

Can antimony batteries be used for power generation and energy storage



Overview

Can antimony be used for energy storage?

Research which focused on DFT studies also showed the potential of monolayer Sb for LIB anodes in rechargeable batteries, which could provide relatively strong Li adsorption. In conclusion, antimony is a rare element on the planet, but it offers intriguing features when it comes to the needs of energy storage systems.

Is antimony a good material?

Pure antimony material, although energy density and power density are not as good as other materials. Its simple synthesis process can bring some economic benefits. The composite modification means can realize more considerable electrochemical performance enhancement [5, 58].

Can antimony materials be used in commercial production?

The composite modification means can realize more considerable electrochemical performance enhancement [5, 58]. Therefore, choosing pure antimony material may be one of the first choices for commercial production. In the sequel, we present applications of Sb-based anode materials and their derivatives and discuss their practical feasibility.

Can antimony be commercialized?

Considerations are made in terms of the economics of the material and the fact that it can be commercialized. Pure antimony material, although energy density and power density are not as good as other materials. Its simple synthesis process can bring some economic benefits.

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