

High-performance lithium sulfur batteries based on multidimensional graphene-CNT-nanosulfur hybrid cathodes

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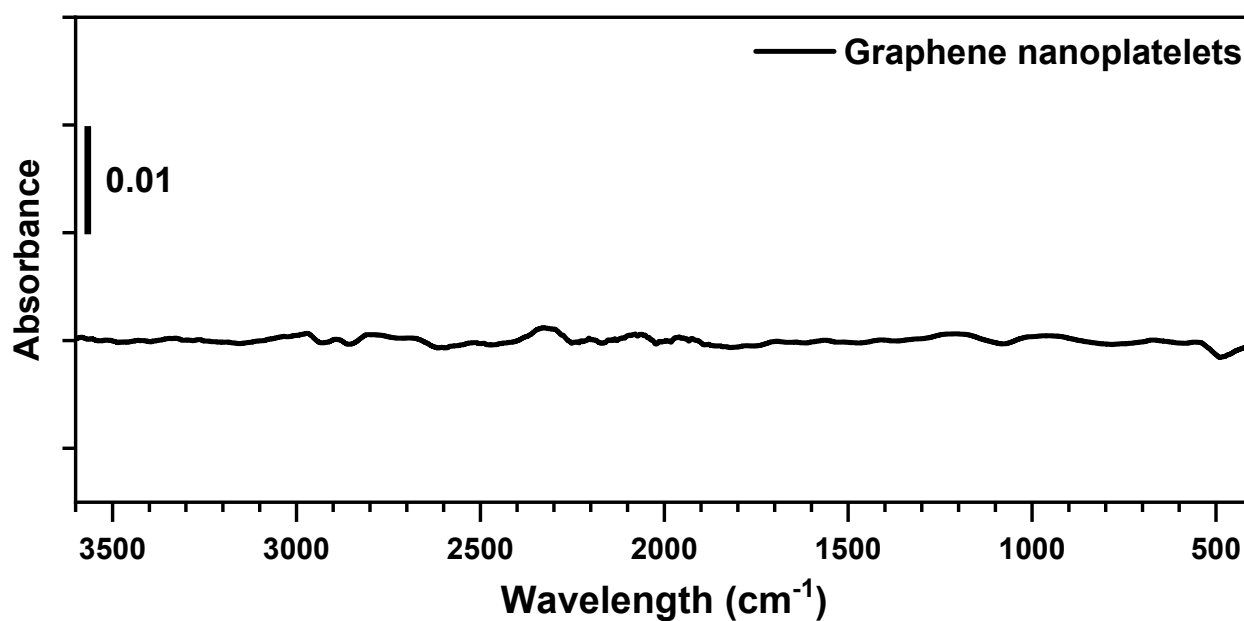


Figure S1. ATR-FTIR spectrum of multilayered graphene nanoplatelets.

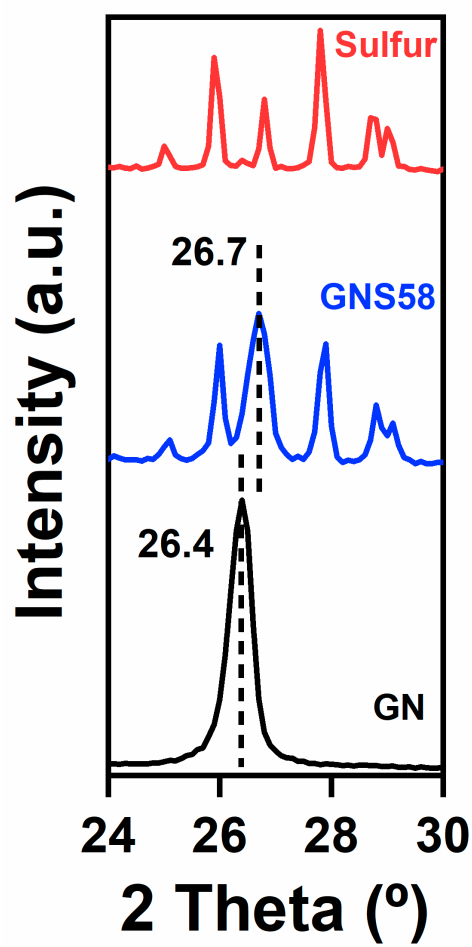


Figure S2. X-ray diffraction patterns of elemental sulfur, GNS58 and graphene nanoplatelets

