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CuO grown on copper of high performance electrocatalyst for O₂ electroreduction

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Abstract : The aim of this work is to synthesize copper oxide on copper electrode electrochemically for use in the O₂ electroreduction. The growth of CuO arrays on Cu foil was demonstrated. The morphology and structure of the CuO were examined by X-ray diffraction spectroscopy. The catalytic performance of the obtained CuO/Cu electrode for O₂ electroreduction was evaluated by means of cyclic voltammetry, chronoamperometry.

Keywords : Copper substrate, electrocatalyst