An efficient visible light photocatalyst based tin porphyrin intercalated between TiO$_2$-graphene nanosheets for inactivation of *E. coli* and investigation of charge transfer mechanism

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SEM analysis

The structured morphology of the TiO$_2$, TG (3%), and TGSP photocatalysts are shown in Fig. 1. It is clear that the graphene sheets were packed densely by TiO$_2$ nanoparticles with the average sizes of 38 nm. As it can be seen in the SEM image of the TG nanocomposite, significant aggregation of the TiO$_2$ nanoparticles is observed in the TG nanocomposite.
Fig. 1. SEM images of a) TiO$_2$, b) TG (3%), and c) TGSP