

Stanford

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Publications

PUBLICATIONS

- **Mass Transport Modifies the Interfacial Electrolyte to Influence Electrochemical Nitrate Reduction** *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*
Guo, J., Brimley, P., Liu, M. J., Corson, E., Munoz, C., Smith, W., Tarpeh, W. A.
2023
- **Co-designing Electrocatalytic Systems with Separations To Improve the Sustainability of Reactive Nitrogen Management** *ACS CATALYSIS*
Niemann, V. A., Benedek, P., Guo, J., Xu, Y., Blair, S. J., Corson, E. R., Nielander, A. C., Jaramillo, T. F., Tarpeh, W. A.
2023; 13 (9): 6268-6279
- **Electrified Ion Exchange Enabled by Water Dissociation in Bipolar Membranes for Nitrogen Recovery from Source-Separated Urine.** *Environmental science & technology*
Dong, H., Laguna, C. M., Liu, M. J., Guo, J., Tarpeh, W. A.
2022
- **Probing dissolved CO₂(aq) in aqueous solutions for CO₂ electroreduction and storage.** *Science advances*
Li, J., Guo, J., Dai, H.
2022; 8 (19): eab00399
- **Catalytic Performance and Near-Surface X-ray Characterization of Titanium Hydride Electrodes for the Electrochemical Nitrate Reduction Reaction.** *Journal of the American Chemical Society*
Liu, M. J., Guo, J., Hoffman, A. S., Stenlid, J. H., Tang, M. T., Corson, E. R., Stone, K. H., Abild-Pedersen, F., Bare, S. R., Tarpeh, W. A.
2022
- **Efficient CO₂ electroreduction on facet-selective copper films with high conversion rate.** *Nature communications*
Zhang, G., Zhao, Z., Cheng, D., Li, H., Yu, J., Wang, Q., Gao, H., Guo, J., Wang, H., Ozin, G. A., Wang, T., Gong, J.
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- **Selective aqueous ammonia sensors using electrochemical stripping and capacitive detection** *AIChE Journal*
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2021
- **Electroreduction of CO₂ to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency.** *Journal of the American Chemical Society*
Li, J. n., Kuang, Y. n., Meng, Y. n., Tian, X. n., Hung, W. H., Zhang, X. n., Li, A. n., Xu, M. n., Zhou, W. n., Ku, C. S., Chiang, C. Y., Zhu, G. n., Guo, et al
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