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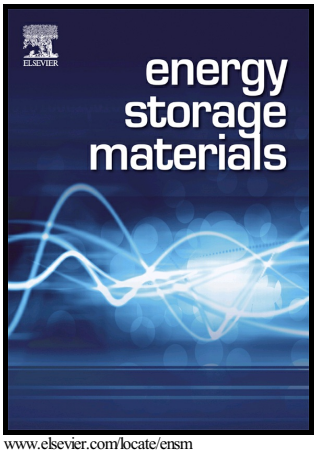

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Hand-drawing Patterned Ultra-thin Integrated Electrodes for Flexible Micro Supercapacitors

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Abstract

In-plane micro supercapacitors (SCs) are important energy storage devices for portable and wearable electronics due to advantages of miniature size, facile integration with on-chip electronics as well as high power density, fast charging rate, and long cycle life. However, current fabrication methods need expensive raw materials, high-cost equipment, and are complex, inconvenient to fabricate micro SCs of different patterns, and difficult to improve the binding force between current collectors and active materials. In this work, a low-cost, facile, efficient and versatile approach is developed for fabricating flexible micro SCs. In-