



Elizabeth Paulus

Postdoctoral Scholar, Photon Science, SLAC

Publications

PUBLICATIONS

- **Precipitation-Driven Shifts in Organic Sulfur Decomposition and Oxidation State along Rainfall Gradients.** *Environmental science & technology*
Zhu, M., Dam, T. T., Chadwick, O., Paulus, E. L., Liu, H., Jin, Q., Shakouri, M.
2026
- **A general framework for nitrogen deposition effects on soil respiration in global forests.** *Nature communications*
Cen, X., Vitousek, P., He, N., Bond-Lamberty, B., Niu, S., Du, E., Yu, K., Zheng, M., Van Sundert, K., Paulus, E. L., He, L., Xu, L., Li, et al
2025
- **Does manganese influence grass litter decomposition on a Hawaiian rainfall gradient?** *Oecologia*
Paulus, E. L., Vitousek, P. M.
2024; 207 (1): 10
- **Manganese and soil organic carbon stability on a Hawaiian grassland rainfall gradient** *SOIL BIOLOGY & BIOCHEMISTRY*
Paulus, E. L., Vitousek, P. M.
2024; 194
- **Manganese Oxidation States in Volcanic Soils across Annual Rainfall Gradients.** *Environmental science & technology*
Wen, K., Chadwick, O. A., Vitousek, P. M., Paulus, E. L., Landrot, G., Tappero, R. V., Kaszuba, J. P., Luther, G. W., Wang, Z., Reinhart, B. J., Zhu, M.
2022
- **Foliar #15N patterns in legumes and non-N fixers across a climate gradient, Hawai'i Island, USA.** *Oecologia*
Burnett, M. W., Bobbett, A. E., Brendel, C. E., Marshall, K., von Sperber, C., Paulus, E. L., Vitousek, P. M.
1800
- **Nitrogen dynamics along a climate gradient on geologically old substrate, Kaua'i, Hawai'i.** *Oecologia*
Vitousek, P. M., Paulus, E. L., Chadwick, O. A.
2018
- **SLC39A14 deficiency alters manganese homeostasis and excretion resulting in brain manganese accumulation and motor deficits in mice** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Jenkitkasemwong, S., Akinyode, A., Paulus, E., Weiskirchen, R., Hojyo, S., Fukada, T., Giraldo, G., Schrier, J., Garcia, A., Janus, C., Giasson, B., Knutson, M. D.
2018; 115 (8): E1769–E1778