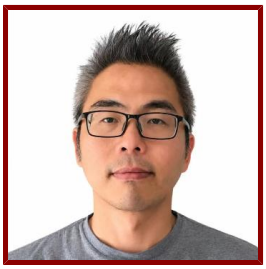
Stanford



Ming-Fu Lin (###)

Lead Scientist, LCLS - Linac Coherent Light Source

Bio

CURRENT ROLE AT STANFORD

I am interested in ultrafast sciences (using X-ray, electron diffraction and transient absorption spectroscopy to study ultrafast dynamics of molecules in gas, liquid and materials).

EDUCATION AND CERTIFICATIONS

- PhD, University of California at Berkeley , Physical Chemistry
- MS, National Taiwan University , Chemistry
- BS, National Taiwan Normal University , Chemistry

PROJECTS

- New sample delivery for DREAM endstation - LCLS, SLAC National Accelerator Laboratory (January 1, 2023 - present)
- Fresnel Zone plate development for single shot X-ray spectrum - LCLS, SLAC National Accelerator Laboratory (8/1/2019 - present)
- Slit-jet sample delivery for UED - LCLS, SLAC National Accelerator Laboratory (August 1, 2022 - present)
- Pyrolysis source for TMO - LCLS, SLAC National Accelerator Laboratory (February 1, 2023 - present)

LINKS

- linkedin: https://www.linkedin.com/in/mingfulinslac/

Professional

WORK EXPERIENCE

- Staff Scientist - LCLS, SLAC National Accelerator Laboratory (10/1/2021 - 2/1/2025)
- Associate Staff Scientist - LCLS, SLAC National Accelerator Laboratory (7/16/2018 - 9/30/2021)
- Experimental Research Assoicate - SLAC National Accelerator Laboratory (3/15/2016 - 7/15/2018)
- Postdoc Researcher - University of Illinois at Urbana Champaign (9/20/2013 - 3/1/2016)
- Research Assistant - Institute of Atomic and Molecular Science, Academia Sinica (10/1/2003 - 12/20/2007)

Publications

PUBLICATIONS

- **Non-linear enhancement of ultrafast X-ray diffraction through transient resonances.** *Nature communications*
  Kuschel, S., Ho, P. J., Al Haddad, A., Zimmermann, F. F., Flueckiger, L., Ware, M. R., Duris, J., MacArthur, J. P., Lutman, A., Lin, M. F., Li, X., Nakahara, K., Aldrich, et al

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- **Element-specific ultrafast lattice dynamics in FePt nanoparticles.** *Structural dynamics (Melville, N.Y.)*
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- **Tracking dissociation pathways of nitrobenzene via mega-electron-volt ultrafast electron diffraction** *JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS*
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- **UV-Induced Reaction Pathways in Bromoform Probed with Ultrafast Electron Diffraction.** *Journal of the American Chemical Society*
  Hoffmann, L., Toulson, B. W., Yang, J., Saladrigas, C. A., Zong, A., Muvva, S. B., Figueira Nunes, J. P., Reid, A. H., Attar, A. R., Luo, D., Ji, F., Lin, M. F., Fan, et al
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