimus, P., Heikoop, J., Simmons, A., WoldeGabriel, G., Maher, K., Weaver, K., Clay, J., DePaolo, D. J.
2016; 50 (12): 6189-6198
- **Marine anoxia and delayed Earth system recovery after the end-Permian extinction.** *Proceedings of the National Academy of Sciences of the United States of America*
Lau, K. V., Maher, K., Altiner, D., Kelley, B. M., Kump, L. R., Lehrmann, D. J., Silva-Tamayo, J. C., Weaver, K. L., Yu, M., Payne, J. L.
2016; 113 (9): 2360-2365
- **A spatially resolved surface kinetic model for forsterite dissolution** *GEOCHIMICA ET COSMOCHIMICA ACTA*
Maher, K., Johnson, N. C., Jackson, A., Lammers, L. N., Torchinsky, A. B., Weaver, K. L., Bird, D. K., Brown, G. E.

2016; 174: 313-334

- **Rise and fall of late Pleistocene pluvial lakes in response to reduced evaporation and precipitation: Evidence from Lake Surprise, California** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*

Ibarra, D. E., Egger, A. E., Weaver, K. L., Harris, C. R., Maher, K.

2014; 126 (11-12): 1387-1415

PRESENTATIONS

- Sr-Nd isotope and trace element geochemistry of Precambrian zircon: a potential new source of information on early Earth mantle evolution - Goldschmidt Geochemistry Conference, 2004
- The importance of being plumes: Entrainment, isotopes, melting, and vertical structure of the Earth's mantle - American Geophysical Meeting, Fall 2004
- Disturbed Sr and Nd isotope systematics in zircons with concordant SHRIMP U-Pb ages - American Geophysical Meeting, Fall 2004
- Sr-isotopic evolution of the mantle - Goldschmidt Geochemistry Conference, 2005
- Geochemical Stratigraphy Near the Core-mantle Boundary: Evidence from Hawaii Drilling Project Results - Goldschmidt Geochemistry Conference, 2006