

## Electronic Supplementary Information

Tunable auto-combustion preparation of TiO<sub>2</sub> nanostructures as efficient adsorbents  
for the removal of an anionic textile dye

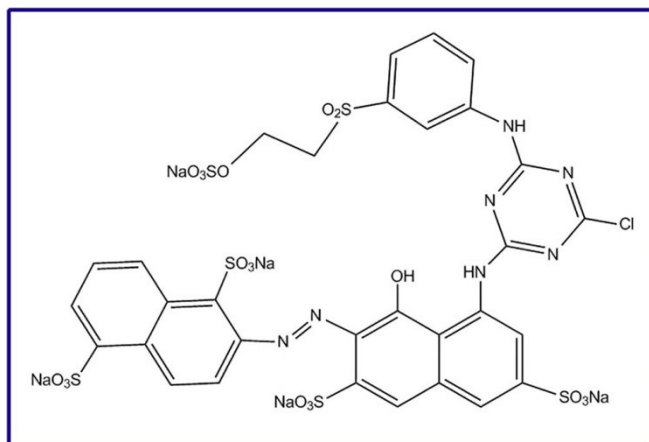
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Scheme S1. Chemical structure of Reactive Red 195 dye (RR195).

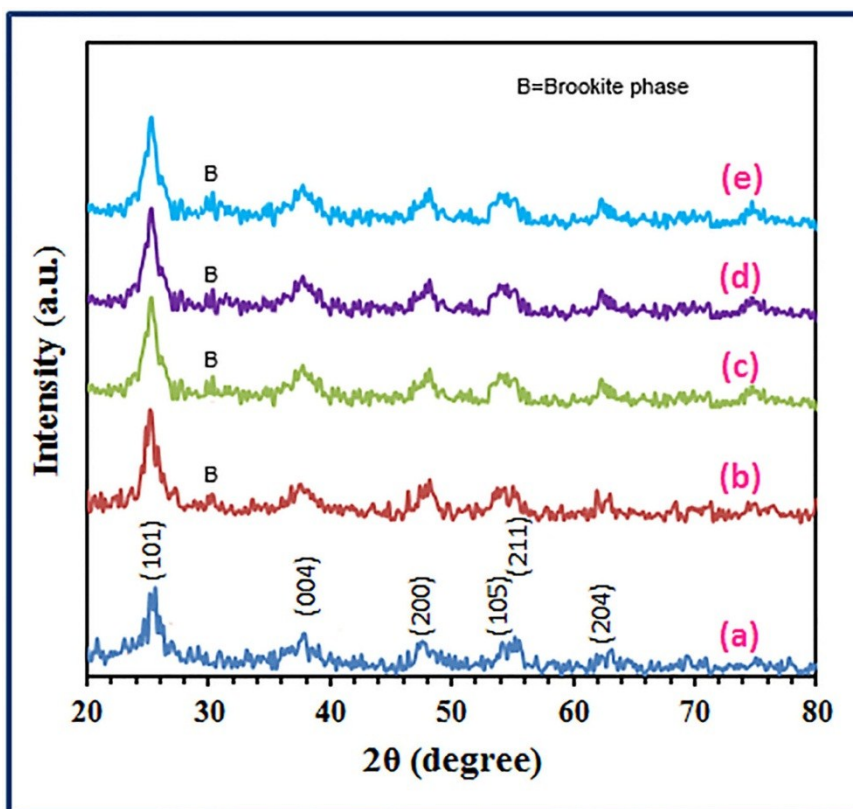


Fig. S1. XRD patterns of the as-synthesized  $\text{TiO}_2$  products calcined at 500 °C using L-alanine fuel.

