

Synthesis and Characterization of porous carbon derived from activated banana peels with hierarchical porosity for improved electrochemical performance

O. Fasakin^{a,b}, J. K. Dangbegnon^b, D. Y. Momodu^b, M. J. Madito^b, K.O. Oyedotun^b,
M. A. Eleruja^a and N. Manyala^{*b}

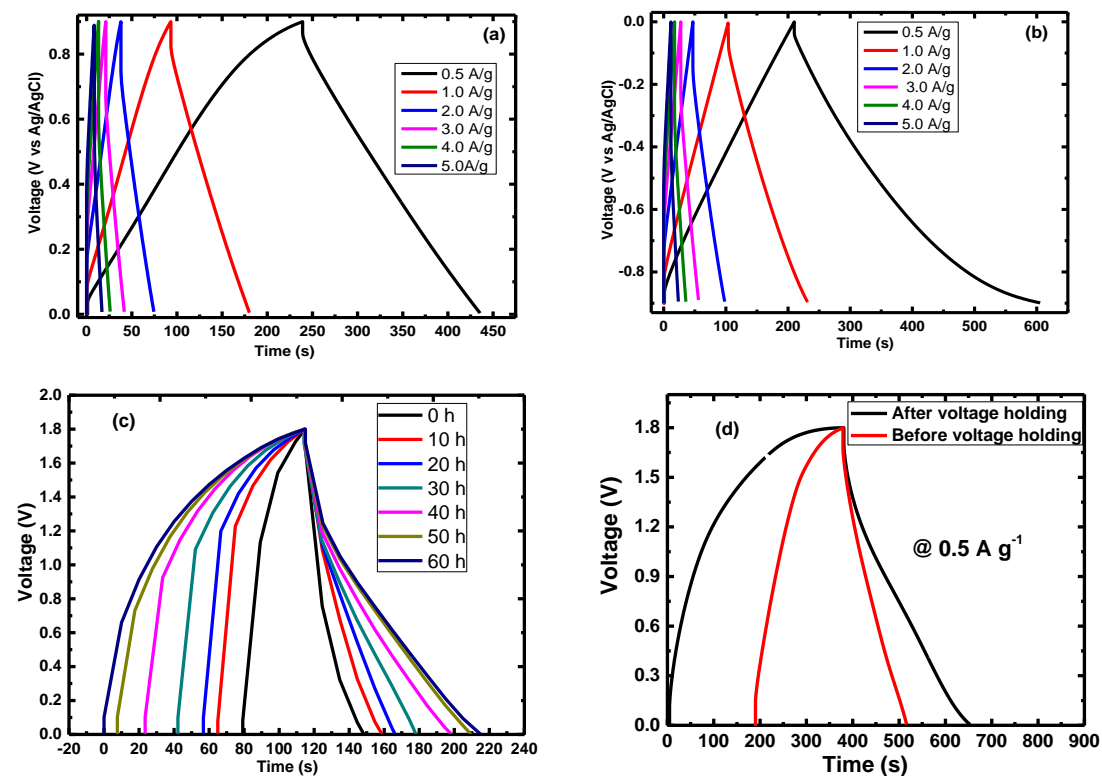
^aDepartment of Physics and Engineering Physics, Obafemi Awolowo University, Ile-Ife 220005, Nigeria

^bDepartment of Physics, Institute of Applied Materials, SARCHI Chair in Carbon Technology and Materials, University of Pretoria, Pretoria 0028, South Africa

*Corresponding author's email: Ncholu.Manyala@up.ac.za.

Tel.: +(27)12 420 3549; Fax: +(27)12 420 2516

Supporting information



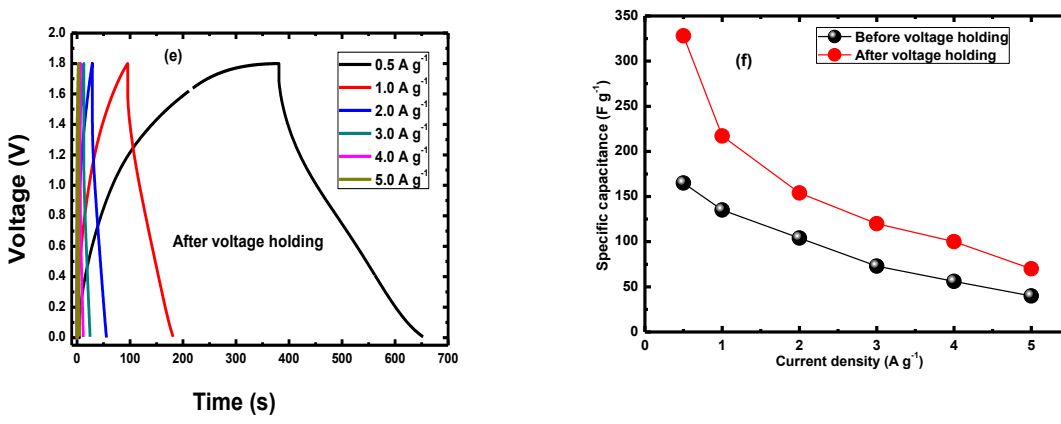


Fig. S1: (a-b) CD plots of the activated banana peel sample (ABP900) at different current densities in positive and negative potential windows, respectively, (c) Charge-discharge curve after holding voltage for every ten hours, (d) CD plot of activated banana peel sample at 0.5 A g^{-1} before and after voltage holding, (e) CD plot of activated banana peel sample at different gravimetric current densities after voltage holding and (f) Dependence of specific capacitance on gravimetric current densities before and after voltage holding.