

# Enhancement in the rate of nitrate degradation on Au- and Ag-decorated TiO<sub>2</sub> photocatalysts

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Photocatalyst	Period after agitation (min)	Average aggregate diameter (nm)
P25 TiO <sub>2</sub>	0	6008
	120	3451
0.3%Au/TiO <sub>2</sub>	0	3813
	120	1021

Table S1: Dynamic light scattering (DLS) analysis of a suspension of 10 mg catalyst in 10 ml H<sub>2</sub>O.

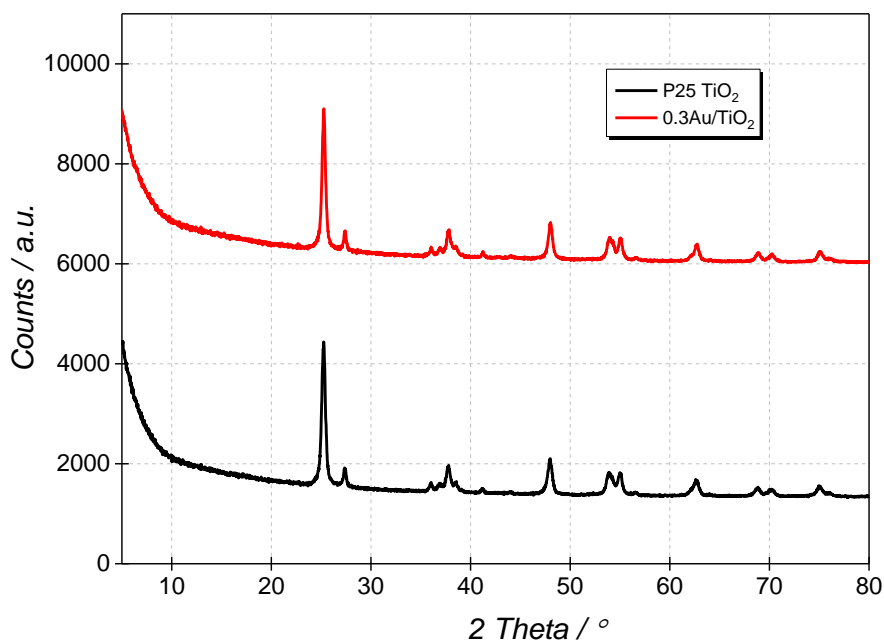


Fig. S1: *Ex situ* XRD patterns of the P25 TiO<sub>2</sub> support material (black line) and 1%Au/TiO<sub>2</sub> photocatalyst (red line).

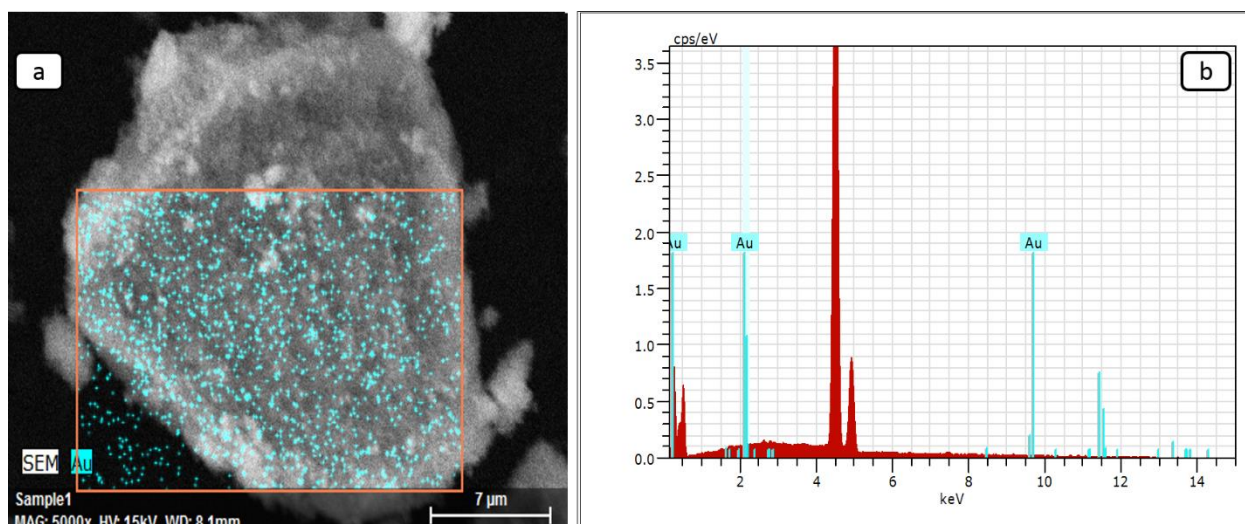


Fig. S2: (a) SEM-EDX elemental mapping and (b) the corresponding EDX spectrum of the 1%Au/TiO<sub>2</sub> catalyst.

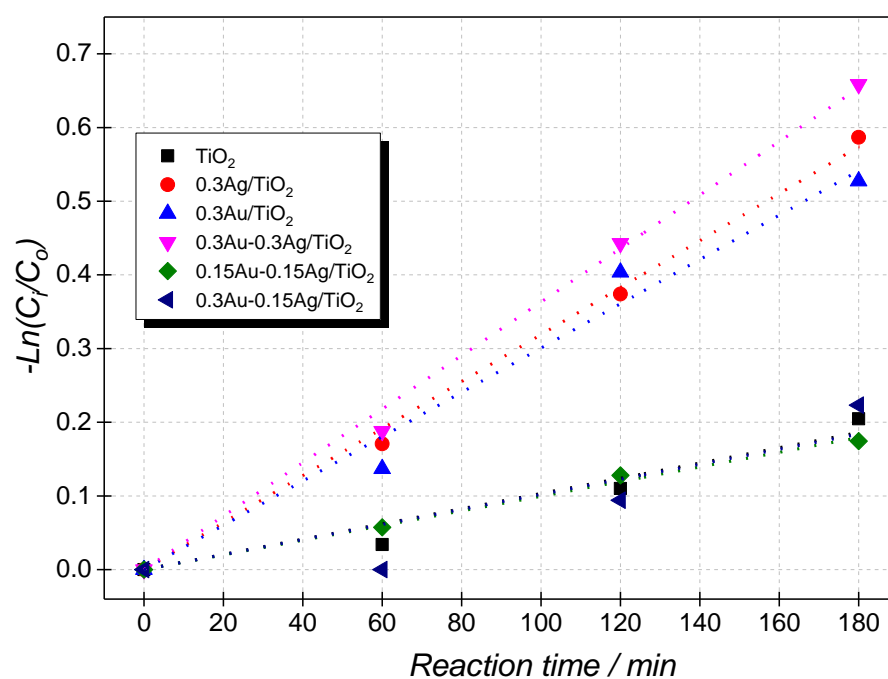


Fig. S3: Pseudo first order kinetics plot for the photocatalytic nitrate degradation on mono- and bimetallic samples.