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Yuankai Li is currently an assistant professor in school of Semiconductor and Physics, North University of China. He obtained his Ph.D. degree under the supervision of Prof. Jung Kyu Kim in School of Chemical Engineering, Sungkyunkwan University (SKKU), Republic of Korea. After receiving his Ph.D., Dr. Li conducted postdoctoral research at Sungkyunkwan University, where his work expanded to electrochemical and photoelectrochemical energy conversion systems, including water splitting, hydrogen evolution, and hybrid PEC－EC devices. His research emphasizes interfacial regulation, surface reconstruction, and reaction pathway control to improve activity, selectivity, and stability. Prof. Li's current research interests include semiconductor surface/interface engineering, photoelectrochemical energy conversion, electrocatalysis, and sustainable chemical production.