## Mo-doped BiVO<sub>4</sub>/Cu<sub>x</sub>O photocatalyst film with enhanced photoelectrochemical properties

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The design of multilayer oxide films heterojuctions for photoanodes enables the control of charge transport/transfer and optical properties, and thus leads to efficient photoelectrochemical performance. In this research, a Mo-doped  $BiVO_4/Cu_xO$  based photoanode was fabricated by sequential spin coating method on an FTO substrate followed by thermal treatment. First, bottom Mo-BiVO<sub>4</sub> layers were deposited, and subsequently  $Cu_xO$  layers were loaded. Copper oxide contents were controlled by varyring gas concentrations composed with  $N_2$  and air. The synthesized photoanodes were examined by SEM, TEM, XRD, UV-vis as well as electrochemical measurements.