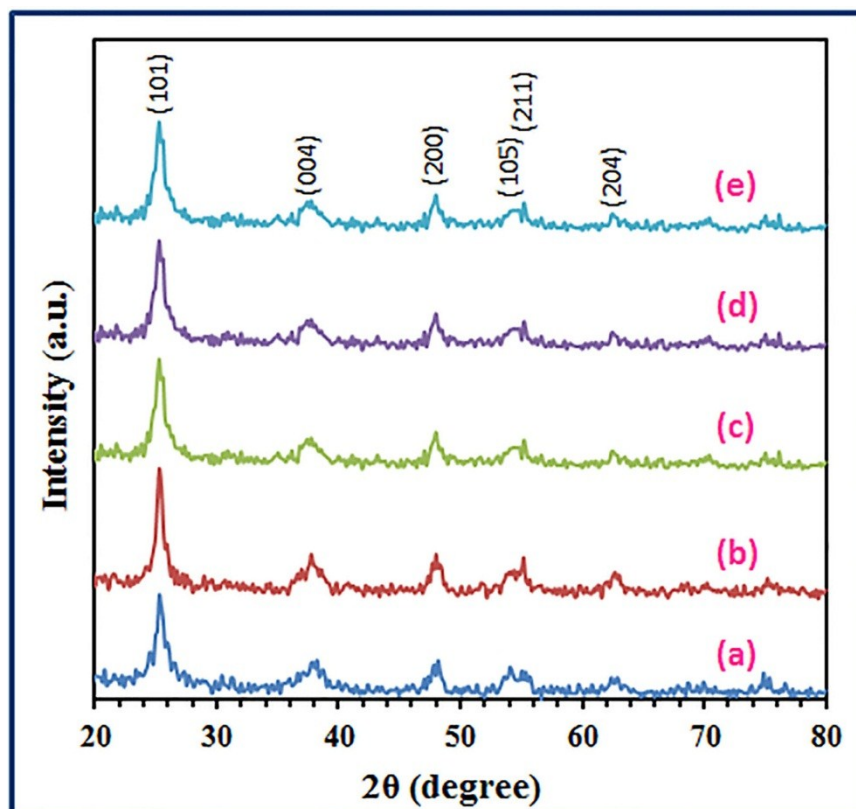


Fig. S2. XRD patterns of the as-synthesized TiO<sub>2</sub> products calcined at 500 °C using glycine fuel.

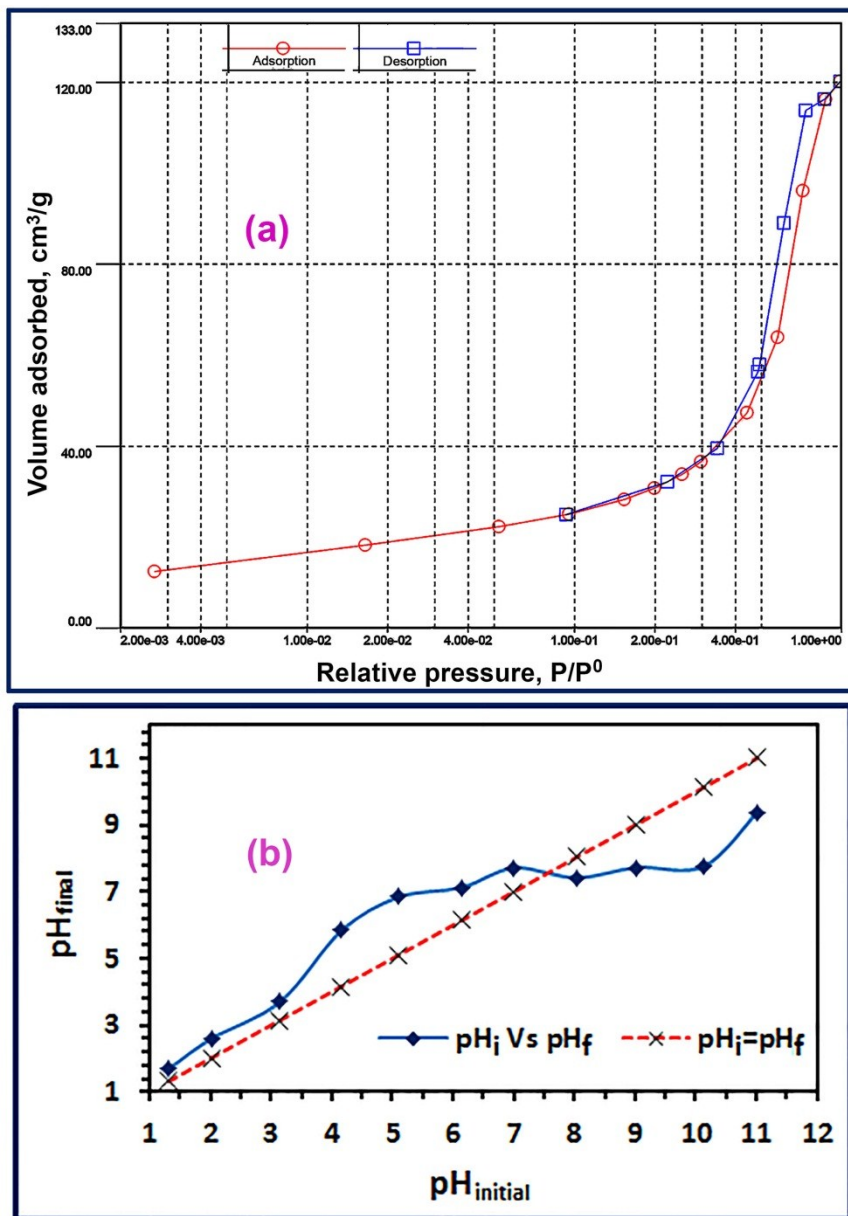


Fig. S3. N<sub>2</sub>-adsorption-desorption isotherm (BET) (a) and plot of pH<sub>initial</sub> versus pH<sub>final</sub> for estimation of pHP<sub>zc</sub> for TiO<sub>2</sub> product (b).