

## Supplementary Information

# Scaling-up of the process of titanium dioxide nanotubes synthesis and its effect on photoelectrochemical properties

Mariusz Szkoda <sup>1,2\*</sup>, Konrad Trzciński <sup>1</sup>, Zuzanna Zarach <sup>1</sup>, Daria Roda <sup>1</sup>, Marcin Łapiński <sup>2,3</sup> and Andrzej P. Nowak <sup>1</sup>

<sup>1</sup> Faculty of Chemistry, Department of Chemistry and Technology of Functional Materials, Gdańsk University of Technology, Narutowicza 11/12, 80-233, Gdańsk, Poland

<sup>2</sup> Advanced Materials Center, Gdańsk University of Technology, ul. Narutowicza 11/12, 80-233, Gdańsk, Poland

<sup>3</sup> Advanced Materials Center, Gdańsk University of Technology, ul. Narutowicza 11/12, 80-233, Gdańsk, Poland

\* Correspondence: mariusz-szkoda1@pg.edu.pl; Tel.: +48 58 348 64 34 (MS)

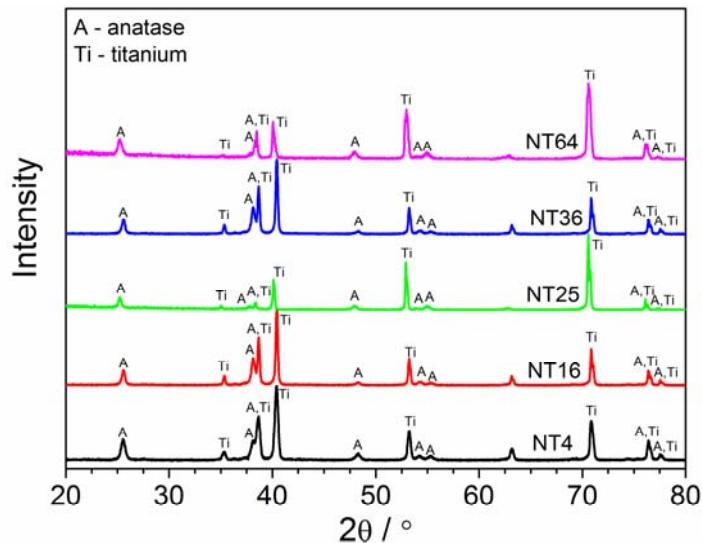


Figure S1. Comparison of XRD patterns of  $\text{TiO}_2$  samples.

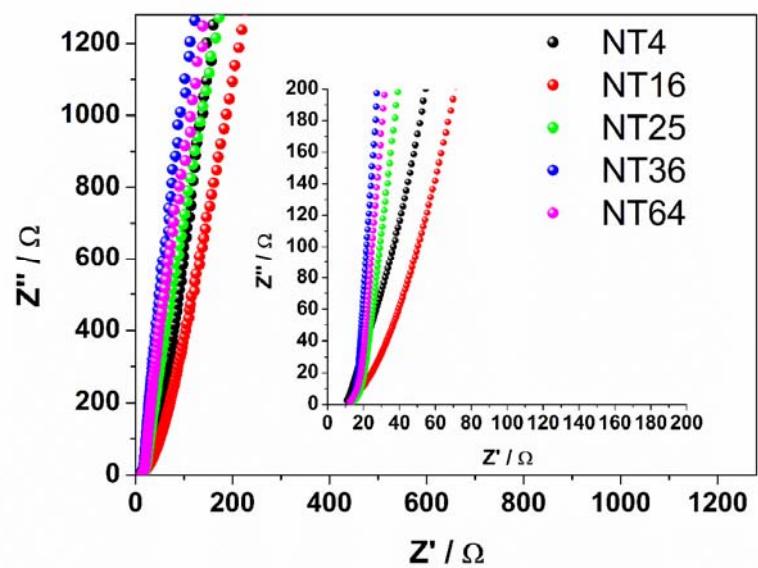


Figure. S2. EIS spectra of the analyzed samples, performed in 0.2M  $\text{K}_2\text{SO}_4$ .

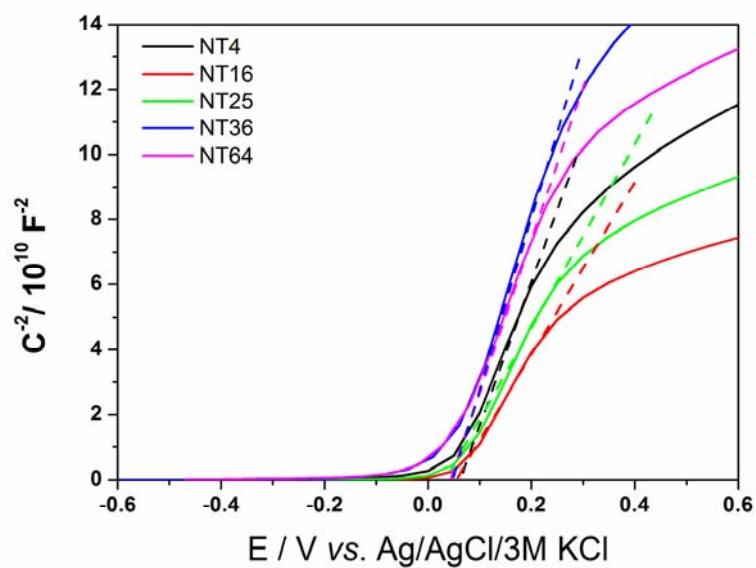


Figure. S3. The Mott-Schottky plot for obtained electrodes.