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Title: Adsorption of Cu<sup>2+</sup>, Cd<sup>2+</sup> and Ni<sup>2+</sup> from aqueous single metal solutions on graphene oxide membranes

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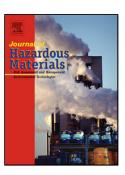
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## ACCEPTED MANUSCRIPT

# Adsorption of Cu<sup>2+</sup>, Cd<sup>2+</sup> and Ni<sup>2+</sup> 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<sup>2+</sup>, Cu<sup>2+</sup> and Ni<sup>2+</sup> on the GO membranes were elucidated.

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