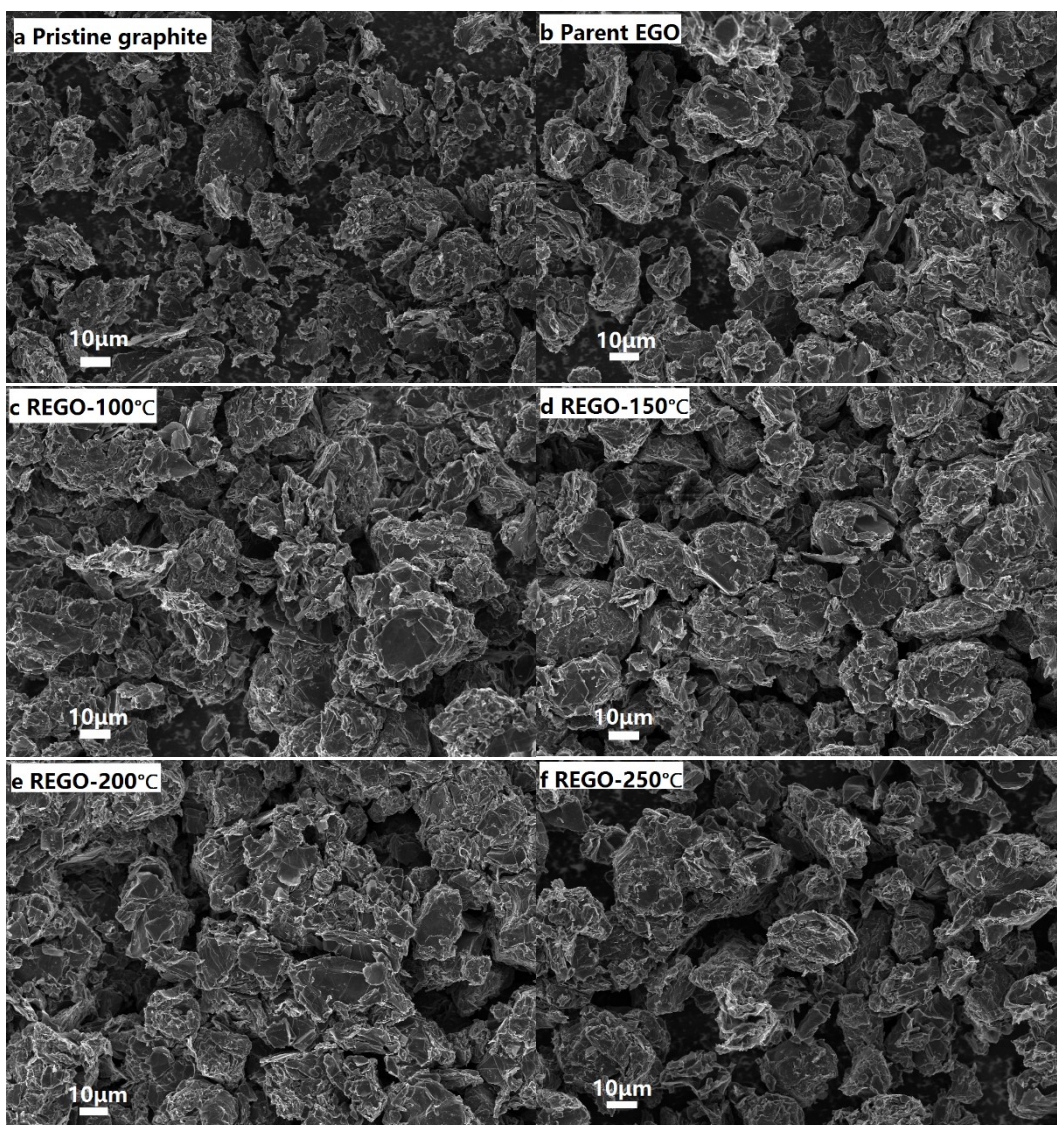


Supplementary data for

Insights into thermal reduction of the oxidized graphite from the electro-oxidation processing of nuclear graphite matrix

