

## Electronic Supplementary Information

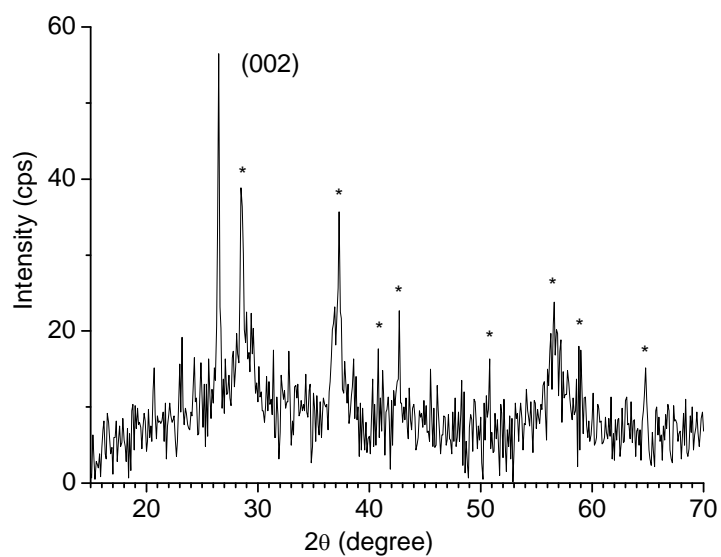
### Ultrasound-free preparation of graphene oxide from mechanochemically oxidized graphite

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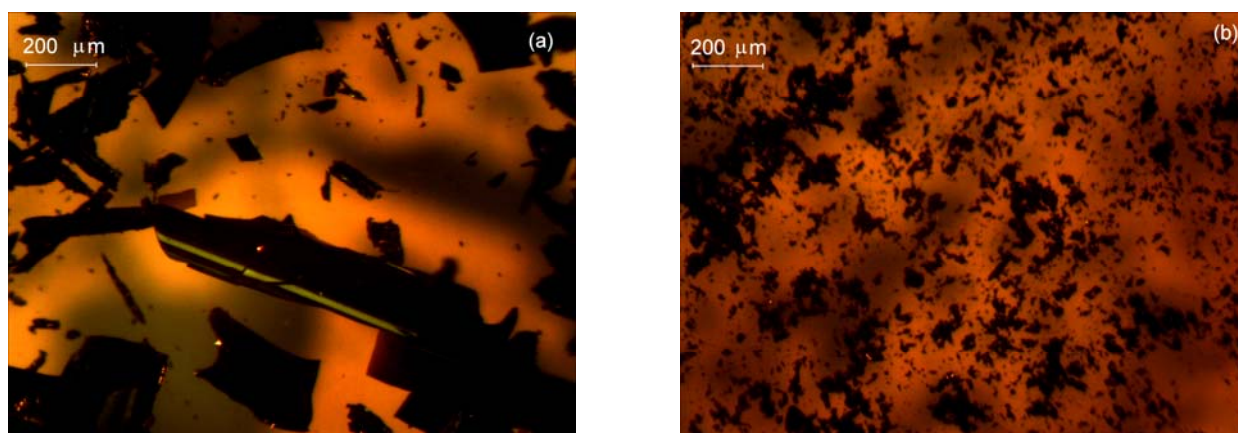
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**Fig. S1** Photographs of wGO (left) and dGO (right) dispersions.



**Fig. S2** X-ray diffractogram of the graphite/MnO<sub>2</sub> mixture after its mechanochemical treatment (500 rpm during 3 hours). Asterisks denote the reflexes of MnO<sub>2</sub> (No. 020567 from PDF-2).



**Fig. S3** Photographs of the precursor of wGO before (a) and after (b) the thermal treatment 1000°C during 30 s.