Figure A.1. Nitrogen adsorption isotherms for GMC, OGMC, 15 wt% MnO₂/C, and 35% MnO₂/C.
Figure A.2. Phase angle dependence on frequency based on Nyquist plots from Figure 8. At low frequencies, the phase angle is ~88°, suggesting purely capacitive behavior.
Figure A.3. Linear dependence of (a) $C_{\text{MnO}_2}$ with $\nu^{-1/2}$ and (b) $(C_{\text{MnO}_2})^{-1}$ with $\nu^{1/2}$ to determine the surface contribution to pseudocapacitance compared to the total capacitance.
Figure A.4. (a) Linear dependence of current with $v$ and (b) nonlinear behavior of current with $v^{1/2}$ indicating that the capacitance is based on a surface mechanism and is not diffusion limited.