Enhanced photocatalytic and antibacterial activity of plasma reduced silver nanoparticles

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![UV-Vis absorbance spectra of TiO\textsubscript{2} and 1 wt\% Ag-TiO\textsubscript{2}](image)

Fig. S1. UV-Vis absorbance spectra of TiO\textsubscript{2} and 1 wt\% Ag-TiO\textsubscript{2}
Fig. S2. X-Ray diffraction patterns of the TiO$_2$ and Ag loaded TiO$_2$ (0.5-2 wt%).

Fig. S3. ROS (•OH) identification with various AgNPs (S1, S2 and S3).
Fig. S4. Bacterial inactivation with Ag$^+$ ions and AgNPs.

![Graph showing bacterial inactivation over time with different silver concentrations.](image_url)
Fig. S5. A plausible mechanism of CV degradation