Fig.S1

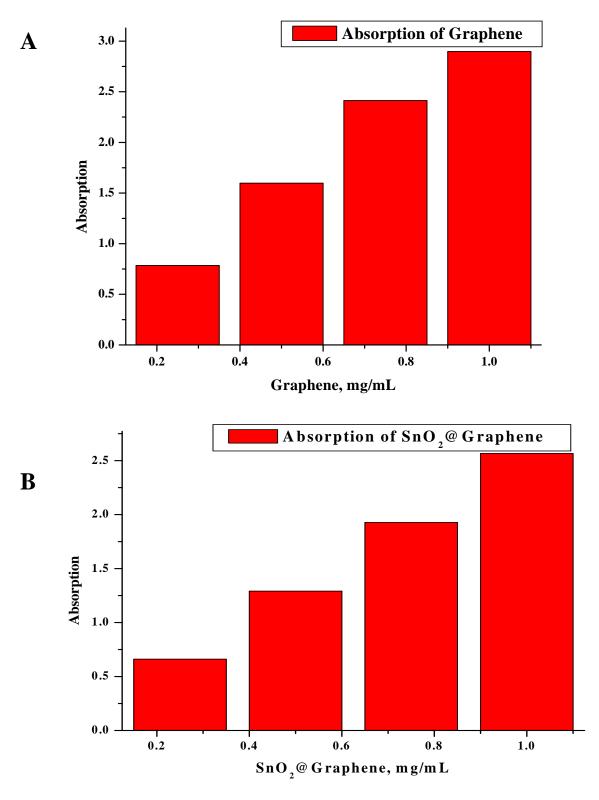


Figure.S1. Absorption of (A) graphene and (B) SnO₂@Graphene with different concentrations.

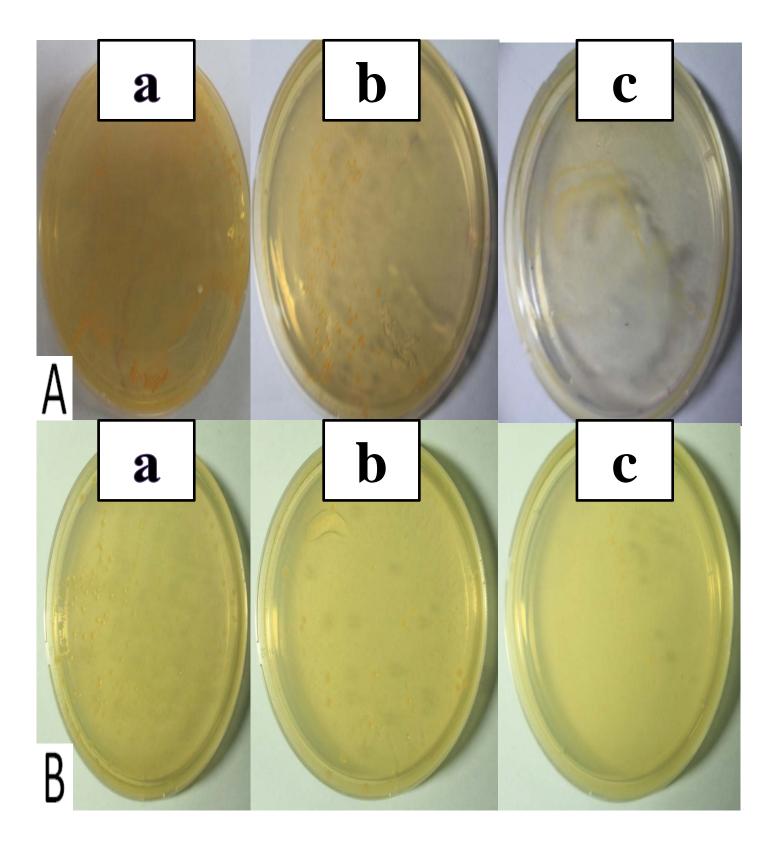


Figure.S2. Photos showing samples of bacteria growth plated after 24 h of incubation with or without the nanoparticles:(A) S. aureus and (B) P.aeruginosa, (a) in a water solution, (b) graphene solution ,and (c) a solution containing SnO2@Graphene nanoparticles.

Fig.S3

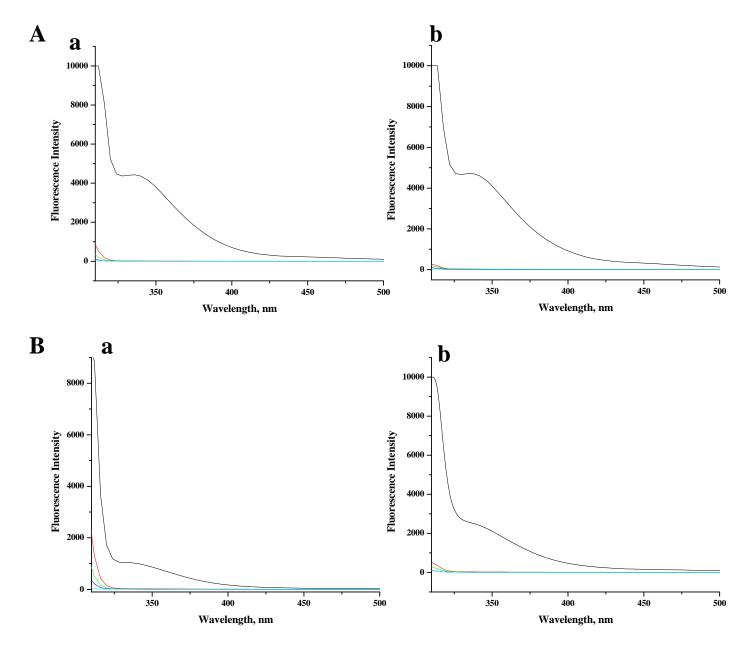


Fig.S3: Tryptophan emission of (A) *P. aeruginosa* and (B) *S. aureus* after incubation with (a) G and (b) SnO₂@G.