

Stanford

Weilai Yu

Postdoctoral Scholar, Chemical Engineering

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, California Institute of Technology (2021)
- Bachelor of Science, Wuhan University . Chemistry (2016)

STANFORD ADVISORS

- Zhenan Bao, Postdoctoral Research Mentor
- Zhenan Bao, Postdoctoral Faculty Sponsor

LINKS

- <https://www.leonardoyu.org/>: <https://www.leonardoyu.org/>

Publications

PUBLICATIONS

- **Failure Modes of Platinized pn+-GaInP Photocathodes for Solar-Driven H₂ Evolution.** *ACS applied materials & interfaces*
Yu, W., Buabthong, P., Young, J. L., Ifkovits, Z. P., Byrne, S. T., Steiner, M. A., Deutsch, T. G., Lewis, N. S.
2022
- **Tuning Fluorination of Linear Carbonate for Lithium-Ion Batteries** *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*
Yu, Z., Yu, W., Chen, Y., Mondonico, L., Xiao, X., Zheng, Y., Liu, F., Hung, S. T., Cui, Y., Bao, Z.
2022; 169 (4)
- **Catalytic open-circuit passivation by thin metal oxide films of p-Si anodes in aqueous alkaline electrolytes** *ENERGY & ENVIRONMENTAL SCIENCE*
Fu, H. J., Buabthong, P., Ifkovits, Z., Yu, W., Brunshwig, B. S., Lewis, N. S.
2021
- **Understanding the Stability of Etched or Platinized p-GaInP Photocathodes for Solar-Driven H₂ Evolution.** *ACS applied materials & interfaces*
Yu, W., Young, J. L., Deutsch, T. G., Lewis, N. S.
2021
- **Investigations of the stability of etched or platinized p-InP(100) photocathodes for solar-driven hydrogen evolution in acidic or alkaline aqueous electrolytes** *ENERGY & ENVIRONMENTAL SCIENCE*
Yu, W., Richter, M. H., Buabthong, P., Moreno-Hernandez, I. A., Read, C. G., Simonoff, E., Brunshwig, B. S., Lewis, N. S.
2021
- **Mixed Metal Oxide Electrodes and the Chlorine Evolution Reaction** *JOURNAL OF PHYSICAL CHEMISTRY C*
Dong, H., Yu, W., Hoffmann, M. R.
2021; 125 (38): 20745-20761
- **Investigations of the stability of GaAs for photoelectrochemical H₂ evolution in acidic or alkaline aqueous electrolytes** *JOURNAL OF MATERIALS CHEMISTRY A*
Yu, W., Richter, M. H., Simonoff, E., Brunshwig, B. S., Lewis, N. S.
2021; 9 (40): 22958-22972

- **Origin of the Electrical Barrier in Electrolessly Deposited Platinum Nanoparticles on p-Si Surfaces** *JOURNAL OF PHYSICAL CHEMISTRY C*
Nunez, P., Caban-Acevedo, M., Yu, W., Richter, M. H., Kennedy, K., Villarino, A., Brunshwig, B. S., Lewis, N. S.
2021; 125 (32): 17660-17670
- **Cathodic NH₄⁽⁺⁾ leaching of nitrogen impurities in CoMo thin-film electrodes in aqueous acidic solutions** *SUSTAINABLE ENERGY & FUELS*
Yu, W., Buabthong, P., Read, C. G., Dalleska, N. F., Lewis, N. S., Lewerenz, H., Gray, H. B., Brinkert, K.
2020; 4 (10): 5080-5087