Electronic Supplementary Material (ESI) for New Journal of Chemistry.
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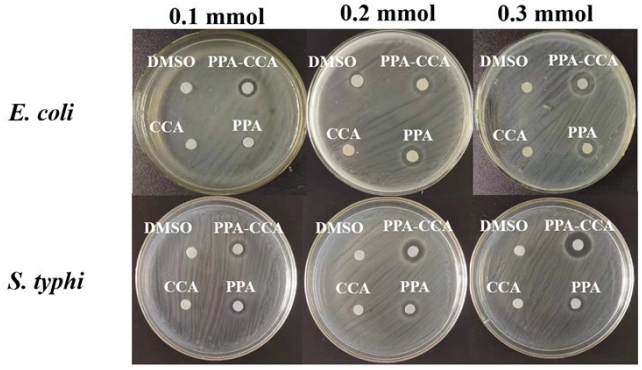


Fig. S1. Results of inhibitory zones of PPA and PPA-CCA on *E. coli* and *S. typhi.*

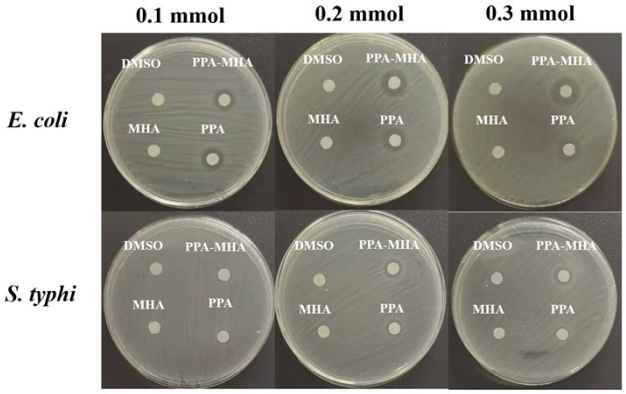
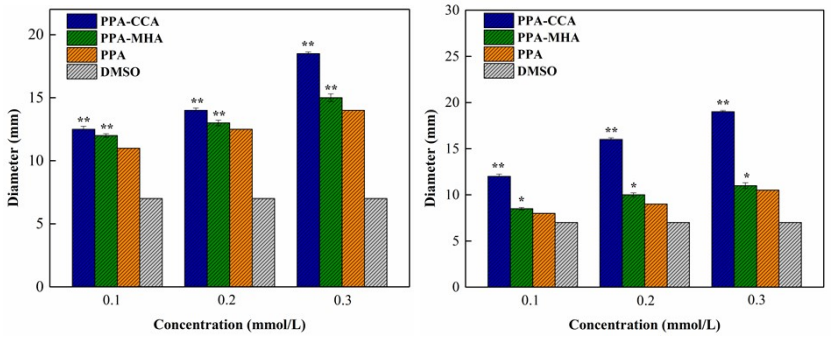


Fig. S2. Results of inhibitory zones of PPA and PPA-MHA on *E. coli* and *S. typhi.*



(a) (b)

Fig. S3. Diameter of inhibitory zones of PPA-CCA, PPA-MHA, PPA and DMSO on *(a) E. coli and (b) S. typhi*, (note: *indicated P<0.05, **indicated P<0.01).

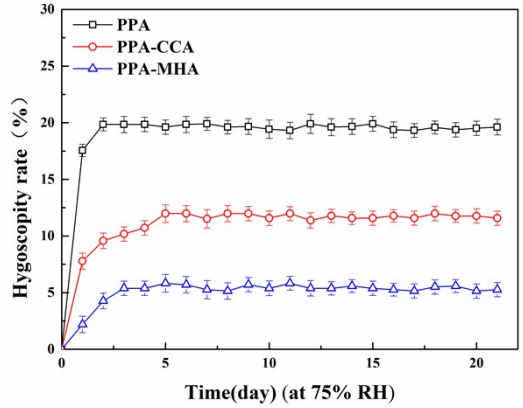


Fig. S4 Hygroscopicity of PPA, PPA-CCA and PPA-MHA at 75% RH.

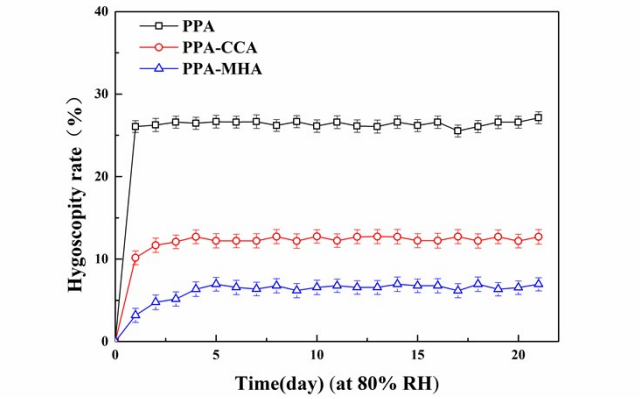


Fig. S5 Hygroscopicity of PPA, PPA-CCA and PPA-MHA at 80% RH.

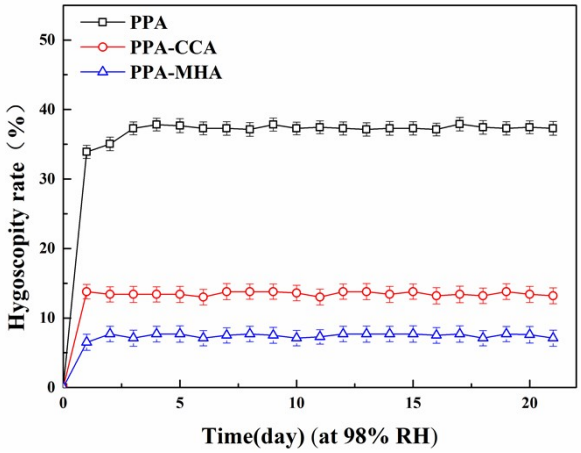


Fig. S6 Hygroscopicity of PPA, PPA-CCA and PPA-MHA at 98% RH.

Table S1 Diameter of inhibitory zones of PPA, PPA-CCA and PPA-MHA on *E. coli* and *S. typhi*.

	E. coli (mm)			S. typhi (mm)		
	0.1 mmol	0.2 mmol	0.3 mmol	0.1 mmol	0.2 mmol	0.3 mmol
PPA-CCA	12.5±0.5	14±0.5	18.5±0.5	12±0.5	16±0.5	19±0.5
PPA-MHA	12±0.5	13±0.5	15±0.5	8.5±0.5	10±0.5	11±0.5
PPA	11±0.5	12.5±0.5	14±0.5	8±0.5	9±0.5	10.5±0.5
CCA	7±0.5	7±0.5	7±0.5	7±0.5	7±0.5	7±0.5
MHA	7±0.5	7±0.5	7±0.5	7±0.5	7±0.5	7±0.5
DMSO	7±0.5	7±0.5	7±0.5	7±0.5	7±0.5	7±0.5