Supplementary Material for

Surface Modification of Nanocrystalline TiO_2 Materials with Sulfonated Porphyrins for Visible Light Antimicrobial Therapy

Adam Sułek[1], Barbara Pucelik[1,2], Marcin Kobielusz[1], Przemysław Łabuz[1], Grzegorz Dubin[2] and Janusz M. Dąbrowski[1*]

[1] Faculty of Chemistry, Jagiellonian University, Gronostajowa 2, 30-387 Krakow, Poland
[2]Malopolska Centre of Biotechnology, Jagiellonian University, Gronostajowa 7A, 30-387 Krakow, Poland
*Corresponding author. Tel.: +48-12-686-2488; fax: +48-12-686-2750, e-mail address: jdabrows@chemia.uj.edu.pl

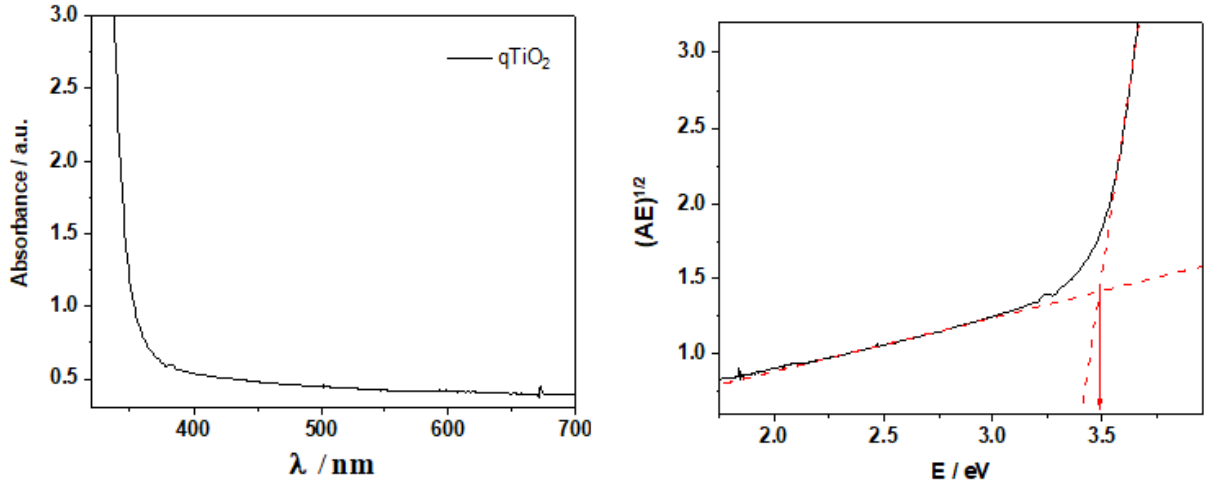

Figure S1. Absorption spectra of $qTiO_2$ and the calculation of the band gaps based on the Tauc plot with baseline correction.

