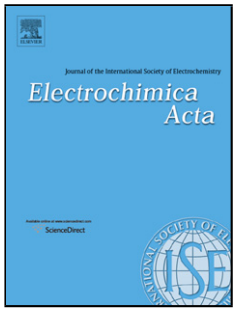

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Highlights

- Graphene nanosheets are obtained by modified Hummers' method yielding low impurities
- Graphene nanomaterial is characterized by spectroscopic and microscopic techniques
- Electrochemistry of obtained graphene is correlated to the synthetic conditions
- Sensitive impedimetric thrombin aptasensor is developed using specific DNA aptamer