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# CuO grown on copper of high performance electrocatalyst for O<sub>2</sub> electroreduction

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**Abstract :** The aim of this work is to synthesize copper oxide on copper electrode electrochemically for use in the O<sub>2</sub> 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 O<sub>2</sub> electroreduction was evaluated by means of cyclic voltammetry, chronoamperometry.

**Keywords :** Copper substrate, electrocatalyst