

Supporting Information

Selective Ion Penetration of Graphene Oxide Membranes

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This file includes:

Supplementary figures: Figs. S1~S8.

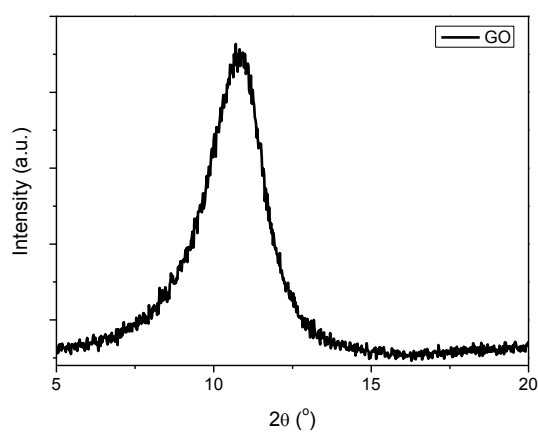


Fig. S1 XRD profile of the GO membrane prepared by drop-casting from 2 mg/mL GO suspension.

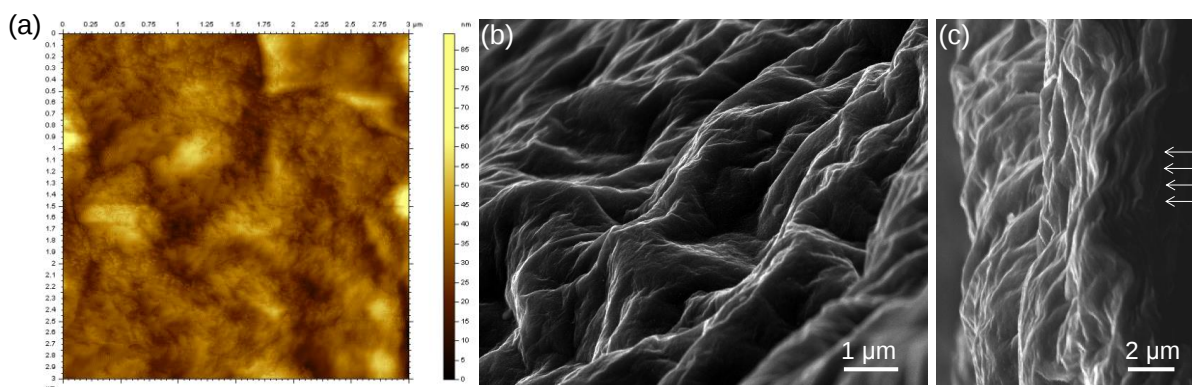


Fig. S2 (a) AFM (planar view), (b) SEM (planar view) and (c) SEM (cross-sectional view) of the GO membrane.

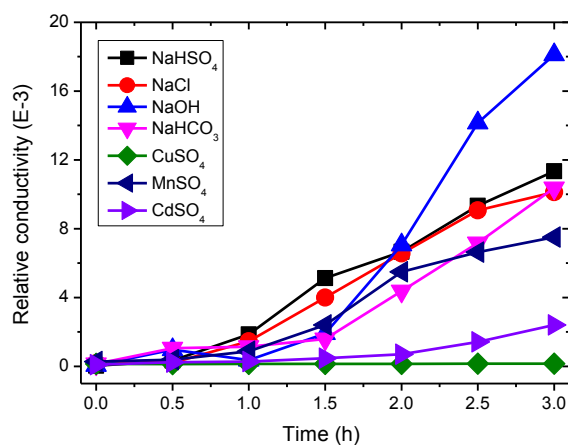


Fig. S3 Relative conductivity changes of different aqueous solutions during the penetration process.

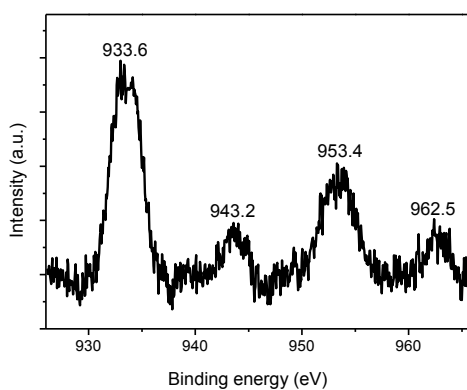


Fig. S4 XPS spectrum (Cu2p) of the GO membrane after 3h penetration of CuSO₄ solution.

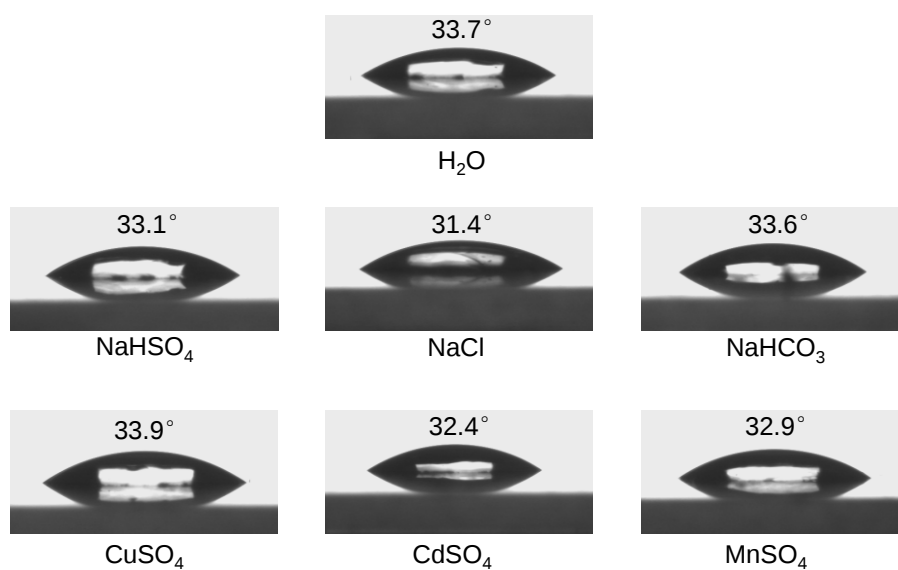


Fig. S5 Contact angle measurements of different aqueous solutions on GO membranes.

