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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Novel Earth-Abundant Cu and Fe-Based Chalcogenide Cocatalysts for Photocatalytic Hydrogen Evolution** *SOLAR RRL*
Zander, J., Marschall, R.
2025
- **Correlations of Calcination Temperature with the Catalytic Properties of CuFe_2O_4 for the Synthesis of Green Fuels** *ADVANCED ENERGY AND SUSTAINABILITY RESEARCH*
Zander, J., Daumann, F., Loukrakpam, R., Roth, C., Weber, B., Marschall, R.
2025; 6 (2)
- **Selective optimisation of catalytic activity by tuning the structural composition in nanoparticulate CuFe_2O_4**
sub> SUSTAINABLE ENERGY & FUELS
Zander, J., Fink, M. F., Attia, M., Roth, C., Marschall, R.
2024
- **FeNi_2S_4 -A Potent Bifunctional Efficient Electrocatalyst for the Overall Electrochemical Water Splitting in Alkaline Electrolyte** *SMALL*
Hegazy, M., Zander, J., Weiss, M., Simon, C., Gerschel, P., Sanden, S. A., Smialkowski, M., Tetzlaff, D., Kull, T., Marschall, R., Apfel, U.
2024; 20 (31): e2311627
- **Medium- and High-Entropy Spinel Ferrite Nanoparticles via Low-Temperature Synthesis for the Oxygen Evolution Reaction** *ADVANCED FUNCTIONAL MATERIALS*
Zander, J., Woelfel, J., Weiss, M., Jiang, Y., Cheng, N., Zhang, S., Marschall, R.
2024; 34 (4)
- **Ni_2FeS_4 as a highly efficient earth-abundant co-catalyst in photocatalytic hydrogen evolution** *JOURNAL OF MATERIALS CHEMISTRY A*
Zander, J., Marschall, R.
2023; 11 (32): 17066-17078
- **Fast and Facile Microwave Synthesis of Cubic CuFe_2O_4 Nanoparticles for Electrochemical CO_2 Reduction** *ADVANCED ENERGY AND SUSTAINABILITY RESEARCH*
Zander, J., Weiss, M., Marschall, R.
2023; 4 (4)
- **Light-Induced Ammonia Generation over Defective Carbon Nitride Modified with Pyrite** *ADVANCED ENERGY MATERIALS*
Zander, J., Timm, J., Weiss, M., Marschall, R.

2022; 12 (43)

- **Photocatalytic Nitrogen Reduction: Challenging Materials with Reaction Engineering** *CHEMPHOTOCHEM*

Ziegenbalg, D., Zander, J., Marschall, R.

2021; 5 (9): 792-807