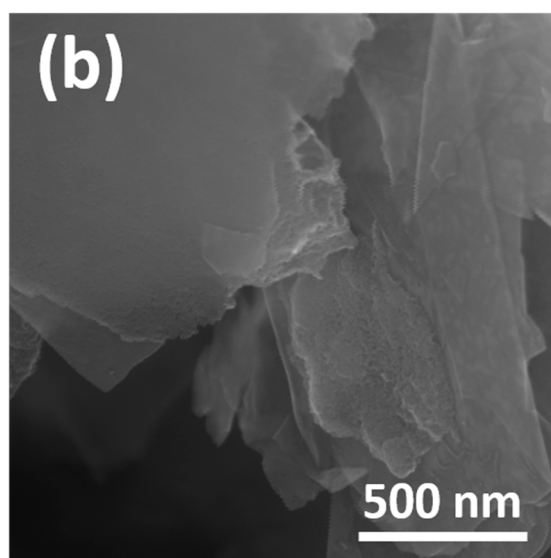
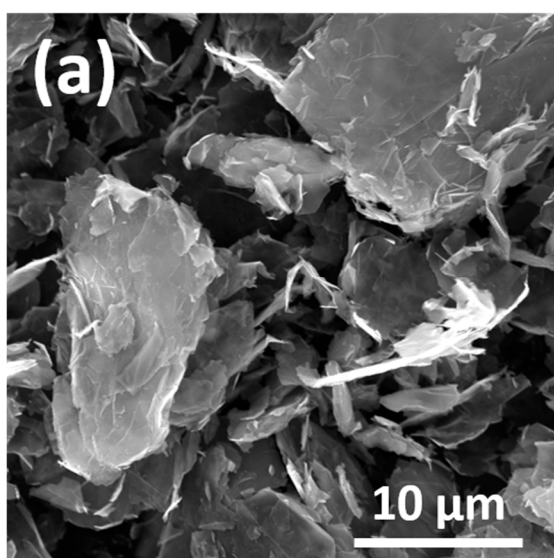


