

**Preparation of carbon-coated brookite@anatase TiO<sub>2</sub> heterophase junction  
nanocable with enhanced photocatalytic performance**

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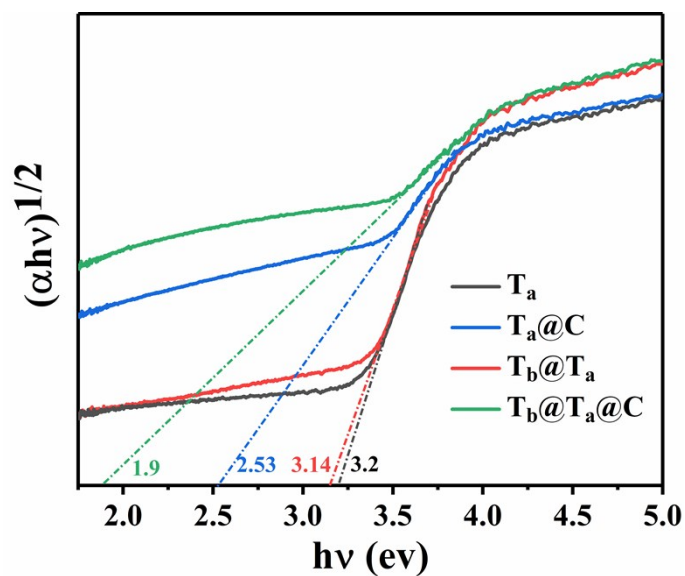


Figure S1. Plots of  $(\alpha h\nu)^{1/2}$  vs.  $h\nu$  for  $T_a$ ,  $T_a@C$ ,  $T_b@T_a$ , and  $T_b@T_a@C$ .

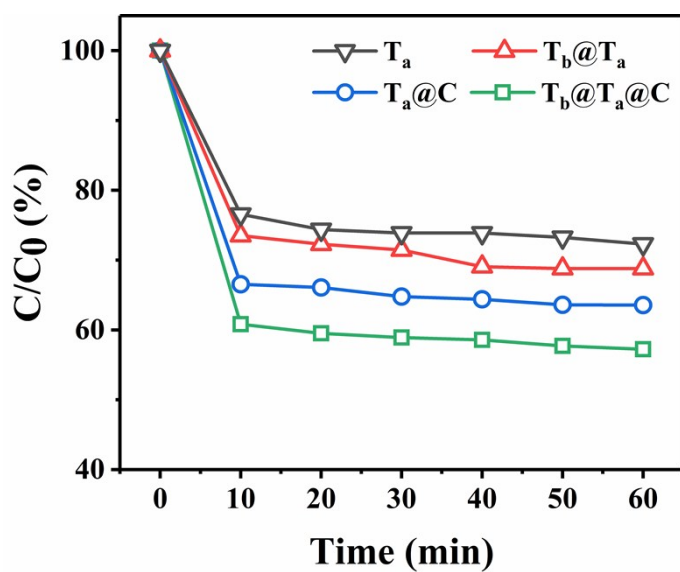


Figure S2. Time-dependent adsorption of  $T_a$ ,  $T_a@C$ ,  $T_b@T_a$ , and  $T_b@T_a@C$  for TC in dark. Experimental conditions: 20 mg sample was added to 40 mL TC aqueous solution (20 mg/L), and kept stirring in dark. Collected 3.5 mL mixture every 10 min and centrifuged at 9000 rpm/min for 10 min to separate the solid sample from the solution.