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In-situ growth of carbon nanotubes on Two-Dimensional titanium carbide for enhanced electrochemical performance

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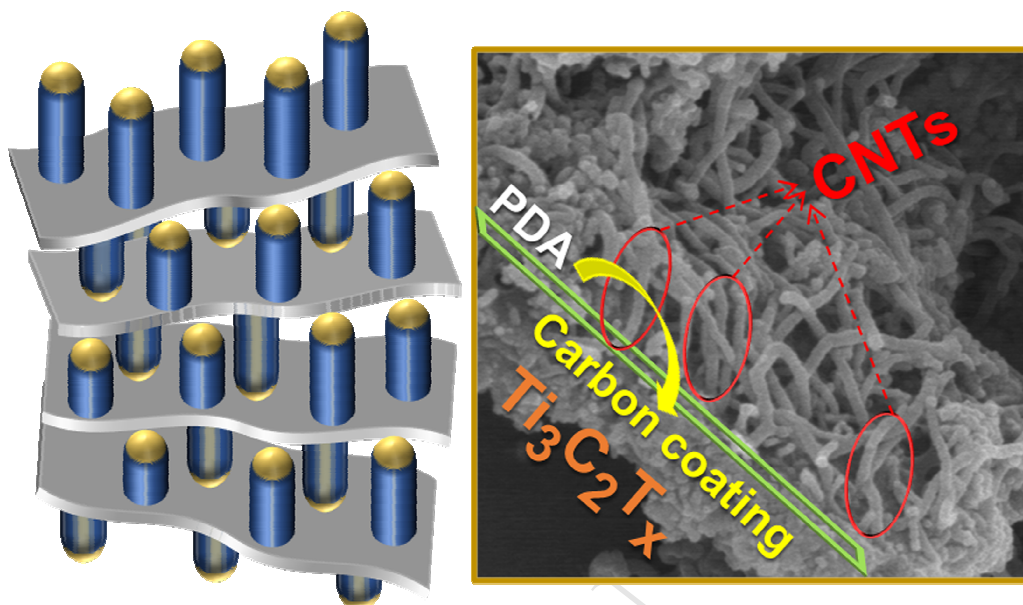
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## Graphical abstract



## Highlights

- A controllable preparation method was obtained to synthesize Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub>@CNTs 3D composites.
- The integrity of Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> structure is essential for the preparation of Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub>@CNTs composites.
- The areal capacitance of Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub>@CNTs<sub>6.0</sub> is as high as 924.9mF cm<sup>-2</sup> at 2 mV s<sup>-1</sup>.

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