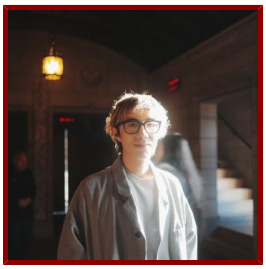
Stanford



Han Cui

Ph.D. Student in Materials Science and Engineering, admitted Autumn 2021

Bio

HONORS AND AWARDS

- 2021 Centennial Teaching Assistant Award, Stanford University (06/2021)
- Cum Laude, University of California, San Diego (06/2019)
- The Japanese National Honor Society, College Chapter, American Association of Teachers of Japanese (05/2019)
- Osaka University Scholarship for Super Short Term Study, Osaka University (06/2018)
- Japan Student Services Organization Scholarship for Study in Japan, Japan Student Services Organization (06/2017)

EDUCATION AND CERTIFICATIONS

- Bachelor of Science, University of California, San Diego , Mechanical Engineering (2019)

LINKS

- Linkedin: www.linkedin.com/in/han-cui

Research & Scholarship

LAB AFFILIATIONS

- Guosong Hong, Hong Neurotechnology Lab at Stanford University (10/25/2019)

Publications

PUBLICATIONS

- **Achieving transient and reversible optical transparency in live mice with tartrazine.** *Nature protocols*
  Keck, C. H., Schmidt, E. L., Zhao, S., Liu, Z., Zhang, L., Cui, M., Chen, X., Wang, C., Cui, H., Brongersma, M. L., Hong, G.
  2025

- **Color-neutral and reversible tissue transparency enables longitudinal deep-tissue imaging in live mice.** *bioRxiv : the preprint server for biology*
  Keck, C. H., Schmidt, E. L., Roth, R. H., Floyd, B. M., Tsai, A. P., Garcia, H. B., Cui, M., Chen, X., Wang, C., Park, A., Zhao, S., Liao, P. A., Casey, et al
  2025

- **Achieving optical transparency in live animals with absorbing molecules.** *Science (New York, N.Y.)*
  Ou, Z., Duh, Y. S., Rommelfanger, N. J., Keck, C. H., Jiang, S., Brinson, K., Zhao, S., Schmidt, E. L., Wu, X., Yang, F., Cai, B., Cui, H., Qi, et al
  2024; 385 (6713): eadm6869

- **Near-infrared II fluorescence imaging** *NATURE REVIEWS METHODS PRIMERS*
  Schmidt, E., Ou, Z., Ximendes, E., Cui, H., Keck, C. H. C., Jaque, D., Hong, G.

2024; 4 (1)

- **Wireless deep-brain neuromodulation using photovoltaics in the second near-infrared spectrum.** *Device*
  Cui, H., Zhao, S., Hong, G.
  2023; 1 (4)
- **Principles and applications of sono-optogenetics.** *Advanced drug delivery reviews*
  Yang, F., Kim, S. J., Wu, X., Cui, H., Kwang Hahn, S., Hong, G.
  2023: 114711
- **Ultrasound-activated luminescence with color tunability enabled by mechanoluminescent colloids and perovskite quantum dots.** *Nanoscale*
  Yang, F., Cui, H., Wu, X., Kim, S., Hong, G.
  2023
- **Palette of Rechargeable Mechanoluminescent Fluids Produced by a Biomineral-Inspired Suppressed Dissolution Approach.** *Journal of the American Chemical Society*
  Yang, F., Wu, X., Cui, H., Jiang, S., Ou, Z., Cai, S., Hong, G.
  2022
- **A biomineral-inspired approach of synthesizing colloidal persistent phosphors as a multicolor, intravital light source.** *Science advances*
  Yang, F., Wu, X., Cui, H., Ou, Z., Jiang, S., Cai, S., Zhou, Q., Wong, B. G., Huang, H., Hong, G.
  2022; 8 (30): eabo6743
- **Development of Rotational Incremental Hammering Process for Porous Metals** *11th International Conference on Porous Metals and Metallic Foams (MetFoam 2019)*
  Cui, H., Matsumoto, R., Utsunomiya, H.
  2020: 27

PRESENTATIONS

- Rotational Incremental Hammering Process of Porous Metals for Rapid Prototyping - 2018 Gulf Coast Undergraduate Research Symposium (October 2018)