

Supplementary Information

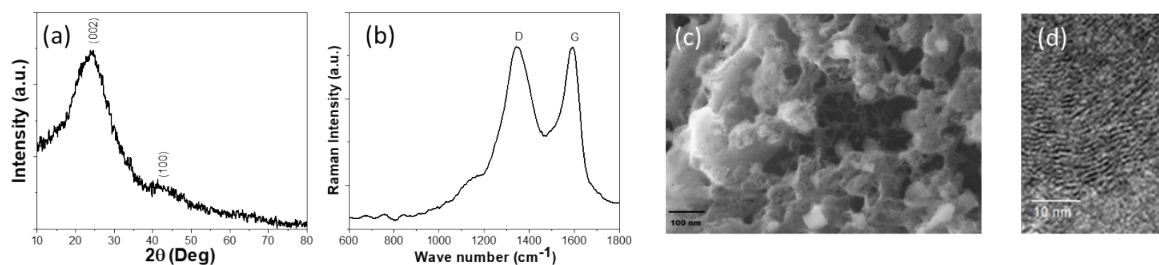


Fig. S1: (a) Powder XRD, (b) Raman spectrum, (c) SEM image and (d) TEM of carbon derived from custard apple seed.

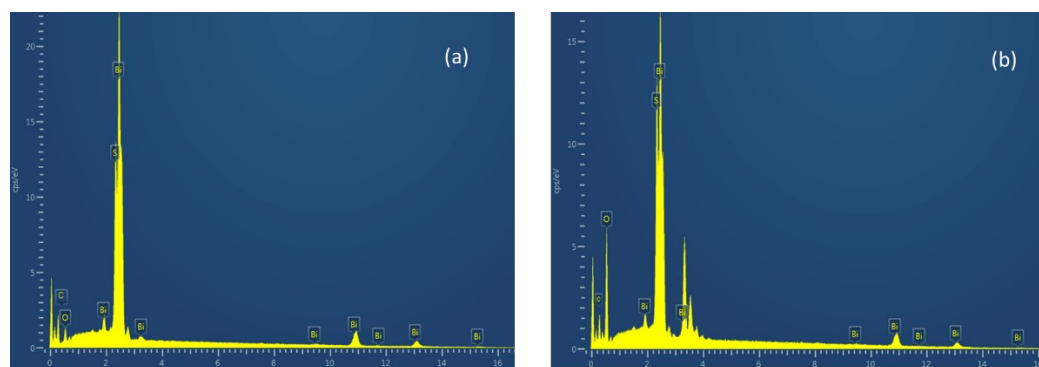


Fig. S2: EDS spectra of (a) Bi₂S₃@Bi₂O₃/C and (b) Bi₂O₃@Bi₂S₃/C.

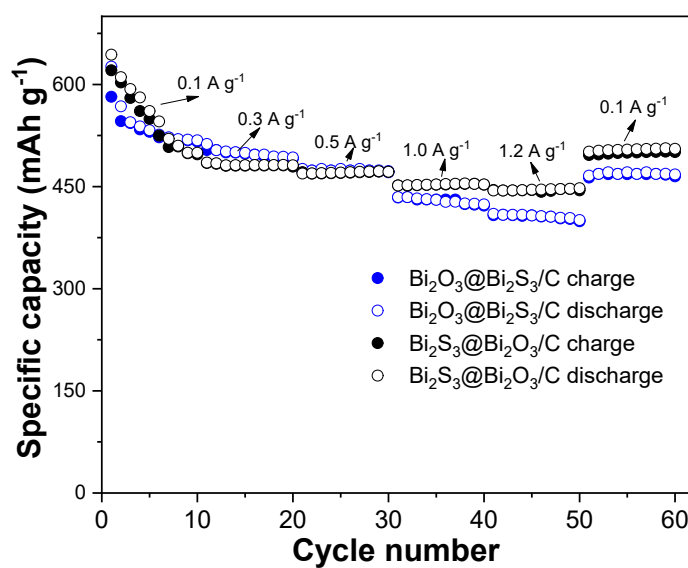


Fig. S3: Rate capability of Bi₂S₃@Bi₂O₃/C and Bi₂O₃@Bi₂S₃/C.