

Supplementary information

Mitigation in antibacterial activity of graphene oxide nanosheets towards *Escherichia coli* in the presence of humic acid

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Fig. S1	The surface morphology of GO nanosheets was characterized by transmission electron microscope (TEM) (JEM 2011, Japan).	S1
Fig. S2	The surface functional groups of GO nanosheets were determined by X-ray photoelectron spectroscopy (XPS) (PerkinElmer PHI 5000C ESCA/SAM, U.S.).	S2
Fig. S3	The diffraction peak of GO nanosheets was confirmed by X-ray diffraction (XRD) (Bruker D8 Advance X, Germany).	S2
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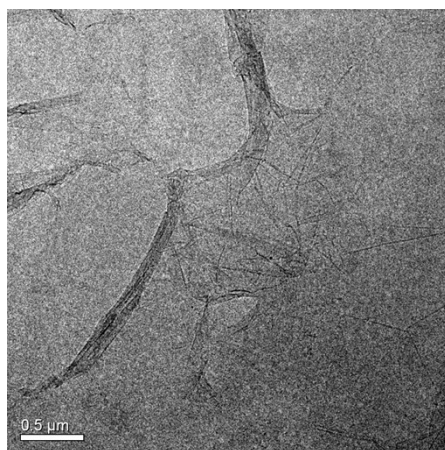


Fig. S1 TEM images of GO nanosheets.

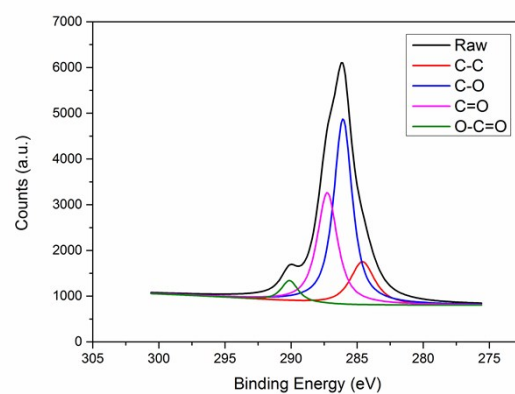


Fig. S2 C1s XPS spectra of GO nanosheets.

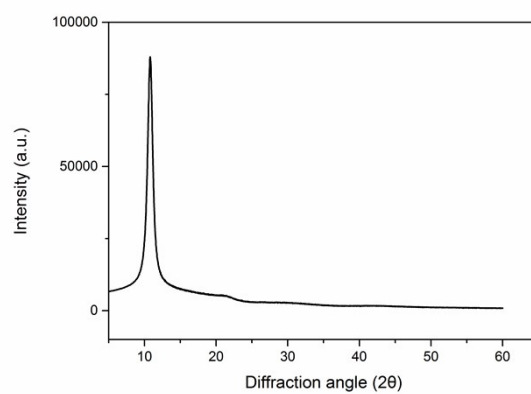


Fig. S3 X-ray diffraction pattern of GO nanosheets.

Tab. S1 The minimum inhibitory concentration (MIC) of GO nanosheets against *E. coli*

Bacterial type	Concentration of GO nanosheets (mg/L)								
	1000	500	250	125	62.5	31.25	15.6	7.8	0
<i>E. coli</i>	-	-	-	-	-	+	+	+	+

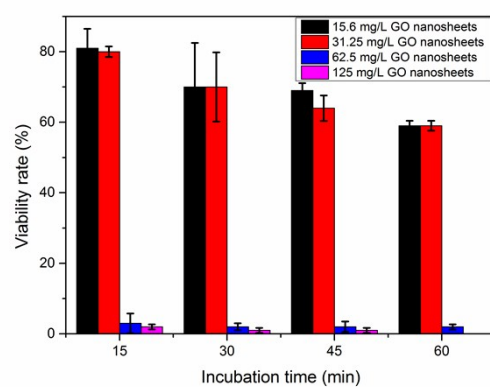


Fig. S4 The minimum bactericidal concentration (MBC) of GO nanosheets towards *E. coli*