

Supplementary Data

Manuscript Number: NJ-ART-05-2022-002401

Prolific intercalation of VO₂ (D)/polypyrrole/g-C₃N₄ as an energy storing electrode with remarkable capacitance

Monika Dhanda¹, Rajat Arora¹, Meenu Saini³, S. P. Nehra², Suman Lata^{1*}

¹Department of Chemistry, Deenbandhu Chhotu Ram University of Science and Technology, Murthal-131039, Haryana, India

²Centre of Excellence for Energy and Environmental studies, Deenbandhu Chhotu Ram University of Science and Technology, Murthal-131039, Haryana, India

³Department of Material Science and Nanotechnology, Deenbandhu Chhotu Ram University of Science and Technology, Murthal-131039, Haryana, India

*Corresponding Author Email: sumanjakhar.chem@dcrustm.org

Orcid iD: <http://orcid.org/0000-0002-9496-1173>

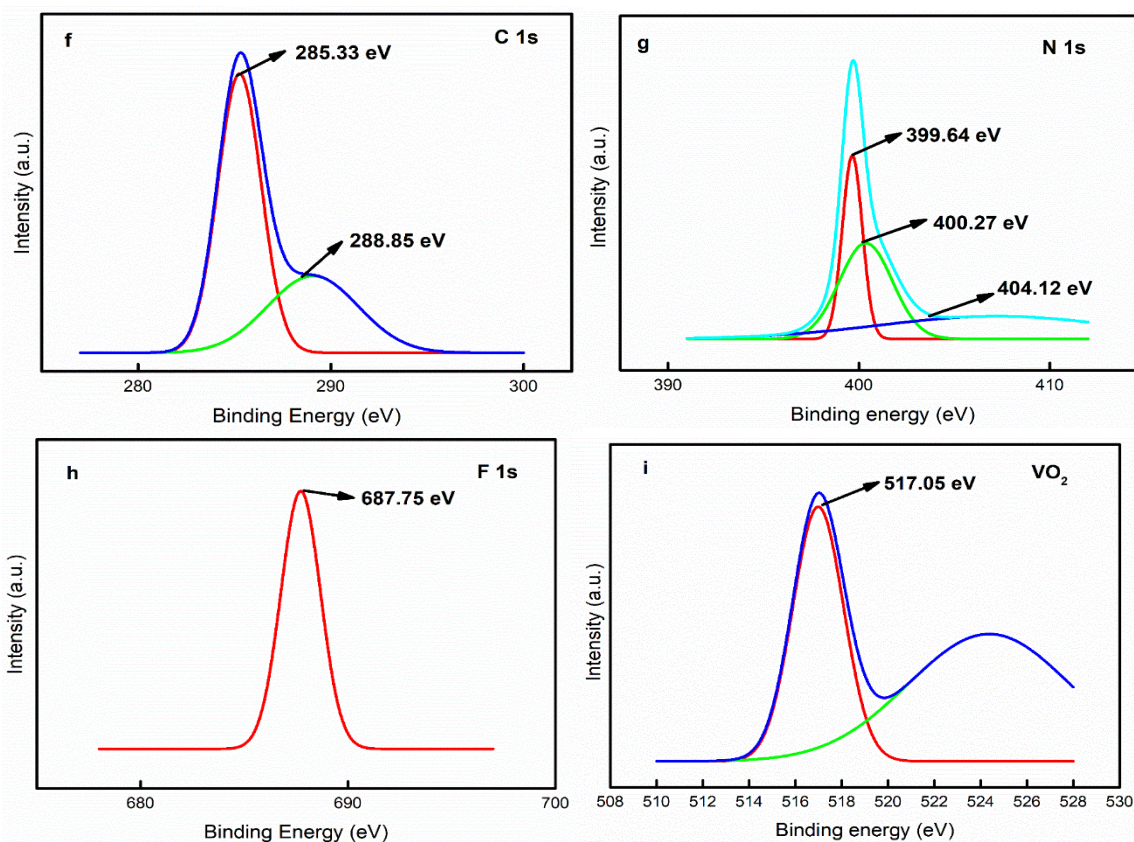


Fig. S1.(f), (g), (h), (i) The XPS spectrum of electrode PGV0.3 after exploring its electrochemical application.

Fig.S2. (a) CV curves of PGV0.1, PGV0.2, PGV0.3, PGV0.4 in two electrode system; (b) CV curves of PGV0.3 at different mV/s in two electrode system; (c) GCD of PPY, VO₂ (D), PG, PGV0.1, PGV0.2, PGV0.3, PGV0.4 in two electrode system; (d) GCD of PGV0.3 at the various current density; (e) Ragone plot of PGV0.3 in two electrode system.