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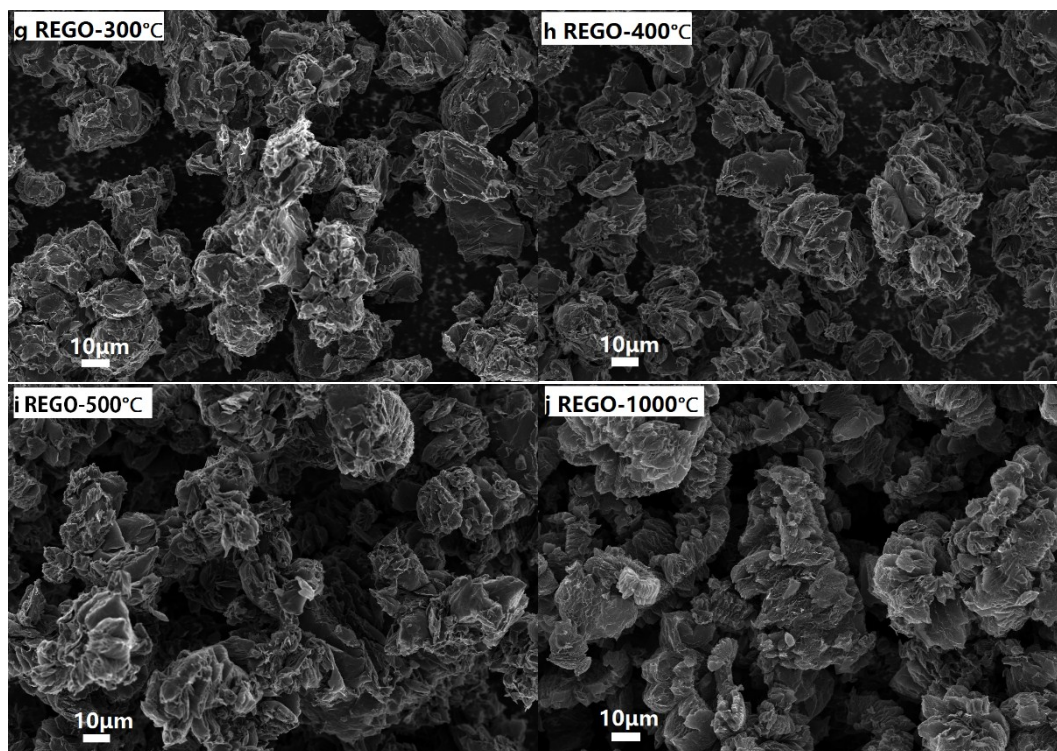
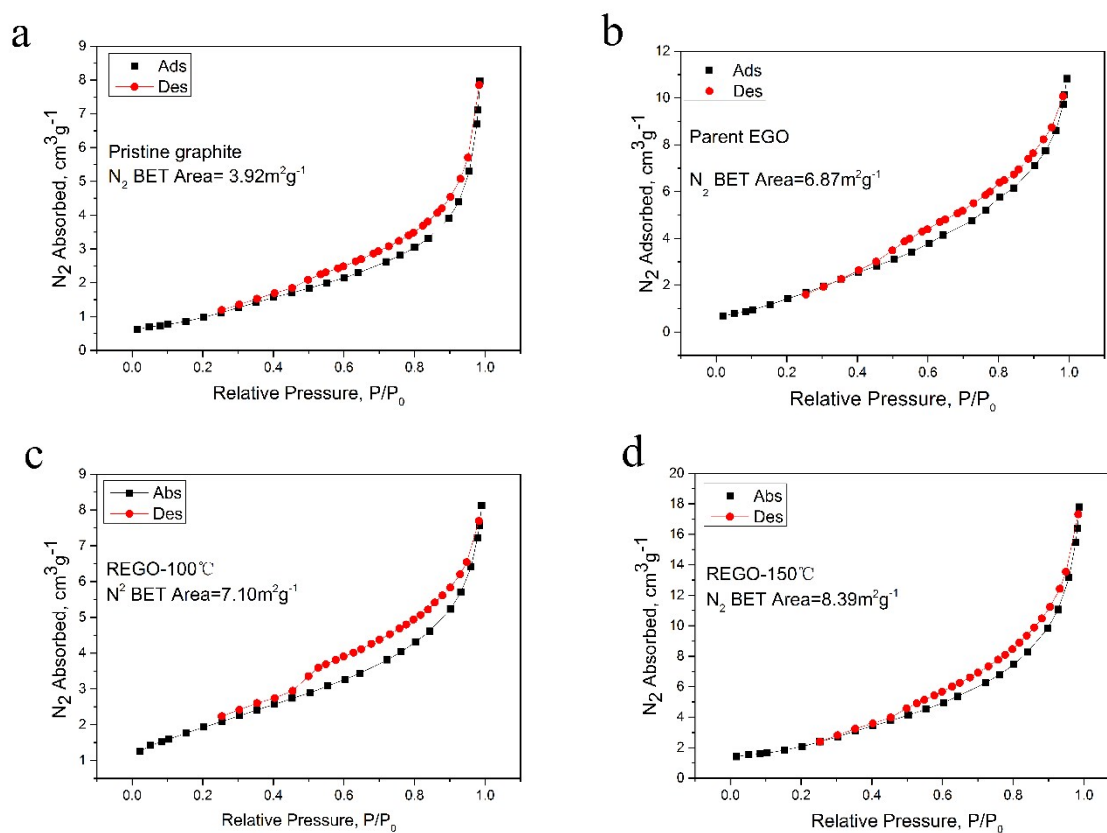


Fig.S1 SEM images (at 500×magnification) of the REGO annealed at different temperatures



