

# Customized processing of energy storage batteries





## Overview

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Can additive manufacturing be used for electrochemical energy storage devices?

Additive manufacturing used for electrochemical energy storage devices such as batteries and supercapacitors are compared. We summarise advances and the role of methods, designs and material selection for energy storage devices by 3D printing. Sandwich and in-plane 3D printed battery and supercapacitor devices are compared in context.

Do energy storage devices need a printable material?

Additively manufactured energy storage devices require active materials and composites that are printable, and this is influenced by performance requirements and the basic electrochemistry.

What are 3D printed electrochemical energy storage devices (eesds)?

Traditional electrochemical energy storage device (EESD) construction includes electrode fabrication, electrolyte addition and device assembly. Although these processes are well optimized for an assembly line production, 3D printed EESDs are desirables in markets with high demand for customization, flexibility and design complexity.

Are 3D structures better than traditional electrochemical energy storage devices?

Thoughtfully designed 3D structures are reported to show better performance in batteries and supercapacitors [17, 18]. Traditional electrochemical energy storage device (EESD) construction includes electrode fabrication, electrolyte addition and device assembly.



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### Additive manufacturing for energy storage: Methods, ...

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composites that are printable, and this is influenced by performance requirements and the ...

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