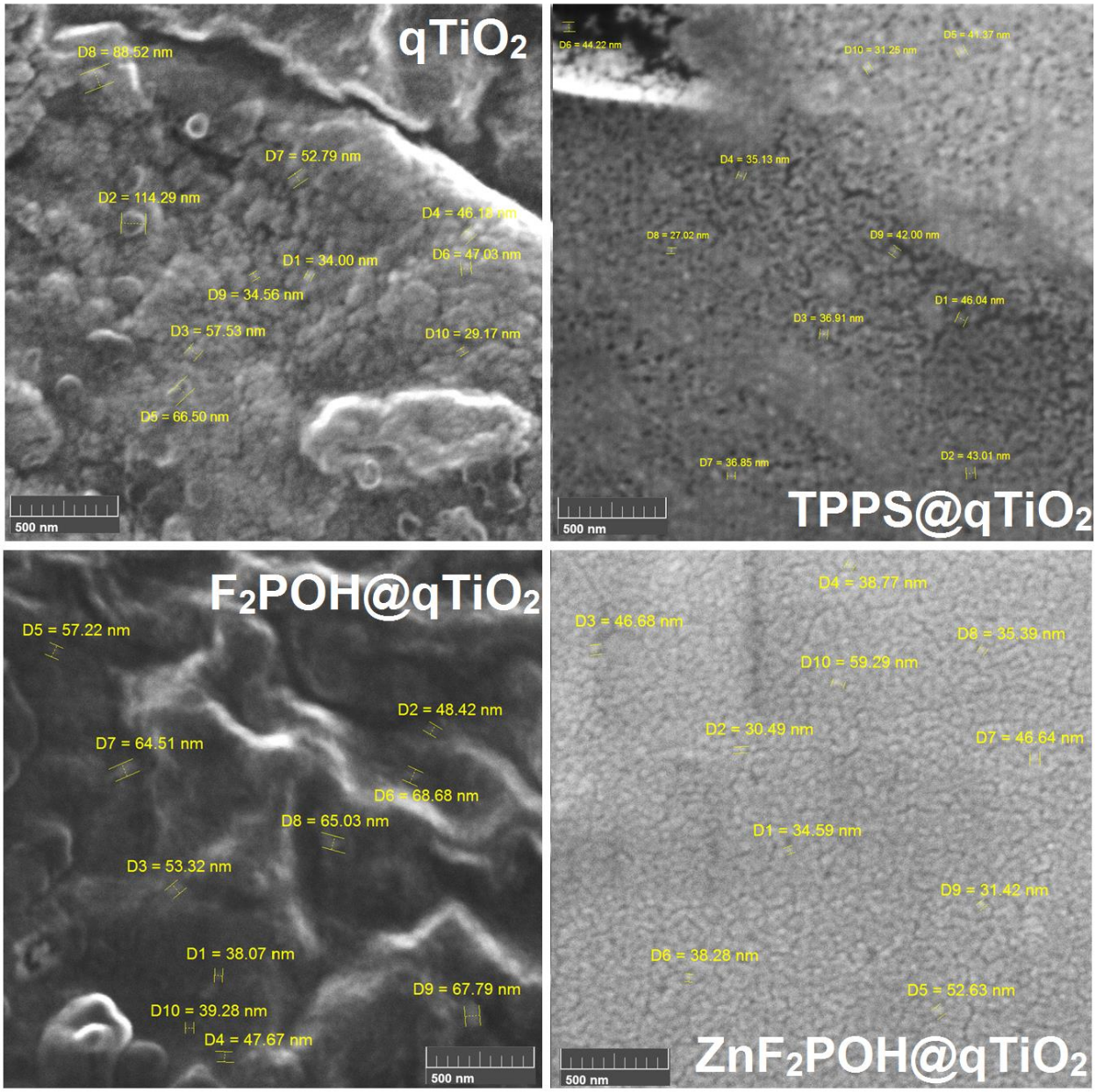

Figure S2. SEM images of nanostructured $qTiO_2$, TPPS@$qTiO_2$, F_2POH@$qTiO_2$ and Zn F_2POH@TiO_2 recorded on carbon tape with size of particle highlighted.

