

Hiang Kwee Lee



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Education:

2018 PhD (Chemistry), Nanyang Technological University

2013 BSc (Chemistry), Nanyang Technological University

Experience:

Apr 2021 – now Nanyang Assistant Professor, CCEB, NTU

Nov 2020 – Apr 2021 Assistant Professor, SPMS, NTU

Nov 2018 – Oct 2020 Visiting Post-Doctoral Researcher, Stanford University

Selective Honors & Awards:

2026 Associate Editor, Plasmonics, Springer Nature

2025 Early Career Board Members, ACS Applied Energy Materials

2025 Early Career Advisory Board for RSC Applied Interfaces

2025 Nanoscale Emerging Investigators, Nanoscale, Wiley

2024 Nanyang Education Award (School), Nanyang Technological University

Research Areas:

Plasmonic, Nanocatalysis, Energy Reactions, Green Hydrogen and Ammonia, Hybrid Nanomaterials

Selective Publications:

1. C. Chong, S.K. Boong, T. Raja Mogan, J.M.K. Loh, Y. Ni, S. Das, H. Li, H. Arandiyan, B. Wu, H.K. Lee*. Boosting Alkaline Photoelectrocatalytic Hydrogen Evolution via Pt-Ag Electronic Hybridization and Plasmon-Molecule Interactions. *Nano Energy*, 2026, 147, 111574.
2. L.S. Ng, J.J. The, Z.Z. Ang, V. Pereira, S. Das, B.S.N. Tan, H.K. Lee*. Nanoscale Surface Activation via Reticular Chemistry for Reactive H₂S Sequestration Surpassing 1500 mgH₂S g⁻¹ under Ambient Conditions. *ACS Nano*, 19, 39349.
3. Z.Z. Ang, V. Pereira, L.S. Ng, C. Chong, H. Li, H. Yu, H.K. Lee*. Photothermal–Plasmonic Catalysis at Liquid–Liquid Interfaces: Enhancing and Steering Biphasic Reactions with Light. *ACS Catalysis*, 2025, 15, 13458.