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# Wrinkled Graphene-Reinforced Nickel Sulfide Thin Film as High-Performance Binder-Free Anode for Sodium-Ion Battery

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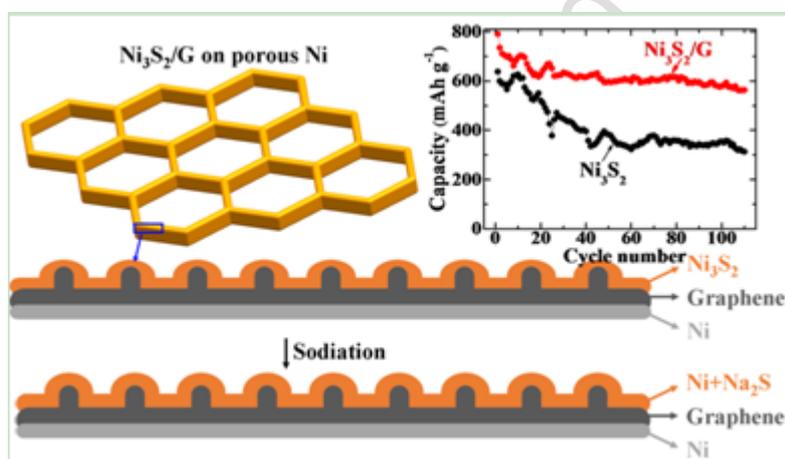
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## Graphical Abstract



Sodium-ion batteries (SIBs) recently have received a worldwide attention due to the resource abundance of sodium and similar battery chemistry with lithium-ion batteries (LIBs). However, search for suitable anodes for SIBs still remains a challenge since graphitized carbon, the anode for commercial LIBs, usually exhibits low electrochemical Na-storage activity. In this work, a unique graphene-reinforced  $\text{Ni}_3\text{S}_2$  thin film ( $\text{Ni}_3\text{S}_2/\text{G}$ )

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