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Sb_2Te_3-TiC-C nanocomposites for the high-performance anode in lithium-ion batteries

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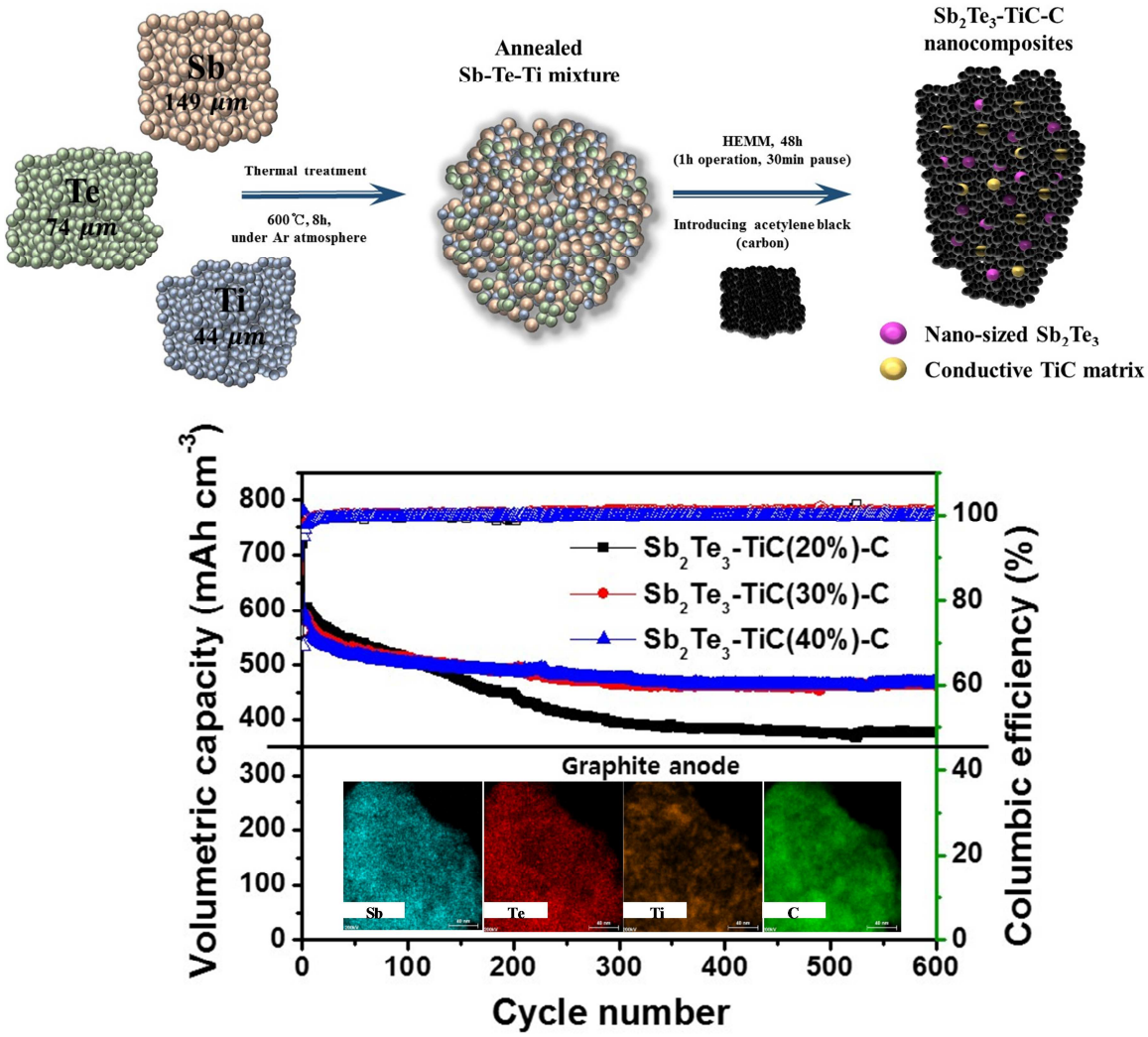
Graphical abstract



Nanocomposite of Sb_2Te_3-TiC-C is synthesized via a simple and scalable high-energy mechanical milling process and heat treatment as a high-performance anode material for lithium-ion batteries. The appropriate amount of TiC formation into Sb_2Te_3-C significantly improves the electrochemical performances.