

Publication

A self-assembled, multicomponent water oxidation device

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Langmuir–Blodgett (LB) and drop-cast (DC) films prepared from $[\text{Ru}(\text{I})_3][\text{PF}_6]_2$ and Co_4POM ($1 = 4,4''\text{-bis}(\text{nonyl})\text{-}2,2''\text{-bipyridine}$, $\text{Co}_4\text{POM} = \text{K}_{10}[\text{Co}_4(\text{H}_2\text{O})_2(\alpha\text{-PW}_9\text{O}_{34})_2]$) have been evaluated as water oxidation catalysts and their electrocatalytic performances are reported; DC films evolve more O_2 per unit area than LB films and the catalyst is stable on an FTO surface for $\approx 500\text{--}600$ minutes.

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