

Supporting information

Facile Conversion of Electrospun TiO_2 into Titanium Nitride/Oxynitride Fibers

Marketa Zukalova^{1*}, Jan Prochazka¹, Zdenek Bastl¹, Jiri Duchoslav², Lukas Rubacek², David Havlicek³ and Ladislav Kavan^{1*}

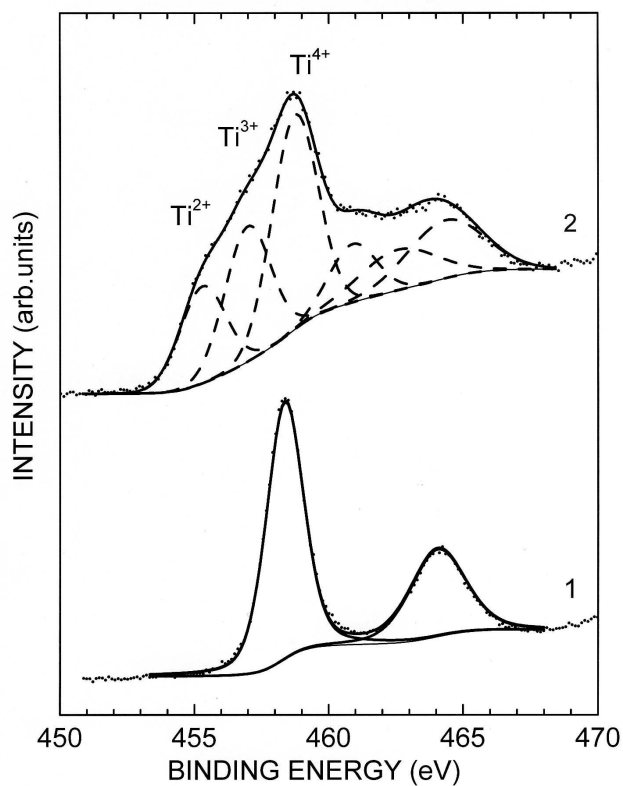


Figure S1. A control experiment with pure TiO_2 (anatase) precursor [curve 1] demonstrating that the originally single line of $\text{Ti}2\text{p}_{3/2}$ electrons, characteristic for Ti^{4+} , splits into three components belonging to Ti^{4+} , Ti^{3+} , Ti^{2+} oxidation states after the Ar^+ bombardment [curve 2].

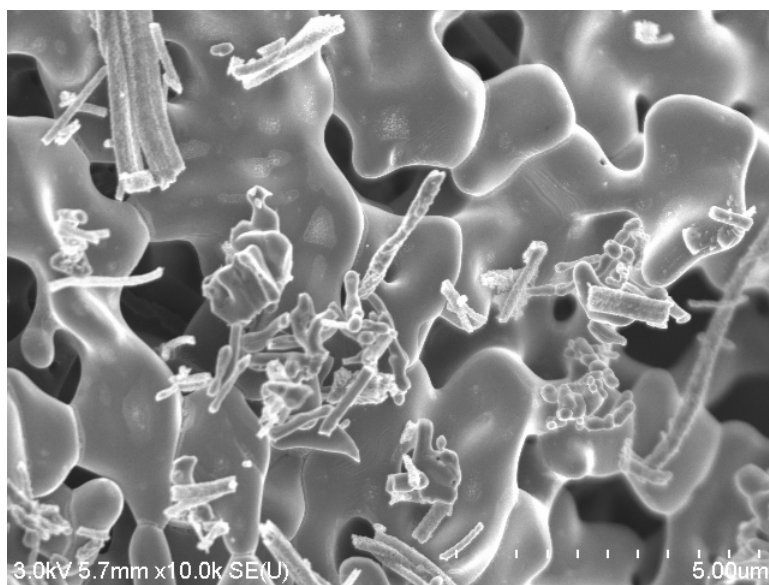


Figure S2. Scanning electron microscopy image of a material prepared by heat treatment of TiO_xN_y fibers in pure oxygen at 400°C . Picture size $12.5 \times 9.5 \mu\text{m}^2$.