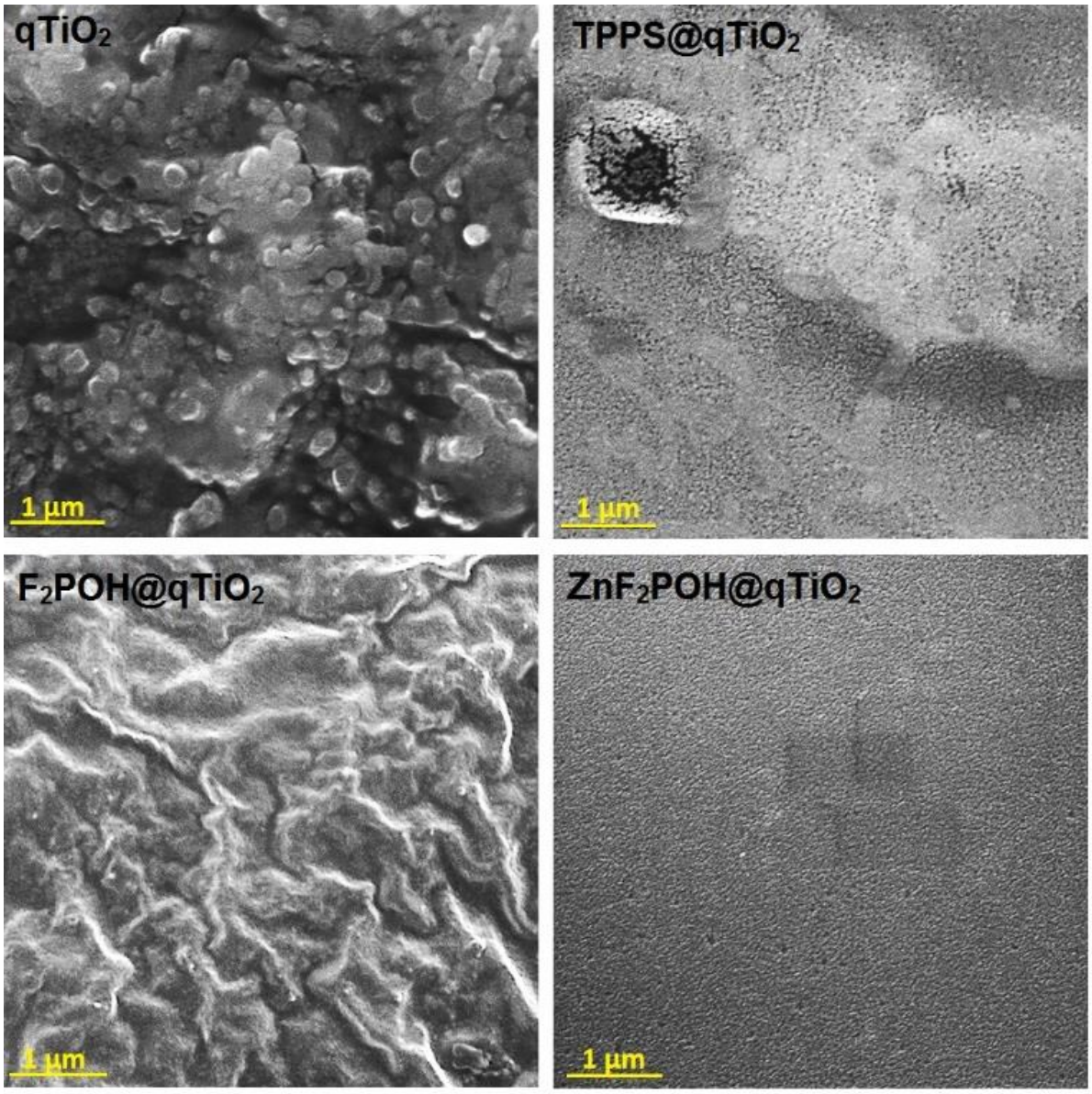

Figure S3. SEM images of nanostructured $qTiO_2$, TPPS@$qTiO_2$, F_2POH@$qTiO_2$ and Zn F_2POH@TiO_2 recorded on carbon tape with size of particle highlighted.

