Supplementary material

Controlling the Nanoscale Morphology and Structure of the ZnO/MnO_2 System for Efficient Transparent Supercapacitor Electrodes

M. A. Borysiewicz[1,*], M. Wzorek[1], M. Ekielski[1], J. Kaczmarski[1] and T. Wojciechowski[2]

[1] Institute of Electron Technology, al. Lotników 32/46, 02-668 Warsaw, Poland

[2] Institute of Physics, Polish Academy of Sciences, al. Lotników 32/46, 02-668 Warsaw, Poland

* corresponding author

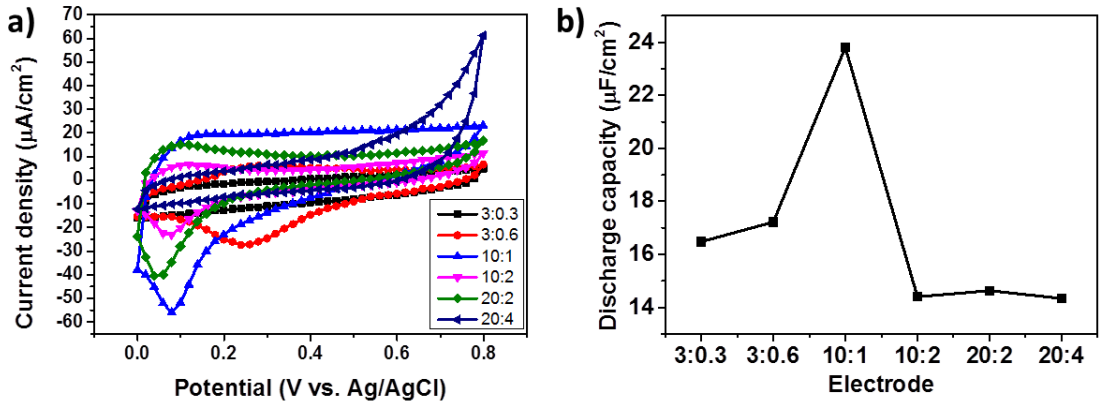

Figure S1. Electrochemical performance of single electrodes.

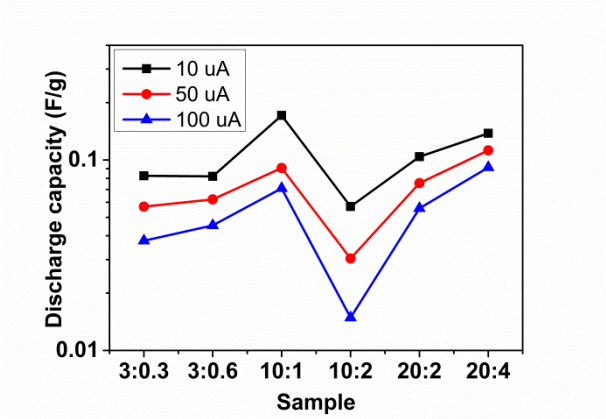

Figure S2. Gravimetric capacitances of the devices for three discharge currents.

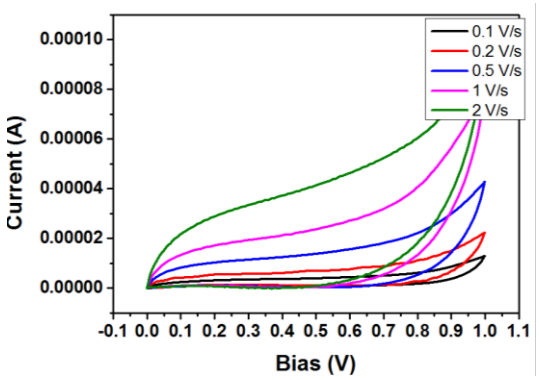

Figure S3. Cyclic voltammetry curves for different voltage sweep rates for the 3:0.3 sample.

