

## Supporting Information

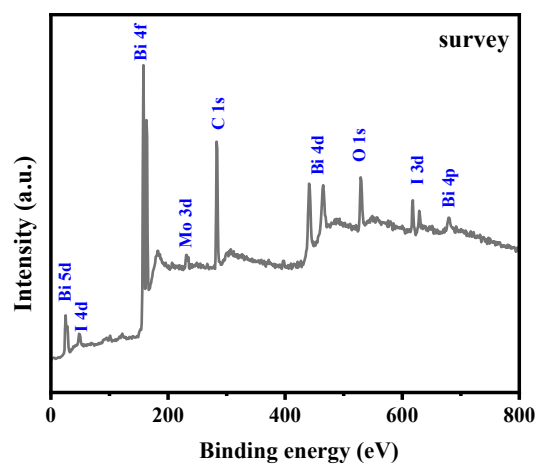


Fig. S1 XPS survey spectrum of BM/BI-3.

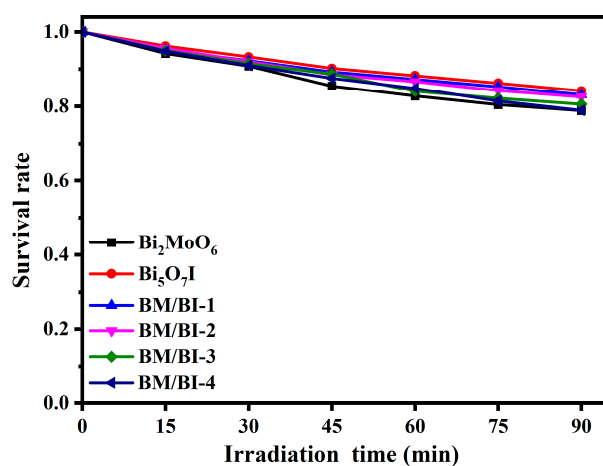


Fig. S2 Antibacterial activities of synthesized samples under dark.



Fig. S3. Bacterial colonies of re-cultured *E. coli* treated with BM/BI-3 under different irradiation time.