

Supporting Information

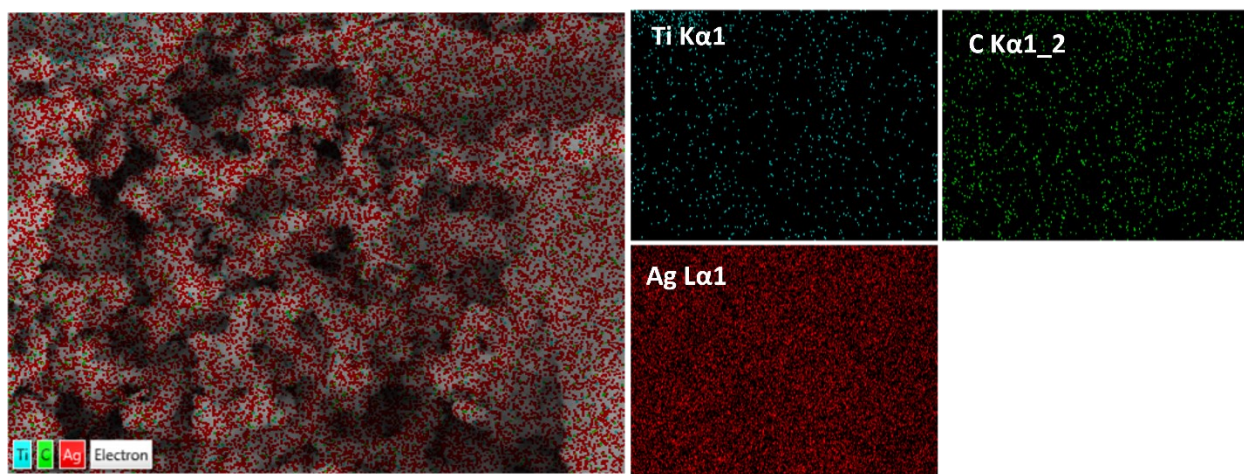


Fig. S1 Elemental mapping of showing the homogenous distribution of Ag, Ti and C elements

