Prof. Pengfei Ou

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Pengfei Ou is an Assistant Professor in the Department of Chemistry at the National University of Singapore (NUS). He is also a member of the NUS Institute for Artificial Intelligence and the Centre for Hydrogen Innovations, and has been awarded the Presidential Young Professorship. He previously worked as a researcher at Northwestern University in the United States and conducted postdoctoral research at the University of Toronto in Canada. His research focuses on computational catalysis and artificial intelligence, aiming to accelerate catalyst discovery and mechanistic understanding. Since establishing his independent research group in 2024, he has published multiple high-impact papers as the corresponding author in journals such as Nature Catalysis, Nature Synthesis, and Nature Communications, etc. He also has extensive experience in industry collaboration, having worked closely on research projects with globally renowned companies and government agencies, including TotalEnergies, Fujitsu, BP, and DSO Singapore. To date, he has published 110 peer-reviewed papers, with over 7,600 total citations and an h-index of 43. His honors include the NUS Presidential Young Professorship (2024), the Climate Positive Energy “Rising Stars in Sustainable Energy” Postdoctoral Fellowship (2022), and the Chinese Government Award for Outstanding Self-Financed Students Abroad (2021).