

Supporting Information

A green and ultrafast approach to synthesis scalable graphene sheets by Zn powder for electrochemical energy storage

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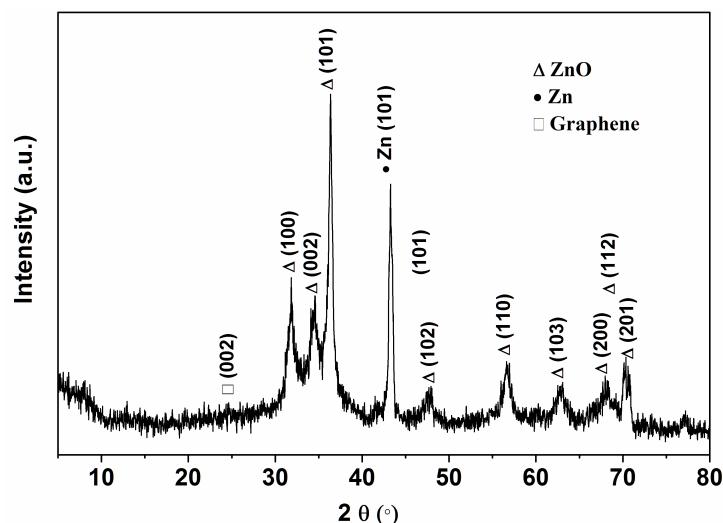


Figure S1 The XRD pattern of the-as prepared GNs-10 without removing the residual Zn and ZnO nanoparticles.

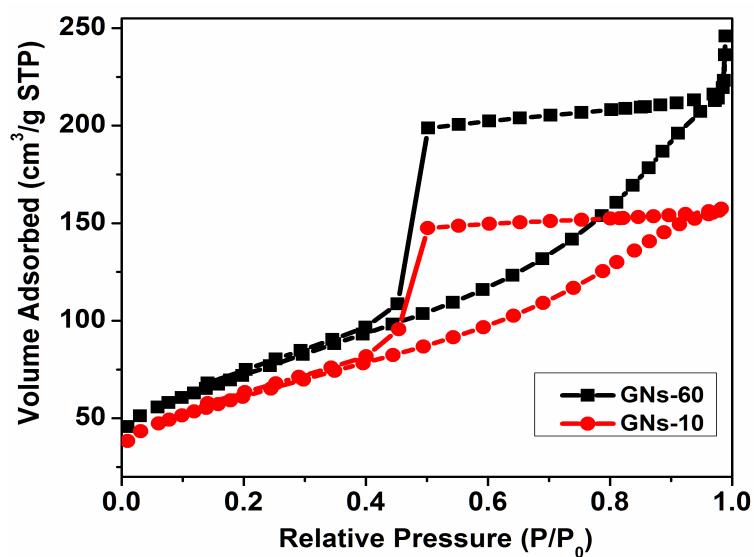


Figure S2 N_2 adsorption isotherms of plot GNs-60 and GNs-10

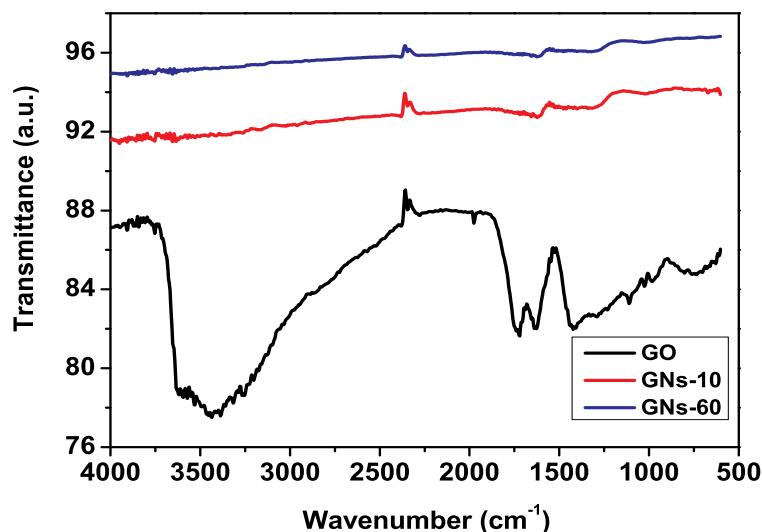


Figure S3 FTIR spectra of GO, GNS-10 and GNS-60

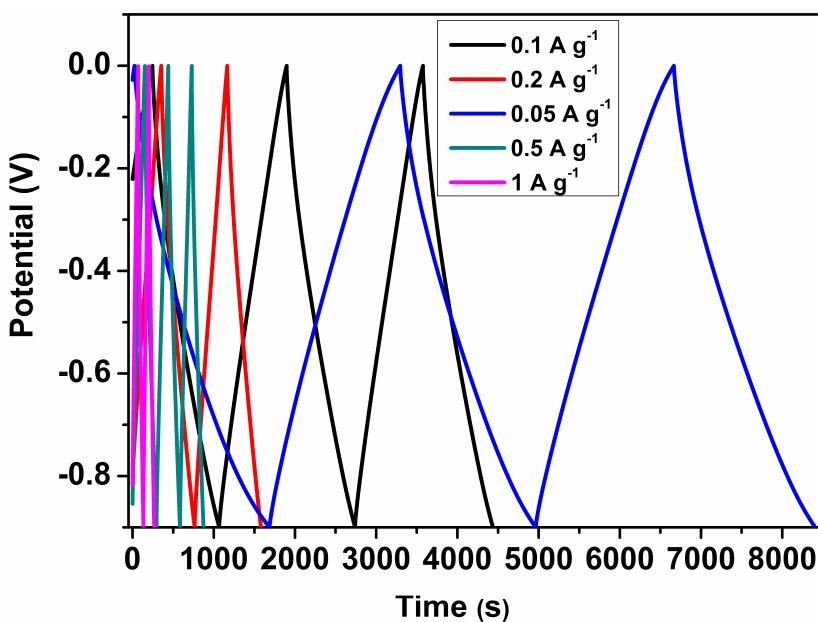


Figure S4 Galvanostatic constant-current charge/discharge performance of GNS-10.

Table S1 Comparison of measured parameters of graphene prepared by different approaches

Reduction approach	Reduced time	Temperature (°C)	C:O ratio	Conductivity (S/m)	Ref
GO/propylene carbonate	12 h	200	6.8	1800	11
GO/NaBH ₄	48 h	room temperature	5.3	45	26
GO/ascorbic acid	48 h	room temperature	unknown	800	27
GO/Fe	6 h	room temperature	7.9	2300	33
GO/Zn in alkaline condition	10 min	room temperature	8.05	2160	present work

Ref: the corresponding reference.