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Flexible, Swiss roll, fiber-shaped, asymmetric supercapacitor using MnO_2 and Fe_2O_3 on carbon fibers

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Graphical abstract

A Swiss roll, fiber-shaped, asymmetric supercapacitor (FSASC) was successfully fabricated by simply rolling an Fe_2O_3/CF negative electrode and a MnO_2/CF positive electrode with PVA-$LiClO_4$ gel electrolyte. This Swiss roll FSASC can be operated in large potential windows up to 2.0 V and shows excellent rate capability, cycling stability, and device flexibility.