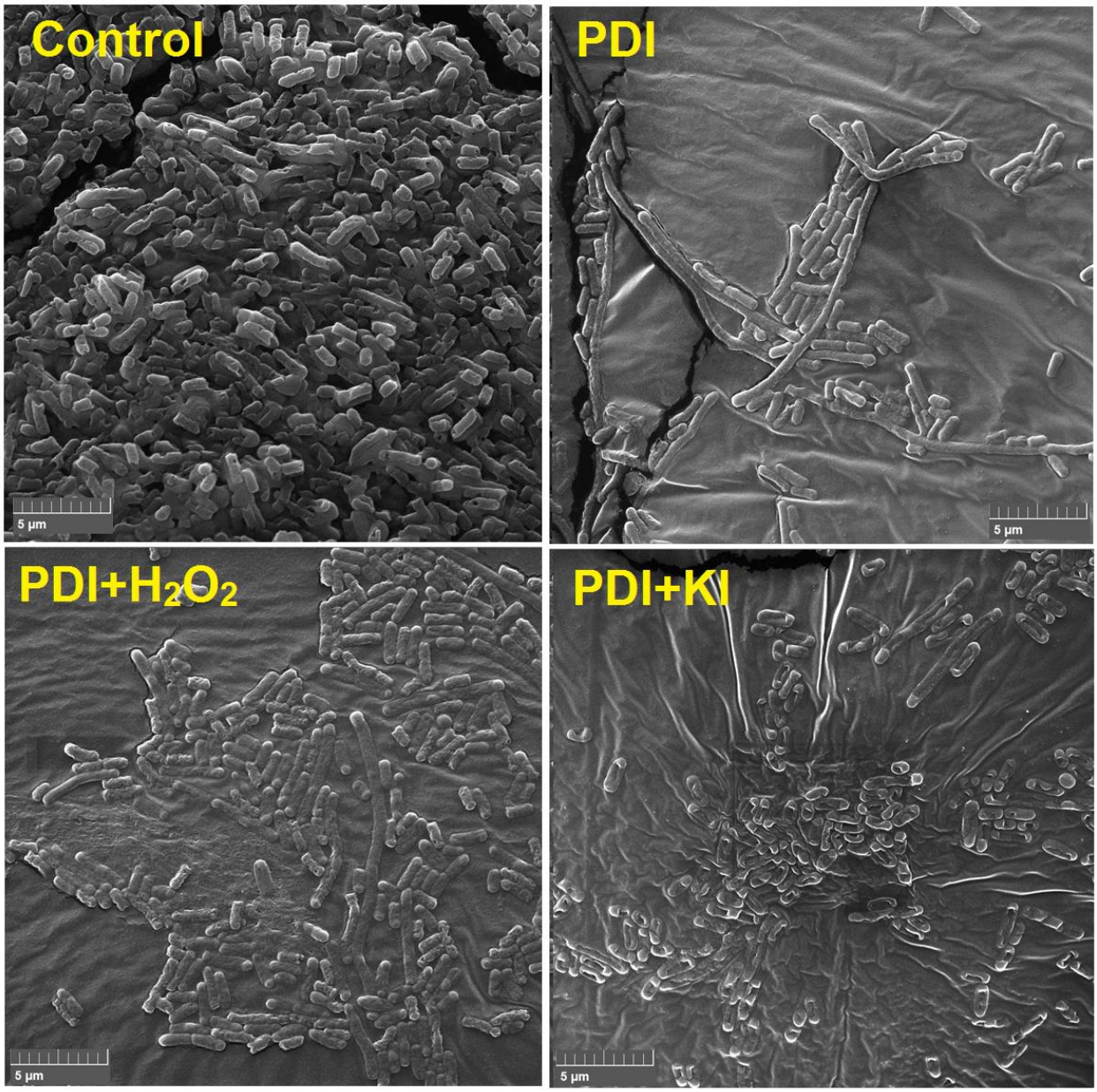

Figure S4. SEM images of *Escherichia coli* before PDI treatment (control) and bacterial cells debris after different PDI procedures.

