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As one of the most reliable power sources for portable and wearable electronics, aqueous zinc-ion batteries fully meet the requirement of high safety, while their energy storage ability is still limited by the lack of high-performance cathode materials. In this study, the poor electrical conductivity and sluggish interface reaction of cobalt molybdate ( $\text{CoMoO}_4$ ) nanosheets are well addressed by one-step phosphating treatment (denoted as  $\text{P-CoMoO}_4$ ), which serve as an advanced cathode material ...

Boosting the interface reaction activity and kinetics of ...

The ternary composite exhibits a high specific capacitance of  $450 \text{ F g}^{-1}$  in a symmetric cell

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Configuration, with maximum energy density of 131.4 Wh kg<sup>-1</sup> and power density of 27.49 kW kg<sup>-1</sup>. The ternary hybrid also shows a cyclic stability of 91 % after 5000 cycles. Extensive density functional theory (DFT) simulations on the structure as well as on the electronic properties of the binary hybrid structure VSe<sub>2</sub>/SWCNTs and the ternary hybrid structure VSe<sub>2</sub>/SWCNTs/rGO have been ...

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