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Adsorption of Cu^{2+} , Cd^{2+} and Ni^{2+} from aqueous single metal solutions on graphene oxide membranes

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Highlights ☐

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Highlights

1. Novel, well-ordered GO membranes were prepared and characterized.
2. The GO membranes had high adsorption capacity and fast adsorption rate.
3. The effects of pH and Na^+ on Cd^{2+} , Cu^{2+} and Ni^{2+} sorption were studied.
4. Adsorption mechanisms of Cd^{2+} , Cu^{2+} and Ni^{2+} on the GO membranes were elucidated.

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