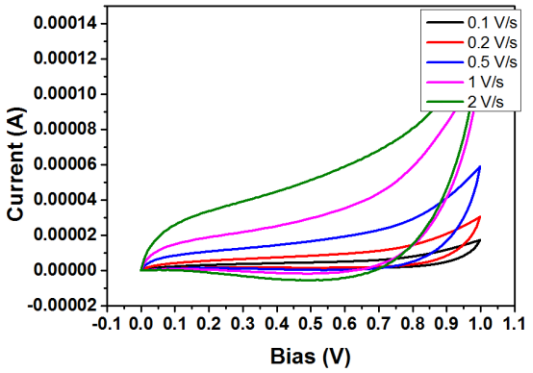

Figure S4. Cyclic voltammetry curves for different voltage sweep rates for the 3:0.6 sample.

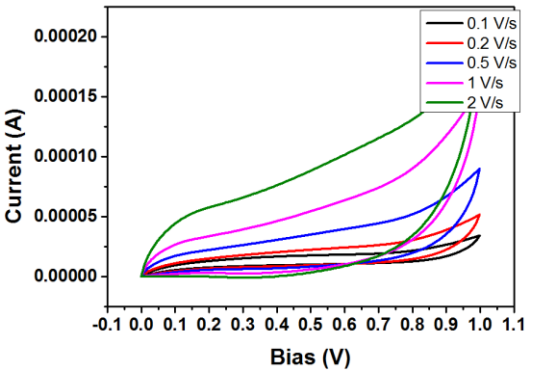

Figure S5. Cyclic voltammetry curves for different voltage sweep rates for the 10:1 sample.

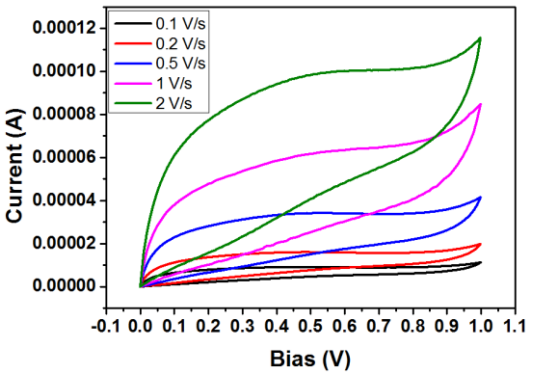

Figure S6. Cyclic voltammetry curves for different voltage sweep rates for the 10:2 sample.

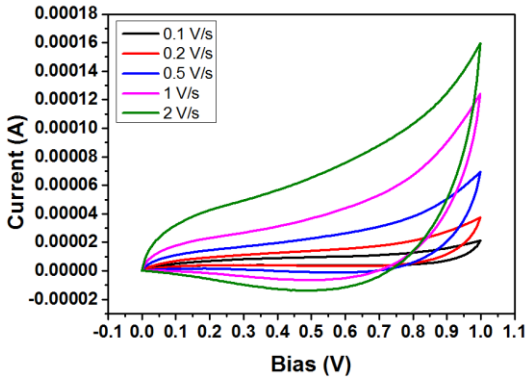

Figure S7. Cyclic voltammetry curves for different voltage sweep rates for the 20:2 sample.

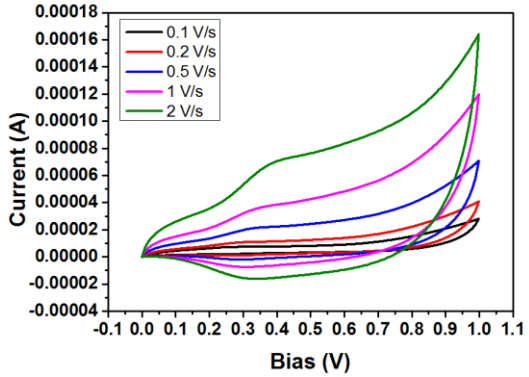

Figure S8. Cyclic voltammetry curves for different voltage sweep rates for the 20:4 sample.

