

The purpose of coating the LiCoPO_4 by UiO-66 metal-organic framework is to enhance the electrochemical performance due to the MOF acts as a source of both carbon and metal atoms, which improves conductivity. So, we first prepared the UiO-66, as you see in the following figure, and the XRD confirmed that the sample is a single phase of UiO-66 without any impurities, and then we coated the LiCoPO_4 by a small amount of UiO-66, So the uio-66 formed on the surface and did not appear in the XRD.

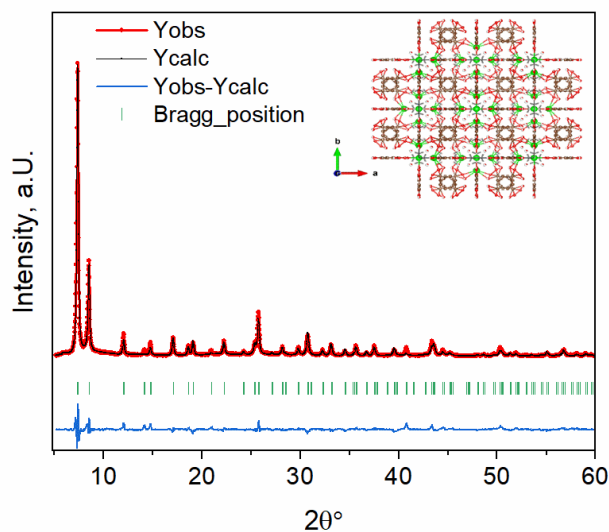


Figure S1. (a) Experimental (red) and calculated (black) profiles of the synthesized sample UiO-66. Vertical lines indicate calculated pick positions. A difference plot (blue) is provided at the bottom

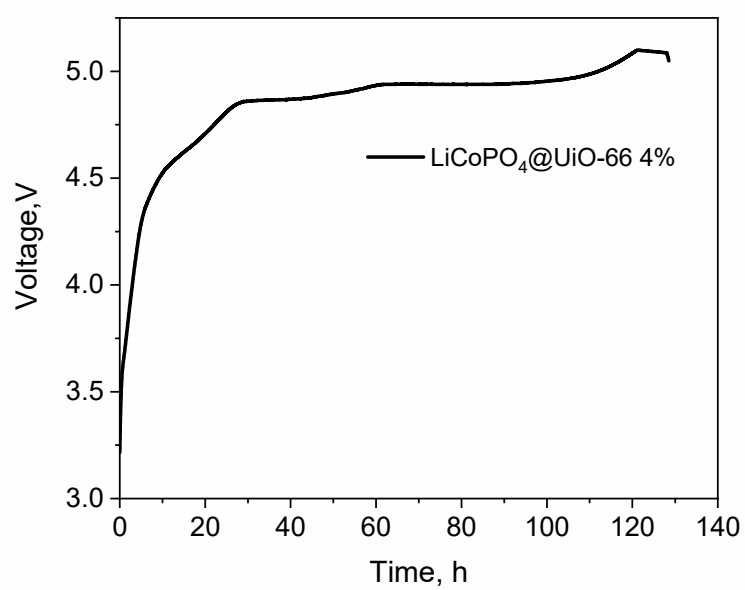


Figure S2. The electrochemical performance of LiCoPO₄@UiO-66 with 4% additive.