## Facile Synthesis of Ternary Mxene Nanocomposites as an Electrode for Supercapacitive Application

Rutuja A. Chavan<sup>1</sup>, Desta.M. Uliss<sup>1</sup>, Akash S. Rasal<sup>2</sup>, Jia-Yaw Chang<sup>2</sup>, and Anil Vithal Ghule<sup>1</sup>\*

<sup>1</sup>Green Nanotechnology Laboratory, Department of Chemistry, Shivaji University, Kolhapur 416004,

Maharashtra, India.

<sup>2</sup>Department of Chemical Engineering National Taiwan University of Science And Technology, Taipei

106335, Taiwan

Corresponding author: Prof. Anil V. Ghule (<u>avg\_chem@unishivaji.ac.in</u>)

## **Supporting Information**

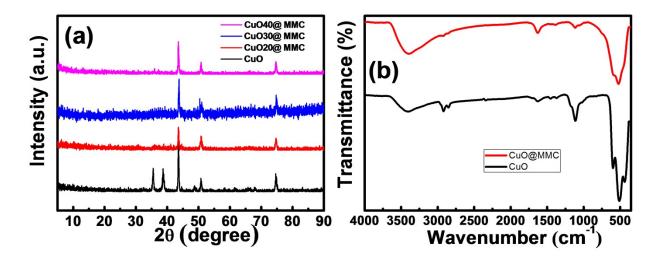


Fig. S1 (a) XRD spectra of CuO, CuO20@MMC, CuO30@MMC, and CuO40@MMC b) FTIR spectra of CuO and CuO20@MMC.

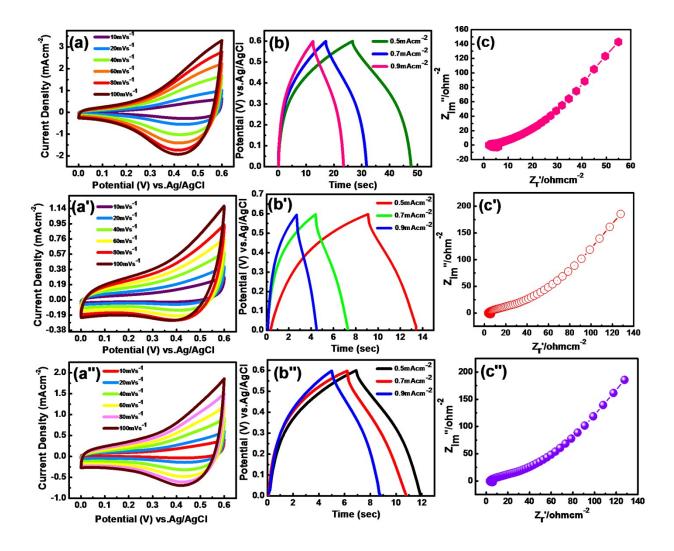


Fig. S2 CVs (a, a' and a''), GCDs (b, b' and b'') and EISs (c, c' and c'') of CuO20@FSSM, CuO30@FSSM, and CuO40@FSSM, respectively.

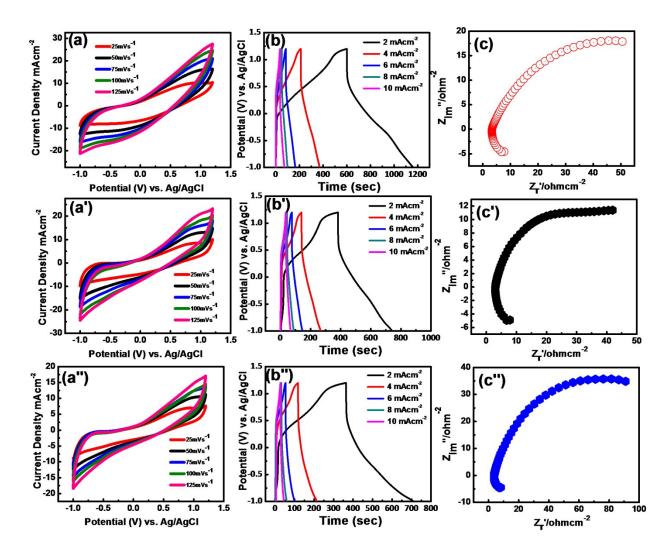


Fig. S3 CV (a, a' and a''), GCD (b, b' and b''), and EIS (c, c' and c'') of CuO20@MMC, CuO30@MMC, and CuO40@MMC, respectively.

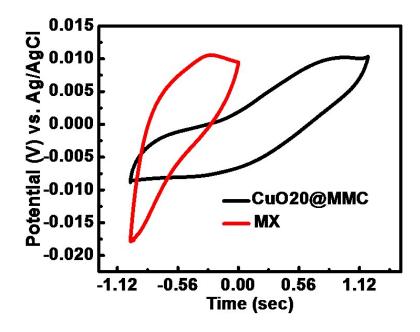


Fig. S4 CV of positive (CuO20@MMC) and negative (MX) electrodes.

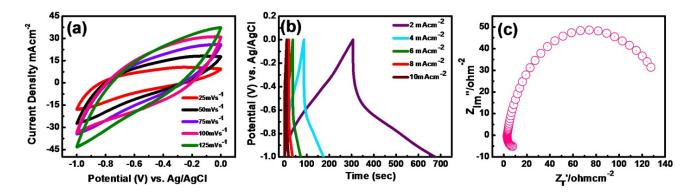


Fig. S5 CV, GCD and EIS of counter electrode MXene.