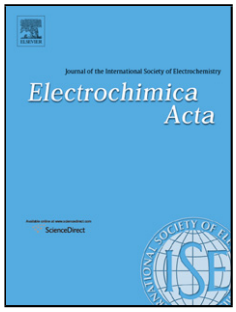


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## Highlights

*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.