



Mengze Li

Postdoctoral Scholar, Earth System Science

Bio

PROFESSIONAL EDUCATION

- Doctor of Science, Johannes Gutenberg Universitat Mainz (2020)
- PhD, Max Planck Institute for Chemistry, Germany , Atmospheric chemistry (2020)

STANFORD ADVISORS

- Rob Jackson, Postdoctoral Faculty Sponsor

COMMUNITY AND INTERNATIONAL WORK

- Editorial Board Member, Communications Earth & Environment
- Blog Editor, European Geoscience Union
- Early Career Scientist Representative (2020-2022), European Geoscience Union

LINKS

- My Google Scholar: <https://scholar.google.com/citations?user=6uJuFqEAAAAJ&hl=en>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

atmospheric gases: trends and emissions, such as methane, volatile organic compounds.

atmospheric observations: ground, airborne, satellite remote sensing.

atmospheric measurement techniques.

atmospheric modeling.

indoor air chemistry and human emissions.

climate change.

Publications

PUBLICATIONS

- **Carbonyl Sulfide (OCS) in the Upper Troposphere/Lowermost Stratosphere (UT/LMS) Region: Estimates of Lifetimes and Fluxes** *GEOPHYSICAL RESEARCH LETTERS*
Karu, E., Li, M., Ernle, L., Brenninkmeijer, C. M., Lelieveld, J., Williams, J.
2023; 50 (19)

- **Northern hemispheric atmospheric ethane trends in the upper troposphere and lower stratosphere (2006-2016) with reference to methane and propane** *EARTH SYSTEM SCIENCE DATA*
Li, M., Pozzer, A., Lelieveld, J., Williams, J.
2022; 14 (9): 4351-4364
- **The human oxidation field.** *Science (New York, N.Y.)*
Zannoni, N., Lakey, P. S., Won, Y., Shiraiwa, M., Rim, D., Weschler, C. J., Wang, N., Ernle, L., Li, M., Bekö, G., Wargocki, P., Williams, J.
2022; 377 (6610): 1071-1077
- **Human metabolic emissions of carbon dioxide and methane and their implications for carbon emissions** *SCIENCE OF THE TOTAL ENVIRONMENT*
Li, M., Bekoe, G., Zannoni, N., Pugliese, G., Carrito, M., Cera, N., Moura, C., Wargocki, P., Vasconcelos, P., Nobre, P., Wang, N., Ernle, L., Williams, et al
2022; 833: 155241
- **Ozone Initiates Human-Derived Emission of Nanocluster Aerosols.** *Environmental science & technology*
Yang, S., Licina, D., Weschler, C. J., Wang, N., Zannoni, N., Li, M., Vanhanen, J., Langer, S., Wargocki, P., Williams, J., Bekö, G.
2021; 55 (21): 14536-14545
- **Effect of Ozone, Clothing, Temperature, and Humidity on the Total OH Reactivity Emitted from Humans.** *Environmental science & technology*
Zannoni, N., Li, M., Wang, N., Ernle, L., Bekö, G., Wargocki, P., Langer, S., Weschler, C. J., Morrison, G., Williams, J.
2021; 55 (20): 13614-13624
- **Total OH Reactivity of Emissions from Humans: In Situ Measurement and Budget Analysis.** *Environmental science & technology*
Wang, N., Zannoni, N., Ernle, L., Bekö, G., Wargocki, P., Li, M., Weschler, C. J., Williams, J.
2021; 55 (1): 149-159
- **The Indoor Chemical Human Emissions and Reactivity (ICHEAR) project: Overview of experimental methodology and preliminary results.** *Indoor air*
Bekö, G., Wargocki, P., Wang, N., Li, M., Weschler, C. J., Morrison, G., Langer, S., Ernle, L., Licina, D., Yang, S., Zannoni, N., Williams, J.
2020; 30 (6): 1213-1228
- **Human Ammonia Emission Rates under Various Indoor Environmental Conditions.** *Environmental science & technology*
Li, M., Weschler, C. J., Bekö, G., Wargocki, P., Lucic, G., Williams, J.
2020; 54 (9): 5419-5428
- **Characteristics of atmospheric volatile organic compounds (VOCs) at a mountainous forest site and two urban sites in the southeast of China.** *The Science of the total environment*
Hong, Z., Li, M., Wang, H., Xu, L., Hong, Y., Chen, J., Chen, J., Zhang, H., Zhang, Y., Wu, X., Hu, B., Li, M.
2019; 657: 1491-1500