

Zinc Oxide Nanoring Embedded Lacey Graphene Nanoribbons in Symmetric/Asymmetric Electrochemical Capacitive Energy Storage

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SUPPORTING INFORMATION

X-ray Photoelectron Spectra of LGONR:

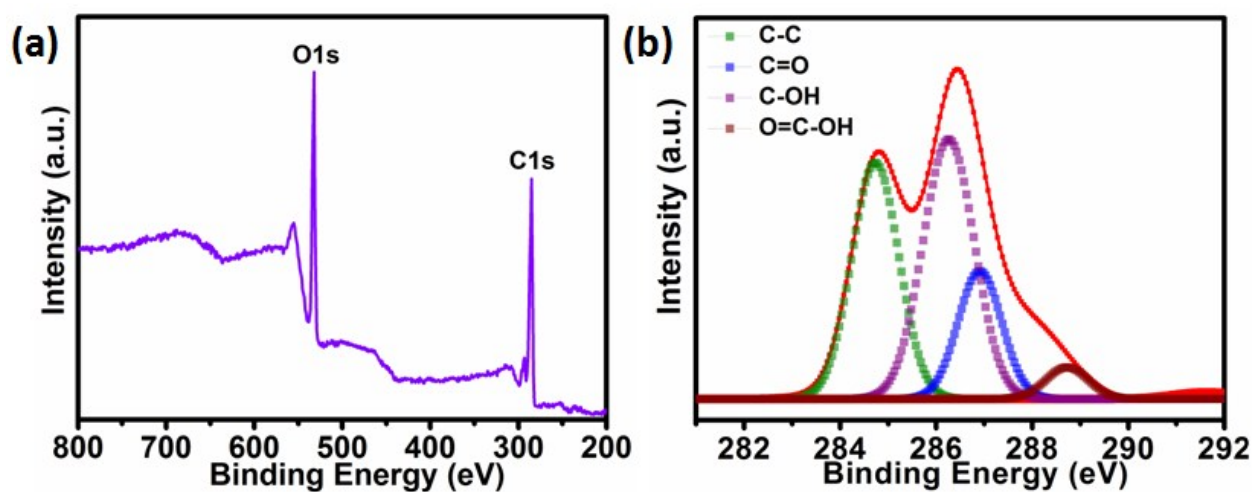


Fig. S1 (a) Surface scan spectra of LGONR, and (b) Core level (C 1s) spectra of LGONR.

Fig. S1 presents the details of XPS characterization for LGONR. In the Fig. S1(a), two prominent peaks attributed to O 1s and C 1s are observed. The ratio of Carbon:Oxygen as 1.1 is indicative of high oxidation state of lacey graphene nanoribbon. The Core level C 1s spectrum shown in Fig. S1(b) reveals peaks at 284.7 eV, 286.2 eV, 286.8 eV and 288.7 eV ascribed to the chemical functionalities C-C, C-OH, C=O and O=C-OH respectively in LGONR. The results correlate with the XRD analysis for LGONR.