

Supplementary Material

A facile freeze-thaw ultrasonic assisted circulation method of graphite flakes prepared by anode graphite from spent lithium-ion batteries for application in nanofluids

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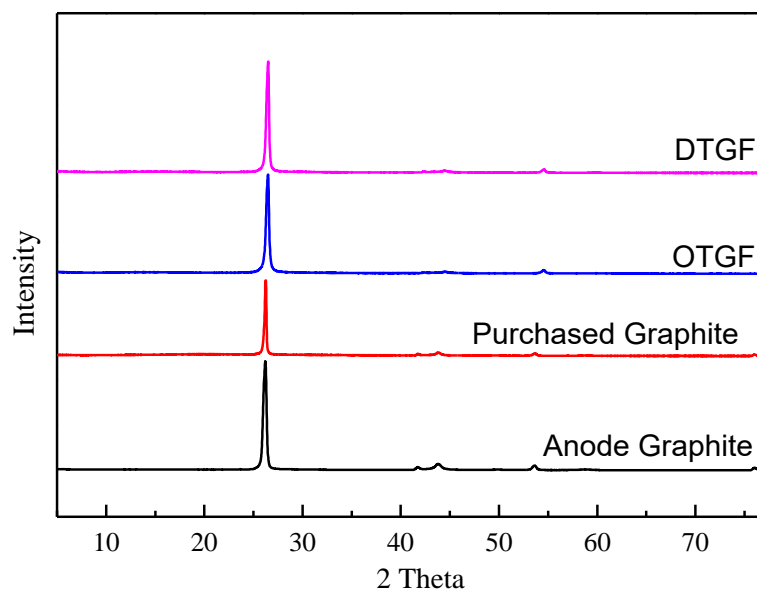


Figure S1. XRD images of graphite materials

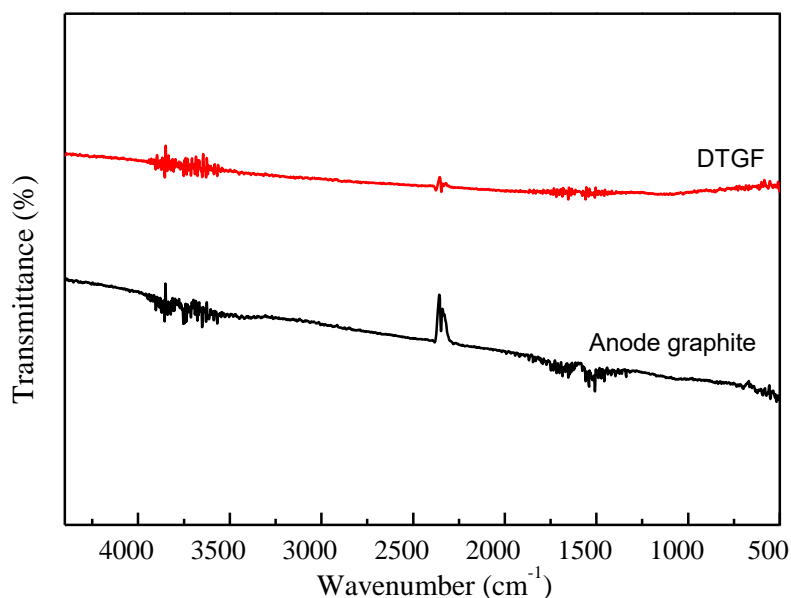


Figure S2. FT-IR images of anode graphite materials from spent lithium-ion batteries and DTGF.

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Table S1. BET report of OTGF and DTGF

Name	OTGF	DTGF
BET Surface Area	13.9191 ± 1.1029 m ² /g	16.6113 ± 2.1742 m ² /g
Slope	0.262279 ± 0.024454 g/cm ³ STP	0.140497 ± 0.033629 g/cm ³ STP
Y-Intercept	0.050428 ± 0.003996 g/cm ³ STP	0.121529 ± 0.006731 g/cm ³ STP
Q _m	3.1979 cm ³ /g STP	3.8164 cm ³ /g STP
Correlation Coefficient	0.9789509	0.9472027
Molecular Cross-Sectional Area	0.1620 nm ²	0.1620 nm ²