Figure S3. SEM images of graphene nanoplatelets

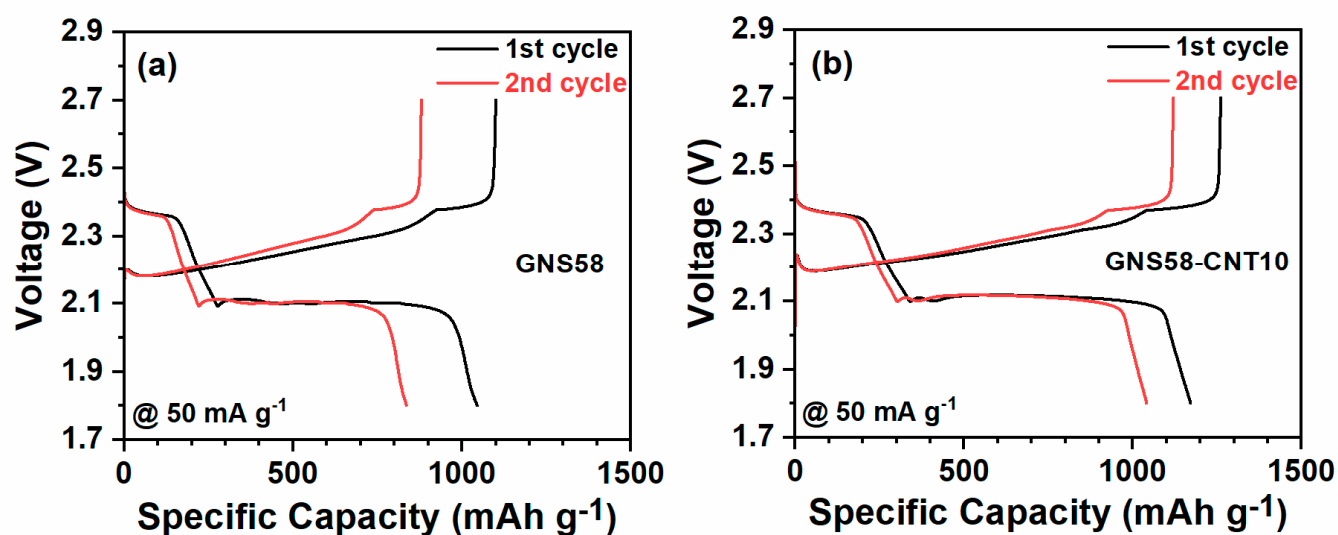


Figure S4. First and second galvanostatic voltage profiles of (a) GNS58 and (b) GNS58-CNT10 at a current density of 50 mA g⁻¹

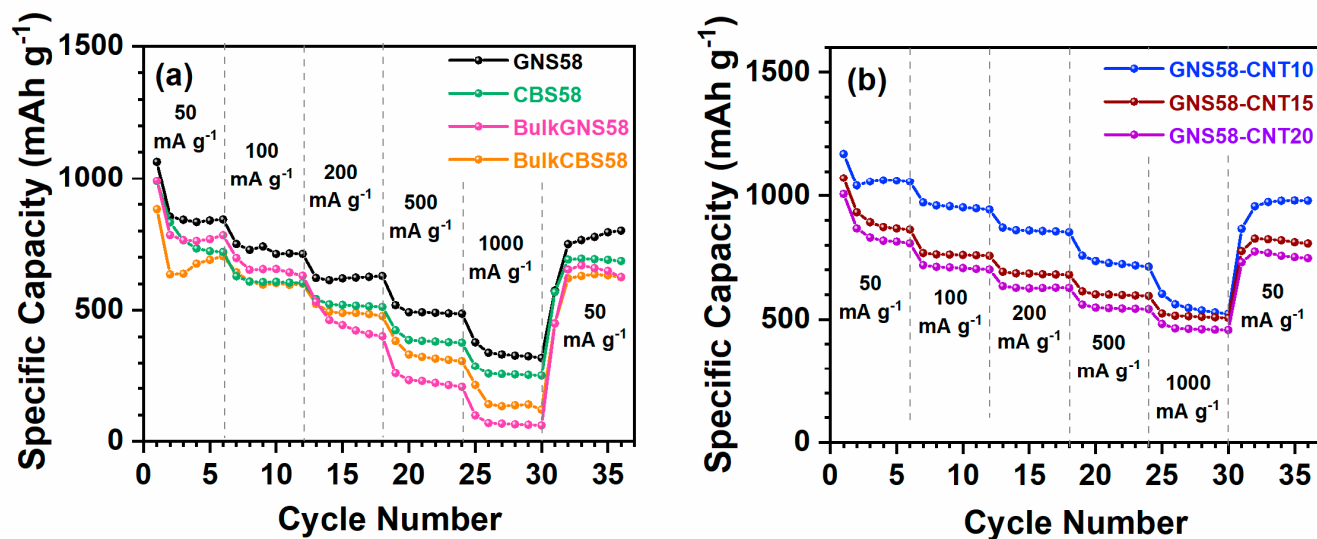


Figure S5. Galvanostatic rate performance of (a) GNS58, CBS58, BulkGNS58, BulkCBS58, and (b) GNS58-CNT10, GNS58-CNT15, GNS58-CNT20 electrodes

