

### Supporting information for

#### **Synthesis and application of magnetic reduced graphene oxide composites for the removal of Bisphenol A in aqueous solution—a mechanistic study**

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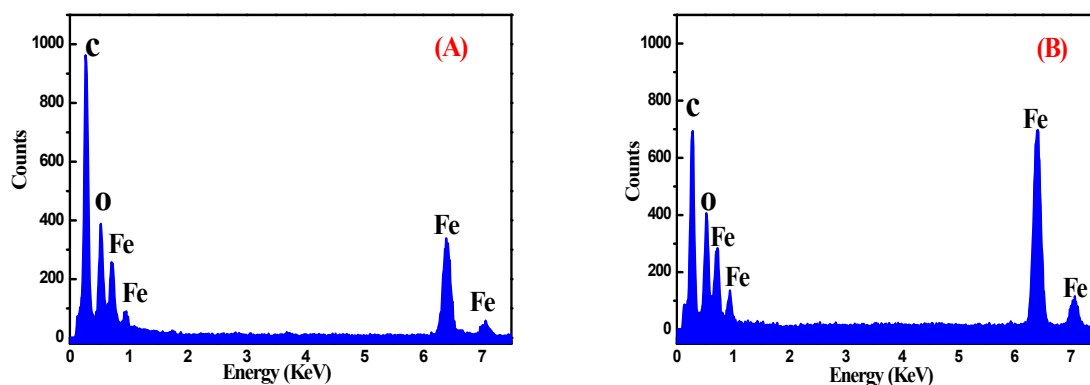


Fig. S1 the EDX analysis showing the presence of C, Fe, and O for MRGO-1 (A) and MRGO-2 (B)

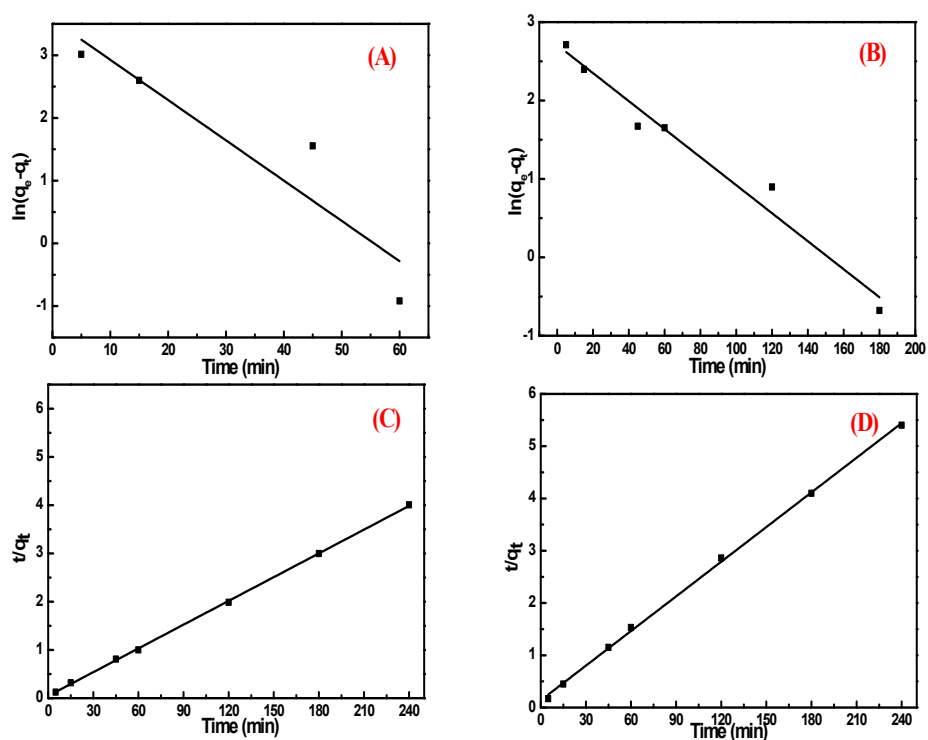


Fig. S2 Kinetic models for BPA adsorption: (A) and (B) pseudo-first-order model and (C) and (D) pseudo-second-order model. (20 mg of adsorbent and 100 mL of 50 mg/L BPA at 298.15 K, pH 6.0).

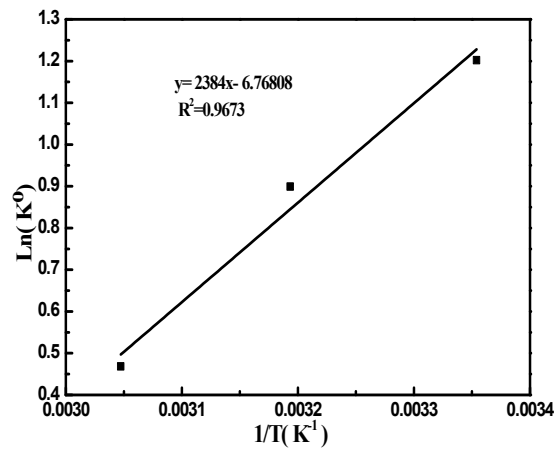


Fig. S3 Linear plot of  $\ln K^\circ$  versus  $1/T$  for the adsorption of BPA by MRGO-1 at 298.15, 313.15, 328.15 K

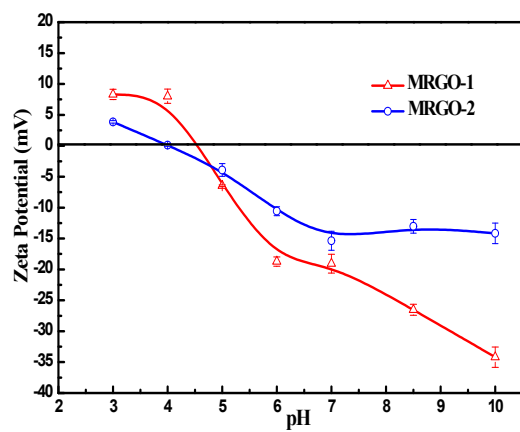


Fig. S4 The zeta potentials of MRGO-1 and MRGO-2