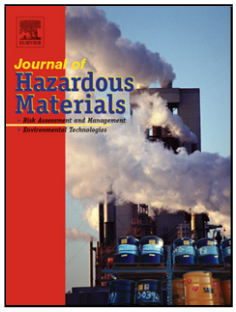


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# Adsorption of $Cu^{2+}$, $Cd^{2+}$ and $Ni^{2+}$ from aqueous single metal solutions on graphene oxide membranes

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Highlights

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.