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Equilibrium, kinetic and thermodynamic studies on adsorption of cationic dyes from aqueous solutions using graphene oxide

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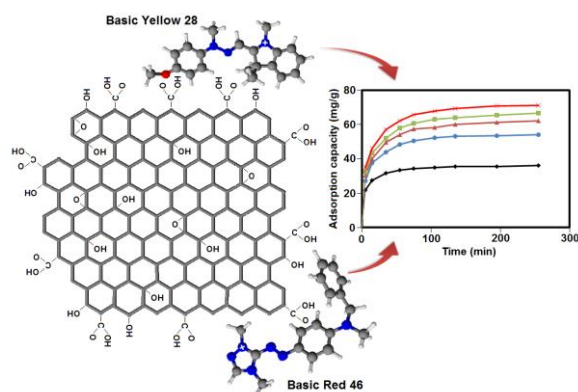
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Graphical abstract



Highlights

- Graphene oxide GO was used as an adsorbent.
- Adsorption of two cationic dyes, Basic Yellow 28 and Basic Red 46 was studied.
- Adsorption of dyes onto GO was favored at high pH.
- Adsorption followed the pseudo-second-order kinetic model and Langmuir model.
- Adsorption of dyes onto GO was spontaneous and endothermic in nature.

Abstract

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