$ZnO/Al_2O_3/CuO$ Ternary Composites: A Bandgap-Engineered Solution for High-Efficiency Photocatalytic Hydrogen Generation

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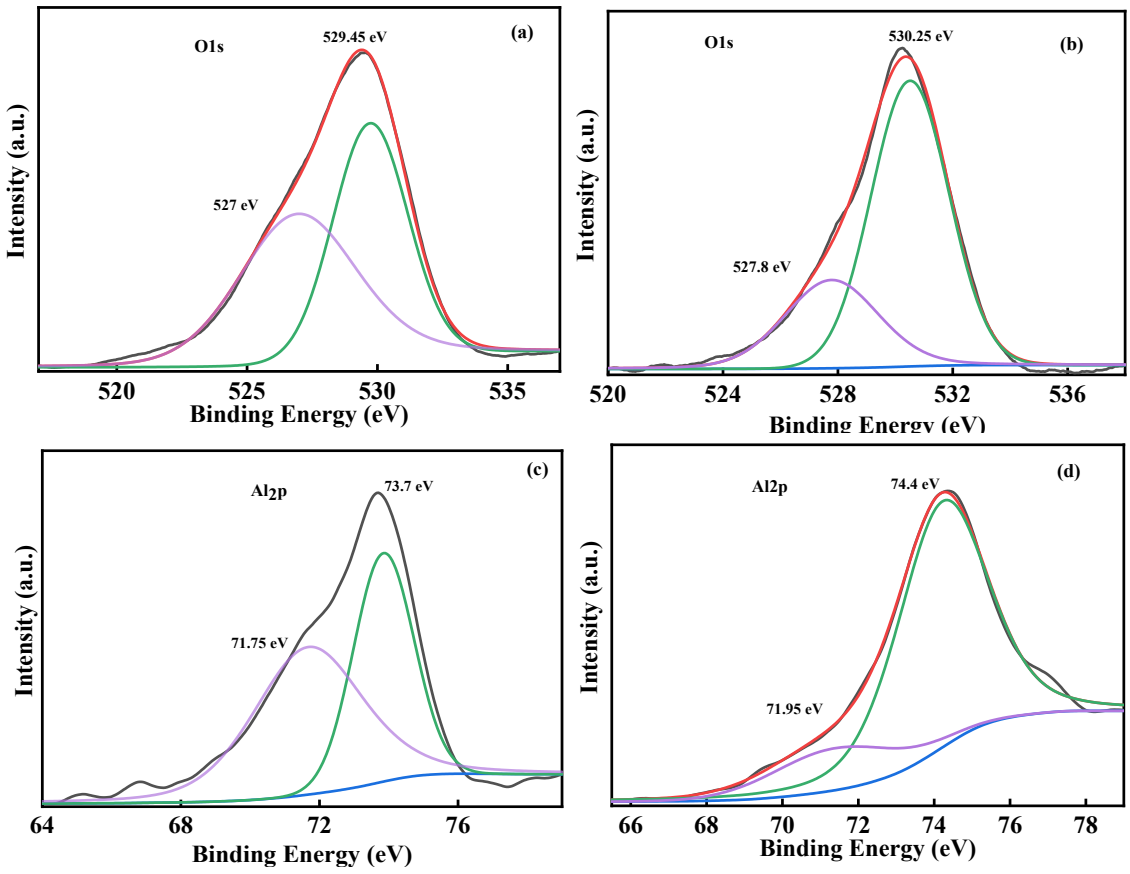
Supporting Information



