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Three-dimensional NiCu Layered Double Hydroxide Nanosheets Array on Carbon Cloth for Enhanced Oxygen Evolution

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Abstract: we develop a co-precipitation strategy to prepare an ultrathin NiCu layered double hydroxide (LDH) nanosheet arrays on carbon cloth (CC). As an advanced catalysts of oxygen evolution reaction (OER) with a three-dimensional nano-architecture, the as-prepared NiCu LDH/CC hybrids exhibit a remarkably small Tafel slope (ca. 42.5 mV dec⁻¹), a low overpotential (ca. 290 mV required for 10 mA cm⁻²), and a high stability with 90.6% activity retention after 5 h continuous

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