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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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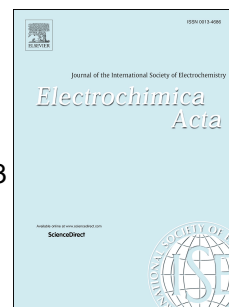
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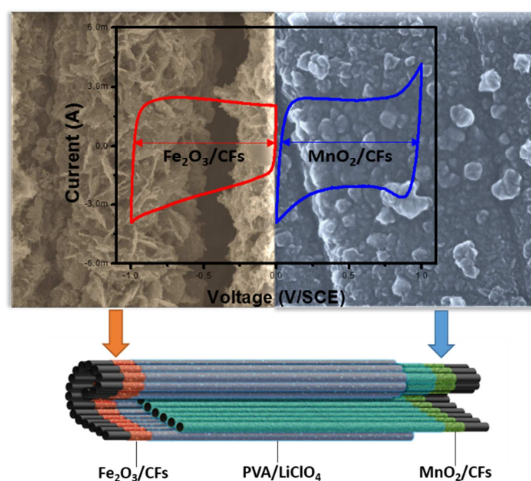
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Graphical abstract

A Swiss roll, fiber-shaped, asymmetric supercapacitor (FSASC) was successfully fabricated by simply rolling an $\text{Fe}_2\text{O}_3/\text{CF}$ 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.



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