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Authors: Liangming Wei, Zhongyu Hou, Hao Wei

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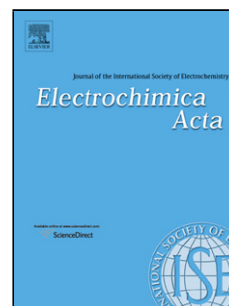
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Highlights

In situ hydrolysis of tetraethoxysilane within the confined galleries region of graphite oxide. New porous sandwiched graphene/Si nanocomposites were prepared by magnesium thermal reduction.

The Si nanostructure was compactly sandwiched between two neighboring graphenes.

The Si/graphene anodes deliver large reversible capacity with excellent cycling stability.

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