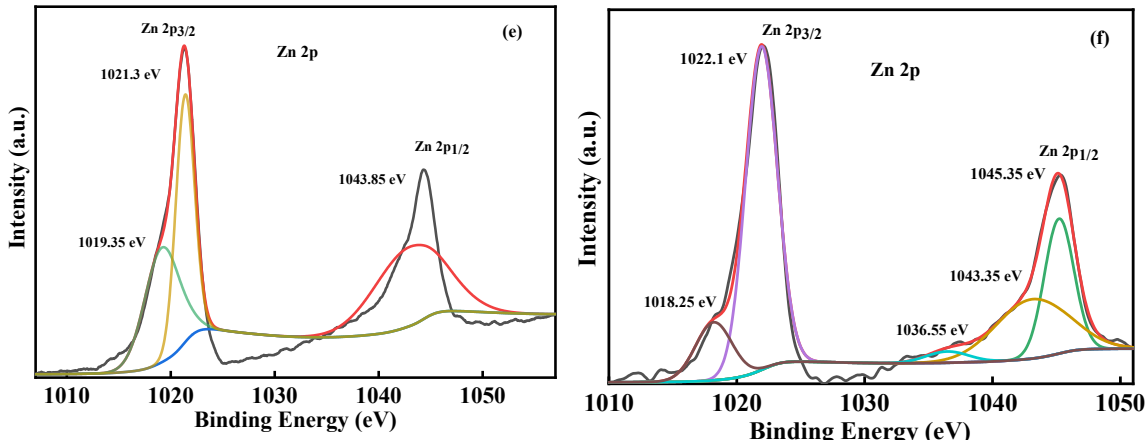


Figure S1. High-resolution XPS spectra of the core levels for (a) O 1s of ZnO/Al_2O_3/CuO, (b) O 1s of ZnO/Al_2O_3, (c) Al 2p of ZnO/Al_2O_3/CuO, (d) Al 2p of ZnO/Al_2O_3, (e) Zn 2p of ZnO/Al_2O_3/CuO, and (f) Zn 2p of ZnO/Al_2O_3 nanocomposites.

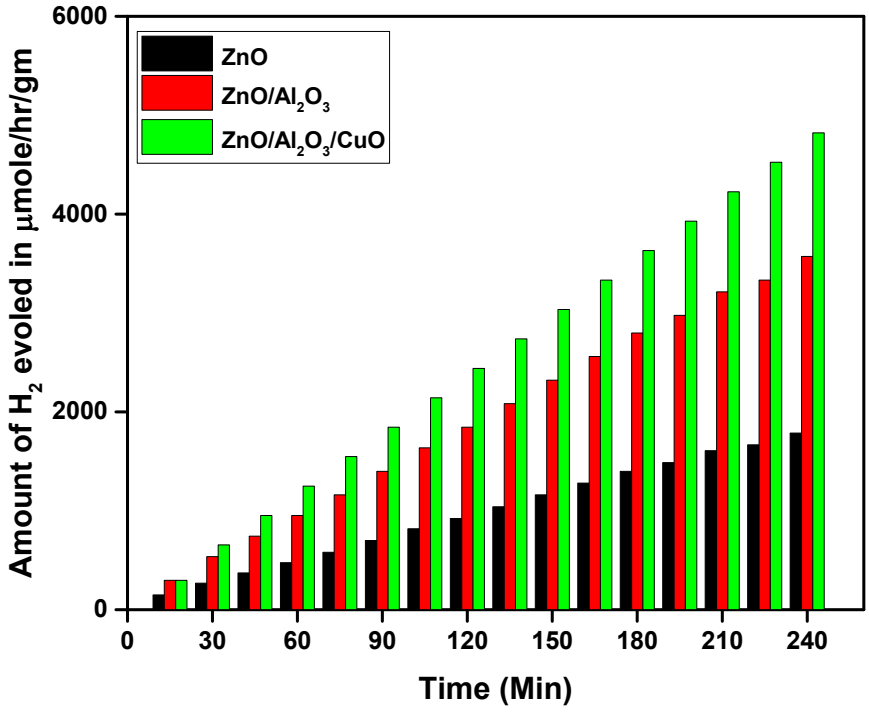


Figure S2: H_2 evolution rate via water splitting under visible light using ZnO and ZnO/Al_2O_3 and ZnO/Al_2O_3/CuO nanocomposite