

Supplementary Information

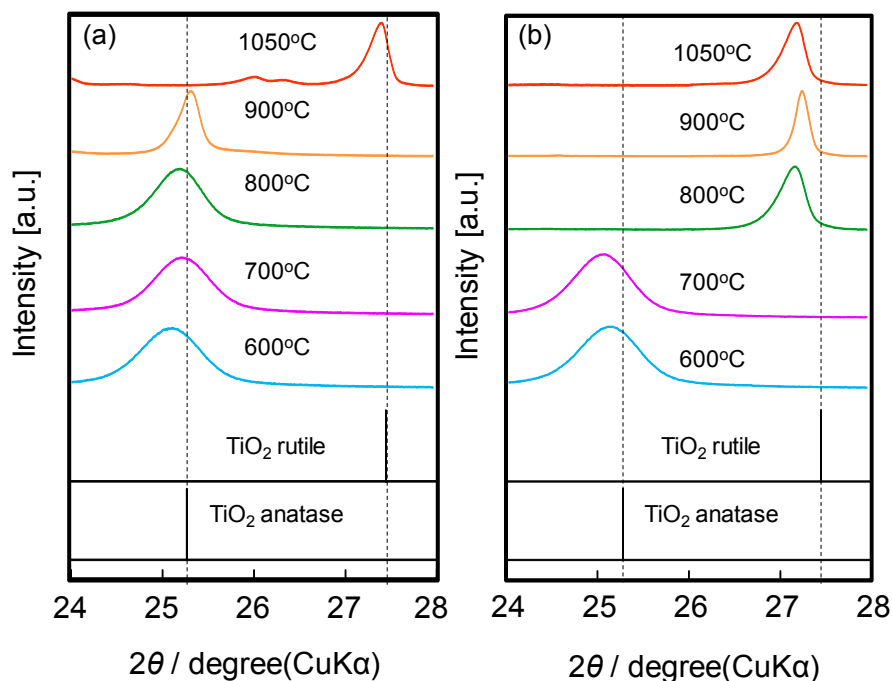


Figure S1. Narrow XRD patterns of titanium-niobium oxides prepared at 600, 700, 800, 900, and 1050 °C in (a) air and (b) Ar containing 4% H₂.

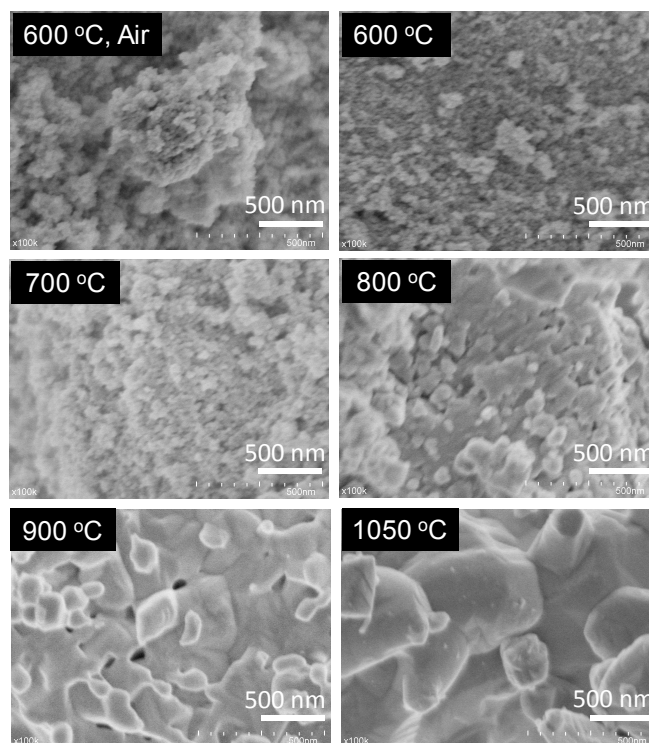


Figure S2. SEM images of the titanium-niobium oxides prepared at 600 °C in air, and 600, 700, 800, 900, and 1050 °C in Ar containing 4% H₂.

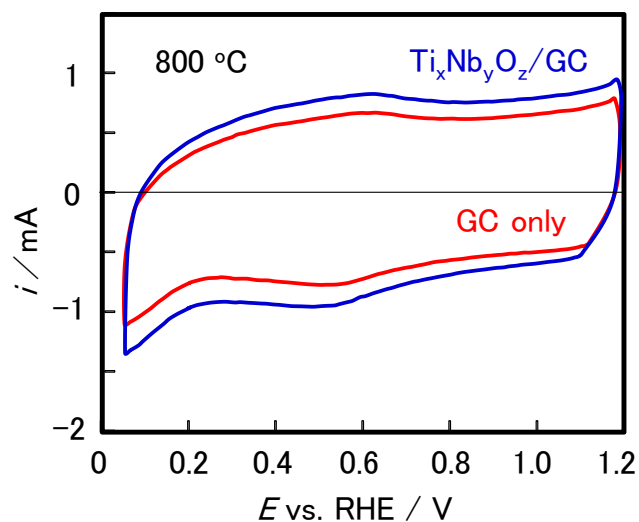


Figure S3. Cyclic voltammograms of the GC rod only and of titanium-niobium oxide supported on GC rod ($\text{Ti}_x\text{Nb}_y\text{O}_z/\text{GC}$) heat-treated at 800 °C under reductive atmosphere.

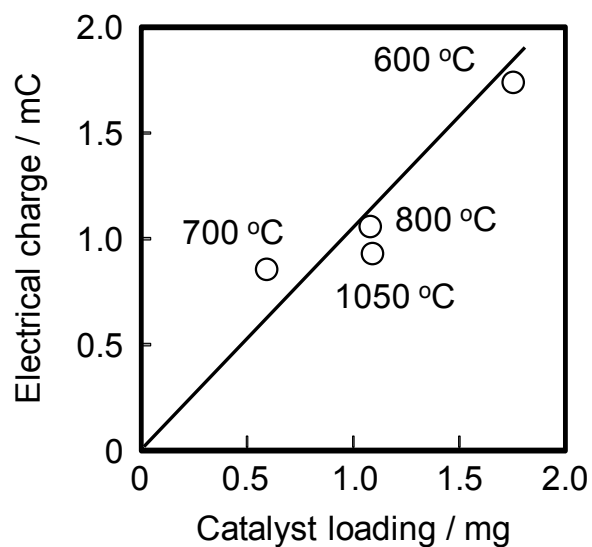


Figure S4. Dependence of the electrical charge of the double layer of the oxides on the catalyst loading.