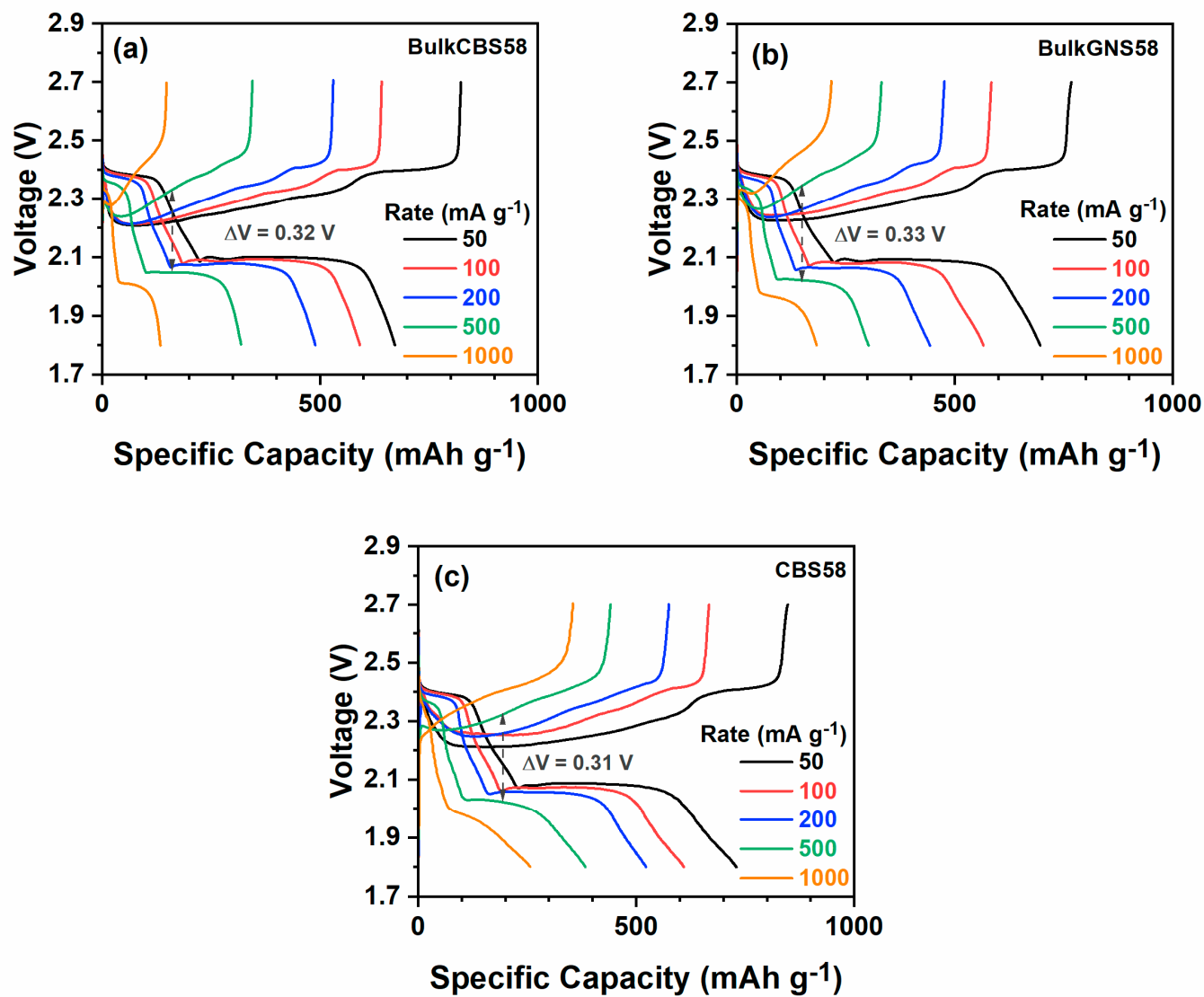


Figure S6. Galvanostatic voltage profiles at various current densities of (a) BulkCBS58, (b) BulkGNS58, and (c) CBS58 electrodes.