

Fig. S1. (a) Pseudo-first-order and (b) pseudo-second-order kinetic plots for Cr(VI) and Cd(II) adsorption onto G7 (Conditions: $C_0 = 50$ mg/L, pH 6.0, adsorbent dose = 10 mg).

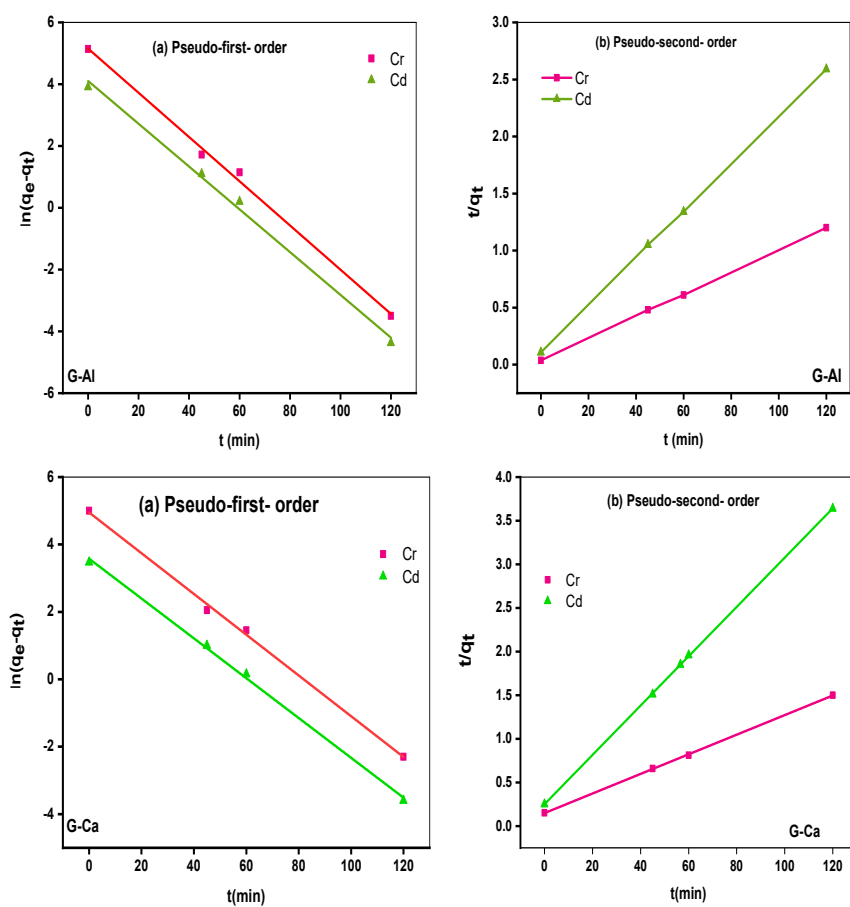


Fig.S2. (a) Pseudo-first-order and (b) pseudo-second-order kinetic plots for the adsorption of Cr(VI) and Cd(II) onto G-Al, and G-Ca adsorbent (Conditions: 50 mg/L initial concentration, pH 6.0, 10 mg adsorbent dose).

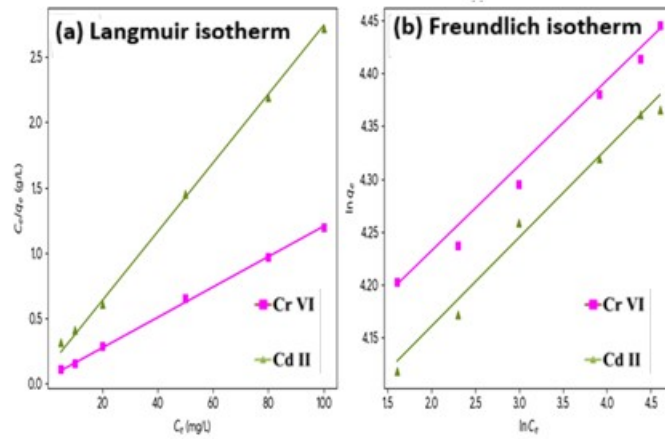


Fig. S3. Adsorption isotherms for Cr(VI) and Cd(II) onto G-Al adsorbent: (a) Langmuir model) and (b) Freundlich model (Conditions: Adsorbent dose = 10 mg, pH = 6.0, Temperature = 25°C).