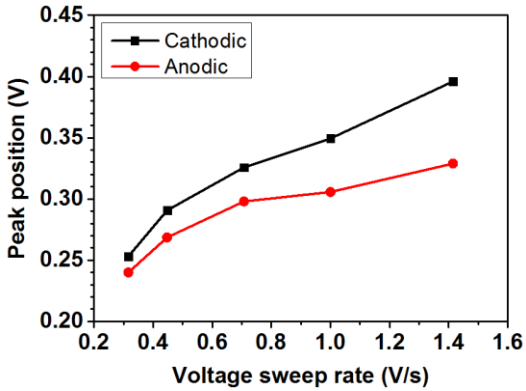

Figure S9. The voltage positions of the cathodic and anodic redox current peaks for the 20:4 sample as a function of the voltage sweep rate.

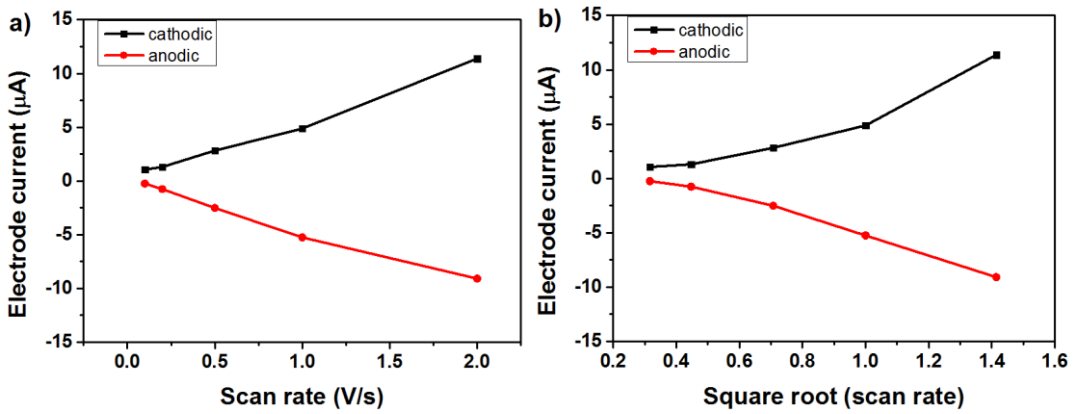

Figure S10. The redox peak current intensities for the 20:4 sample as a function of a) voltage sweep rate and b) the square root of the voltage sweep rate.

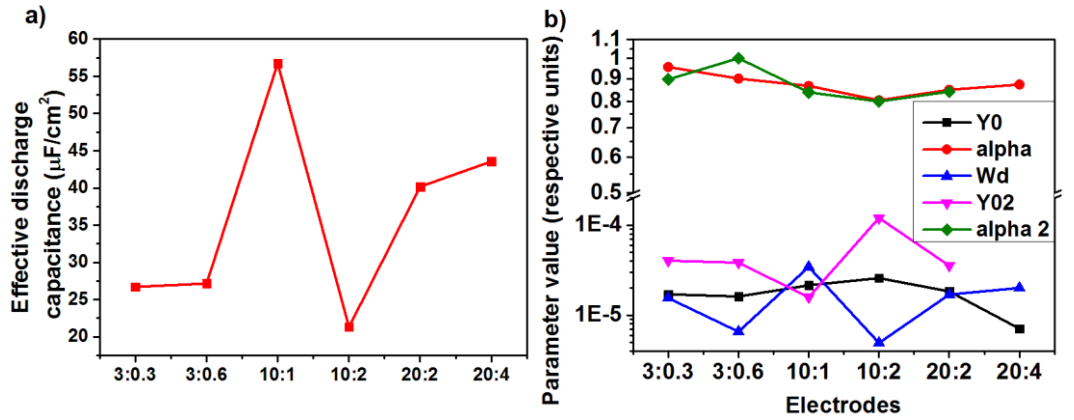

Figure S11. Comparison of the capacitance values of the devices a), with selected EIS model fit parameters b).