Enhanced electrochemical properties of cellular CoPS@C nanocomposite for HER, OER and Li-ion battery
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Fig. S1 XPS survey spectrum of CoPS@C nanocomposite.

Fig. S2 OER stability test of the CoPS@C electrode with an initial polarization curve and after 1000 cycles in 1.0 M KOH solution.
Fig. S3 Cyclic voltammograms of bulk CoPS at different scan rates.

Fig. S4 HER stability test of the CoPS@C electrode with an initial polarization curve and after 1000 cycles in 0.5 M H$_2$SO$_4$ solution.

Fig. S5 The four voltammograms of CoPS@C nanocomposite electrode after 50 cycles at 0.2 A g$^{-1}$ between 0.01 V and 3 V.
Fig. S6 Cycle testing of an ex situ XRD pattern of the CoPS@C nanocomposite electrode.