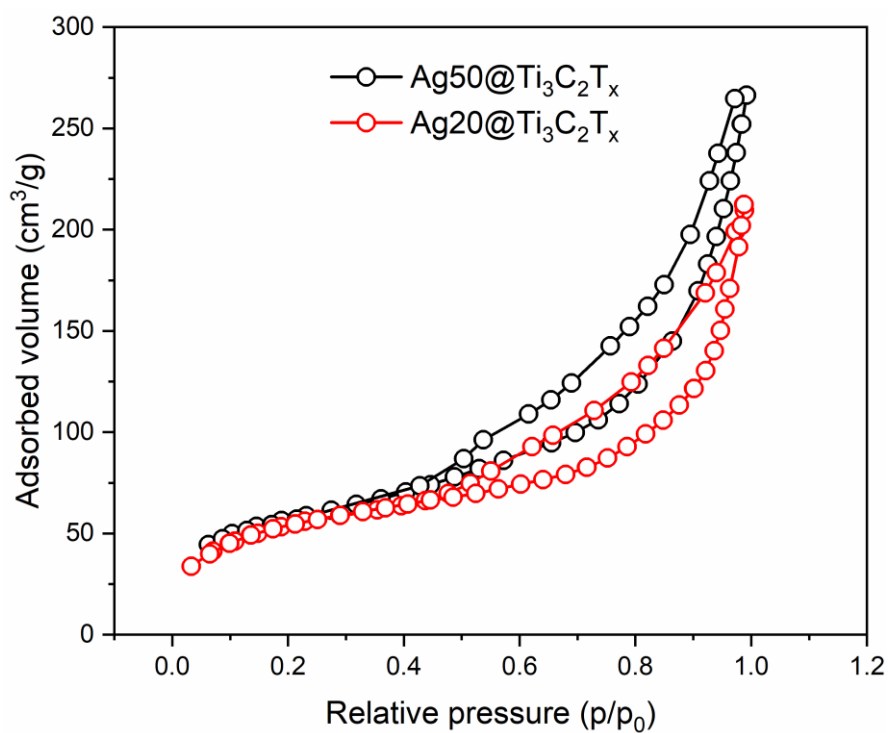


Fig. S2 BET surface area of Ag20@Ti₃C₂T_x and Ag50@Ti₃C₂T_x

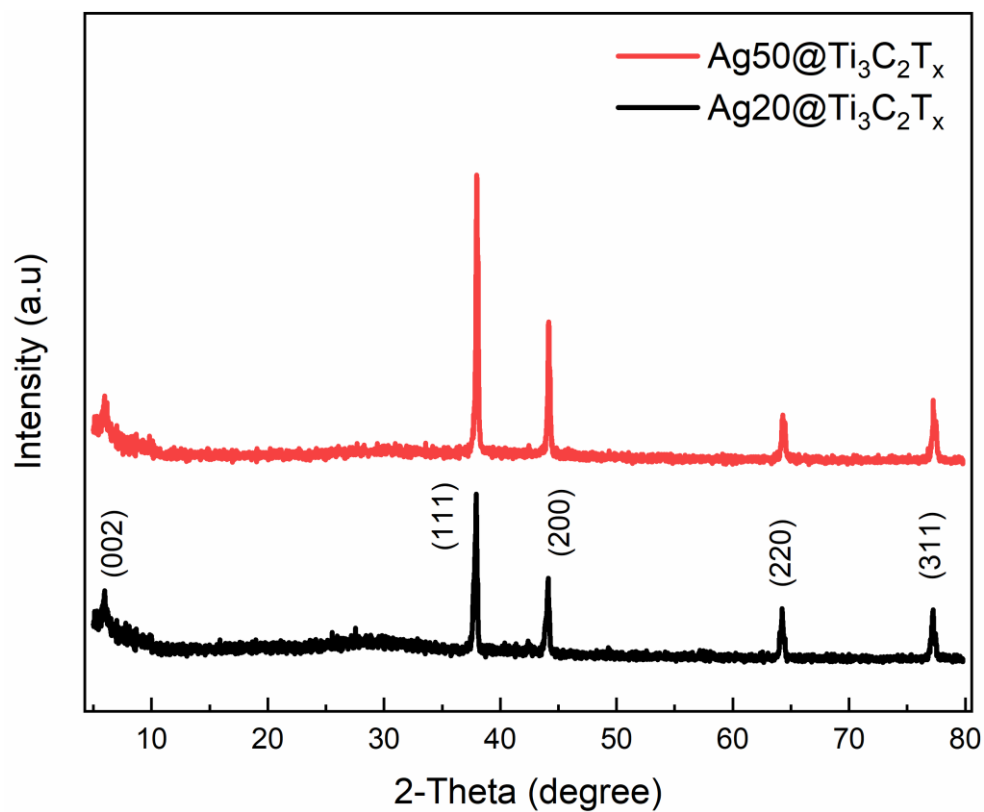


Fig. S3 XRD pattern of Ag20@Ti₃C₂T_x and Ag50@Ti₃C₂T_x photocatalysts to check their stability after degradation experiments

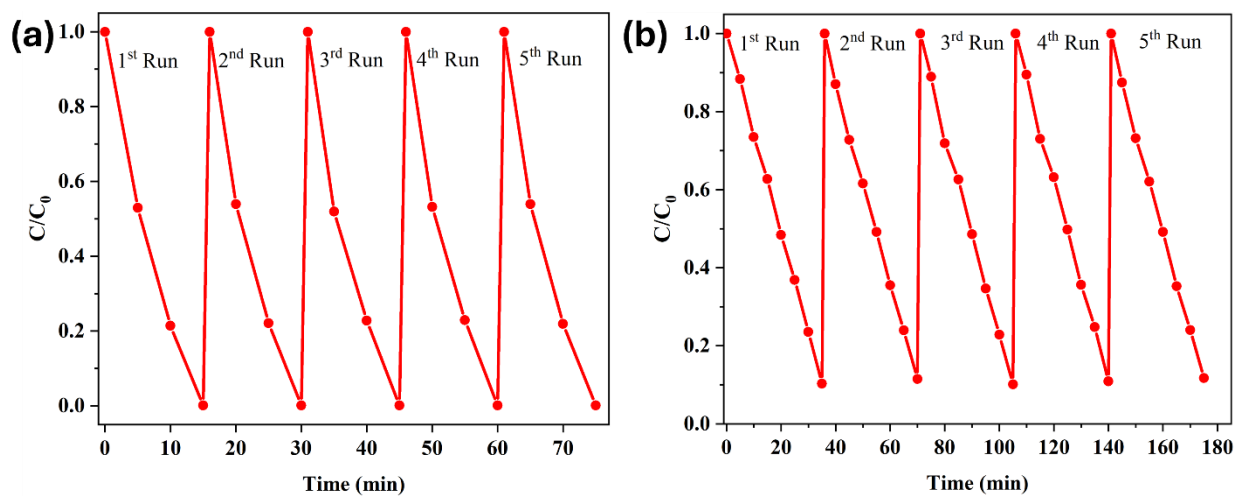


Figure S4 (a) Reusability of Ag50@Ti₃C₂T_x catalyst having 5 mg concentration (b) Reusability of Ag20@Ti₃C₂T_x catalyst having 5 mg concentration