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## Reduced Graphene Oxides: The Thinnest and Most Lightweight Material with High-efficient Microwave Attenuation Performances around Carbon World

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### Supplementary Information

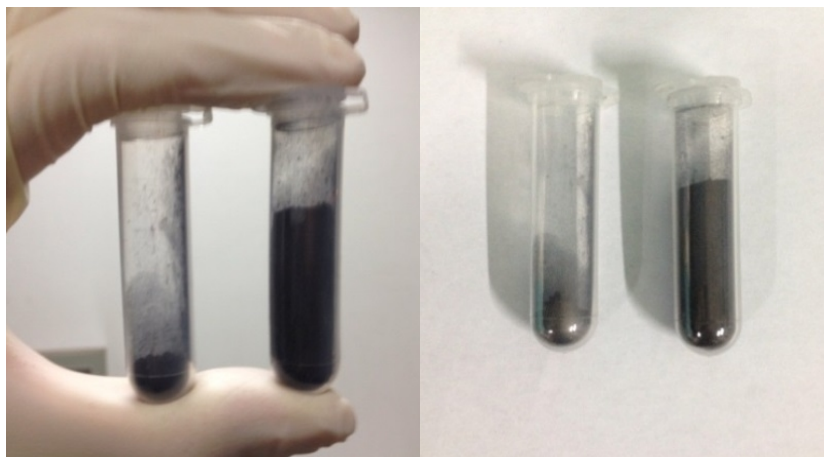


Figure S1. Powders of the GN and r-GO with the same weight, where the volume of the r-GOs is  $\sim 8$  time larger than that of the GNs, indicating the much smaller tap density of the r-GOs.

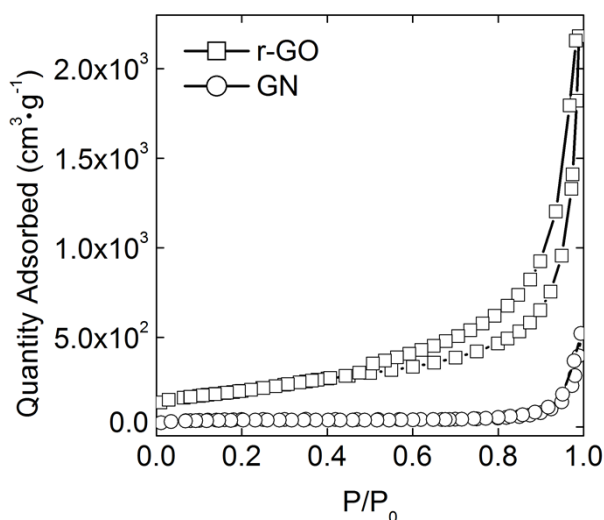


Figure S2. BET adsorption-desorption curves of the r-GO and GN.

Table S1 Specific surface area of the r-GO and GN.

Sample	Single point surface area $\text{m}^2/\text{g}$	BET Surface Area $\text{m}^2/\text{g}$
r-GO	707.3297	717.4939
GN	132.198	133.51

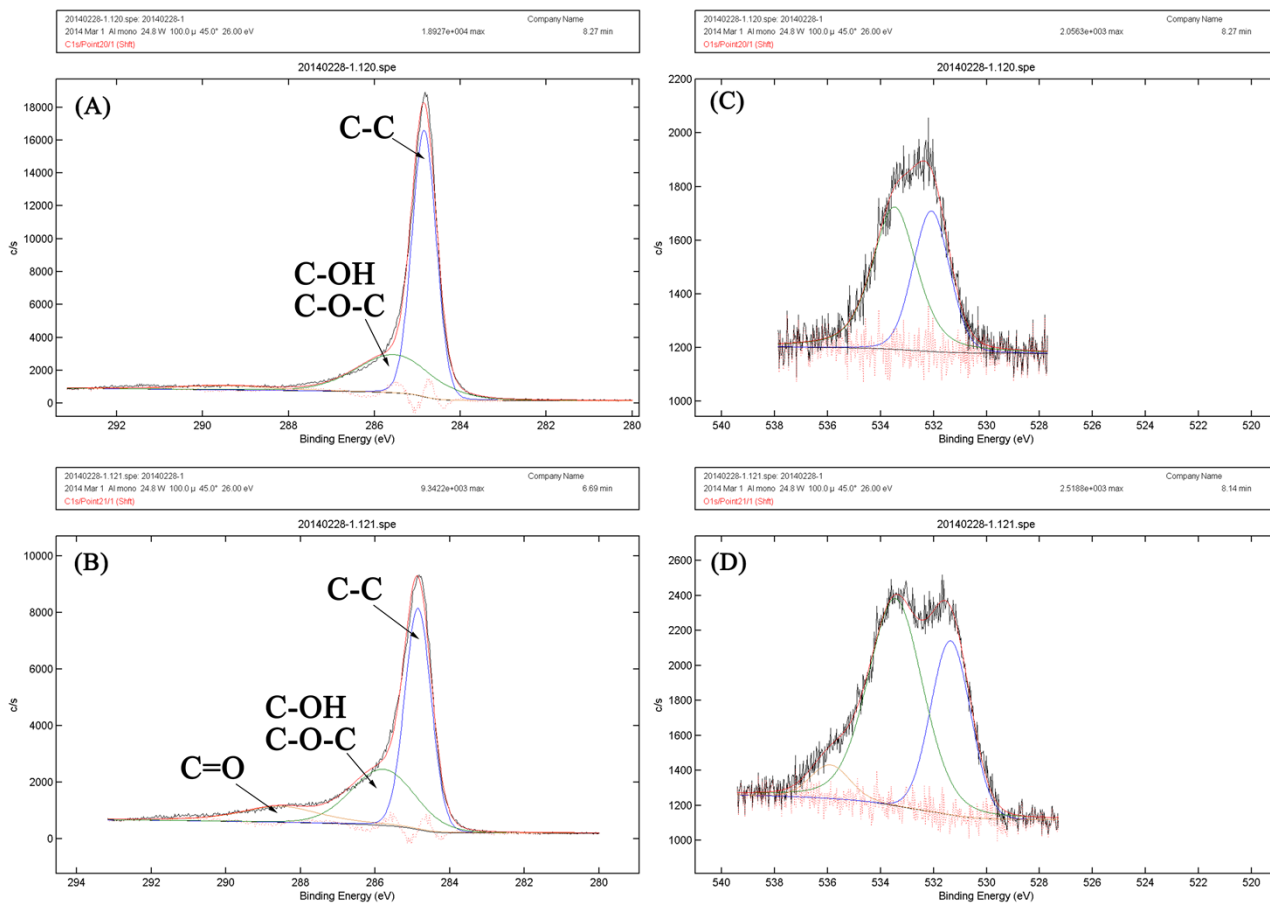


Figure S3. C1s XPS of (A) GN and (B) r-GO. O1s XPS of (C) GN and (D) r-GO.

Table S2. Chemical composition (atomic %) of the GN and r-GO

Sample	C	O	C/O
GN	95.7	4.3	22.26
r-GO	84.3	13.7	6.15