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Prof. Yuanyuan (Alvin) Zhou

HKUST, Hong Kong SAR, China

Prof. Yuanyuan (Alvin) Zhou joined The Hong Kong University of Science and Technology (HKUST) as Associate Professor of Chemical & Biological Engineering via the university's prestigious "30 for 30" talent acquisition campaign. He obtained his B.S. degree from Xi'an Jiaotong University and his Ph.D. degree from Brown University. Prior to the HKUST appointment, he was a "Talent100" Assistant Professor of Physics at Hong Kong Baptist University (HKBU) in 2020-2023. He has authored/co-authored more than 120 papers in reputable journals including Science and Nature Energy. His Google Scholar shows >12,000 citations and 57 h-index. He has received prestigious honors and awards, including China's NSFC Excellent Young Scientists Fund (Hong Kong & Macau). He is currently an Associate Editor of the Journal of Energy Chemistry (Elsevier; IF=13.1) and an Advisory Board Member of Device (Cell Press). Prof. Zhou leads the Σ Lab at HKUST that leverages fundamental innovations to transform the semiconductor science and technologies.