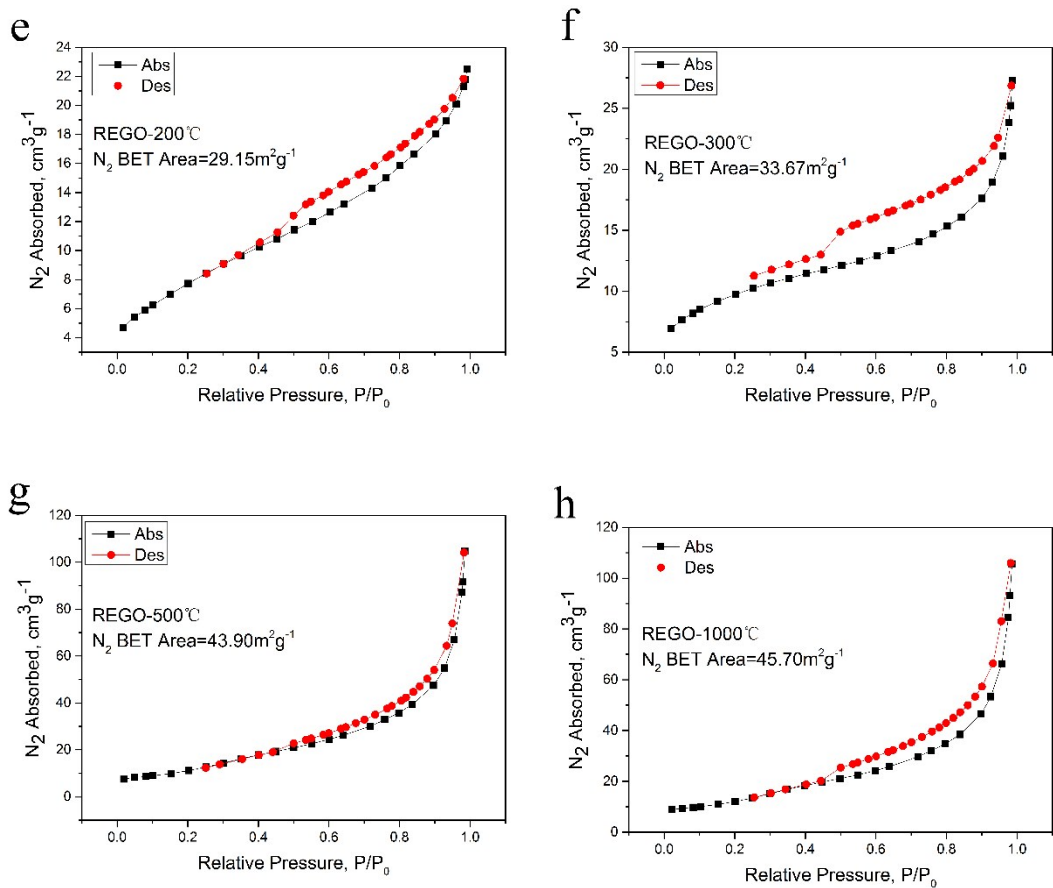


Fig.S2 N₂ adsorption/desorption isothermal curve of a) Pristine graphite; b) Parent EGO; c) REGO-100°C; d) REGO-150°C; e) REGO-200°C; f) REGO-300°C; g) REGO-500°C; h) REGO-1000°C

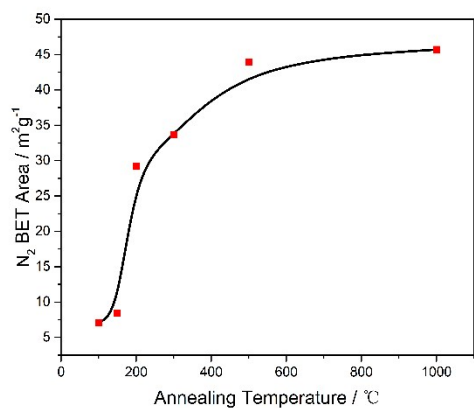


Fig.S3 Temperature-dependence of the N₂ BET surface area of REGO;

Sample	PG	Parent EGO	REGO- 100°C	REGO- 150°C	REGO- 200°C	REGO- 300°C	REGO- 500°C	REGO- 1000°C
N ₂ BET surface area/m ² g ⁻¹	3.90	6.87	7.10	8.39	29.15	33.67	43.90	45.70

Table S1-value of N₂ BET surface area of REGO

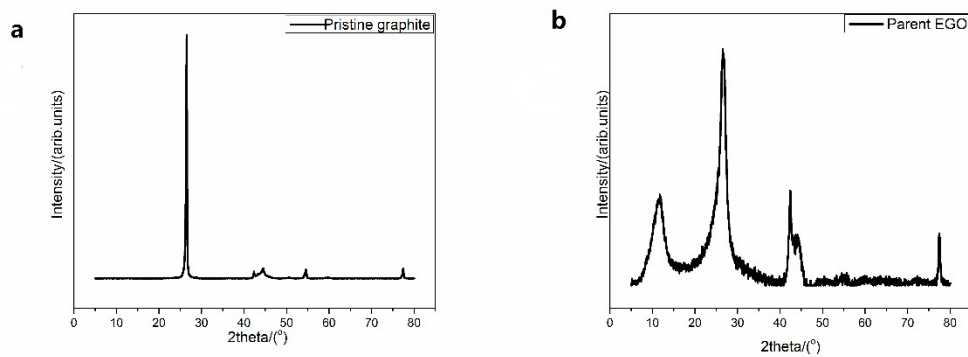


Fig.S4 XRD spectra of a) Pristine graphite and b) Parent EGO