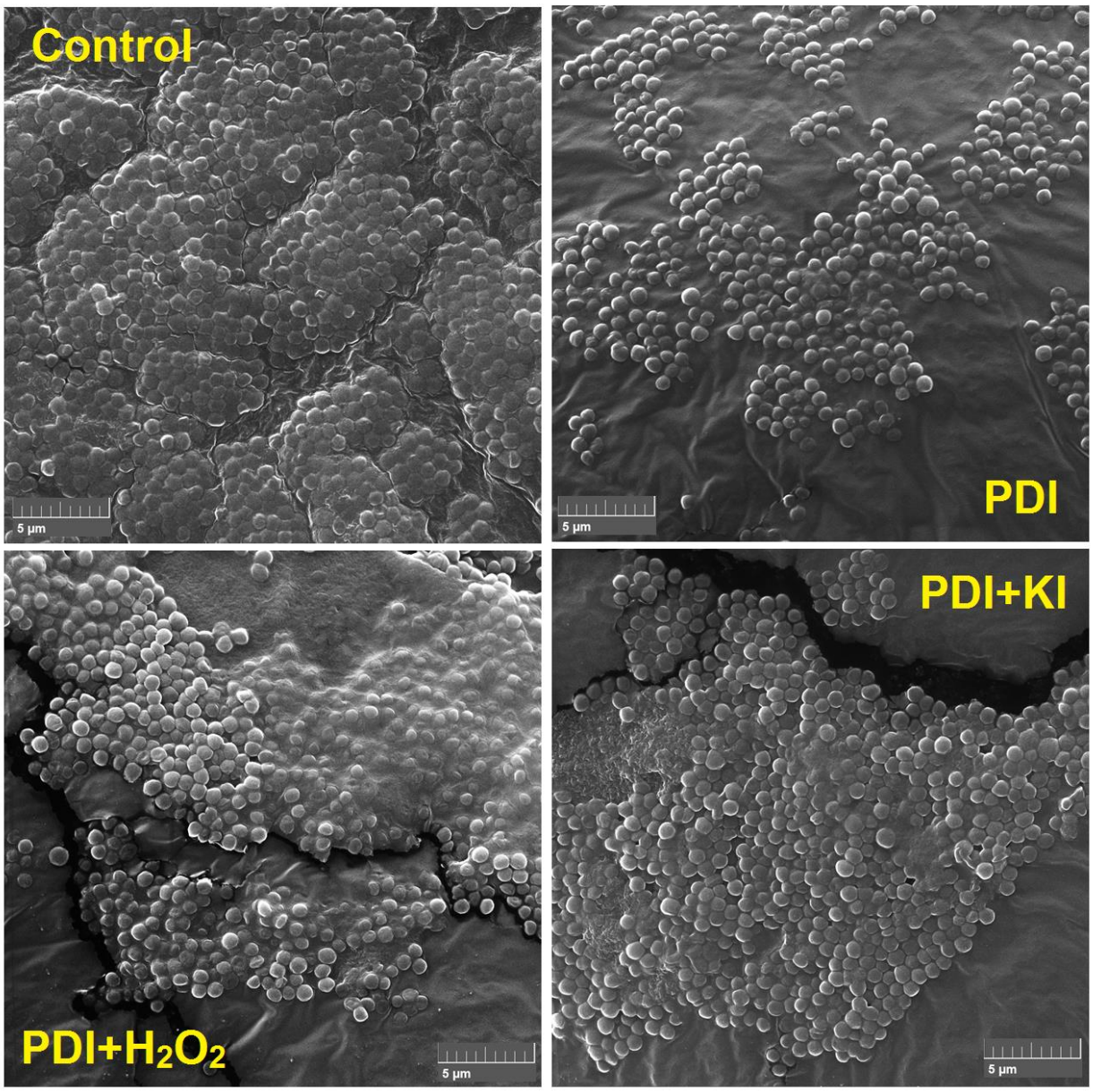

Figure S5. SEM images of*Staphylococcus aureus* before PDI treatment (control) and bacterial cells debris after different PDI procedures.