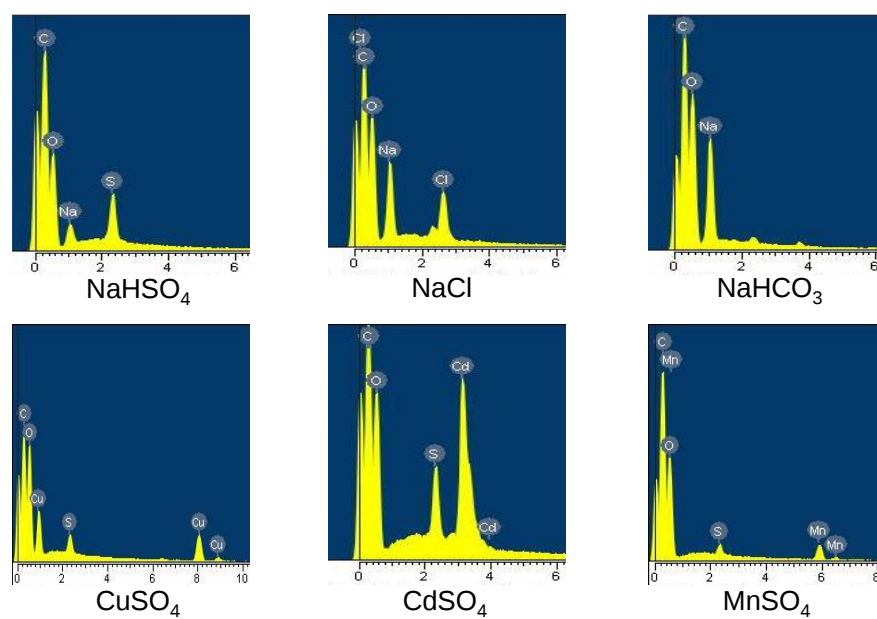


Fig. S6 EDS spectra of GO membranes after 3h penetration of different aqueous solutions.

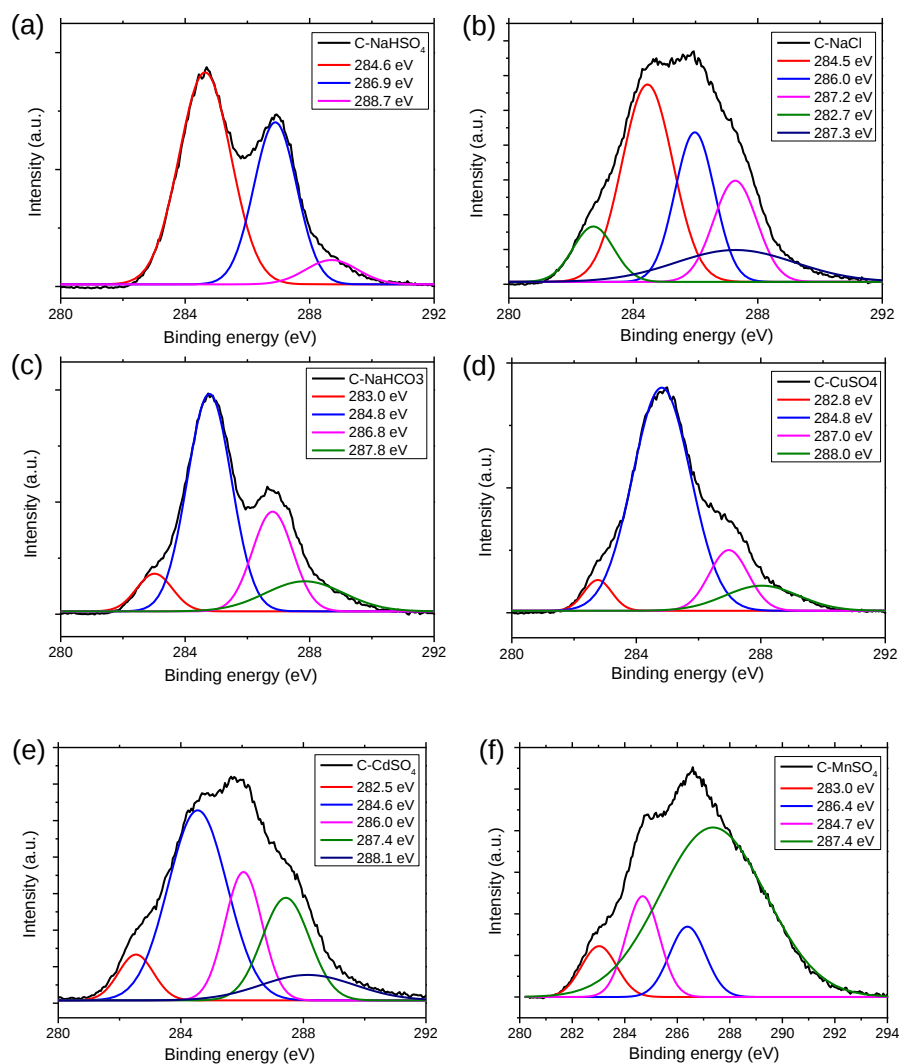


Fig. S7 XPS spectra (C1s) of GO membranes after 3h penetration of (a) NaHSO₄, (b) NaCl, (c) NaHCO₃, (d) CuSO₄, (e) CdSO₄, (f) MnSO₄.

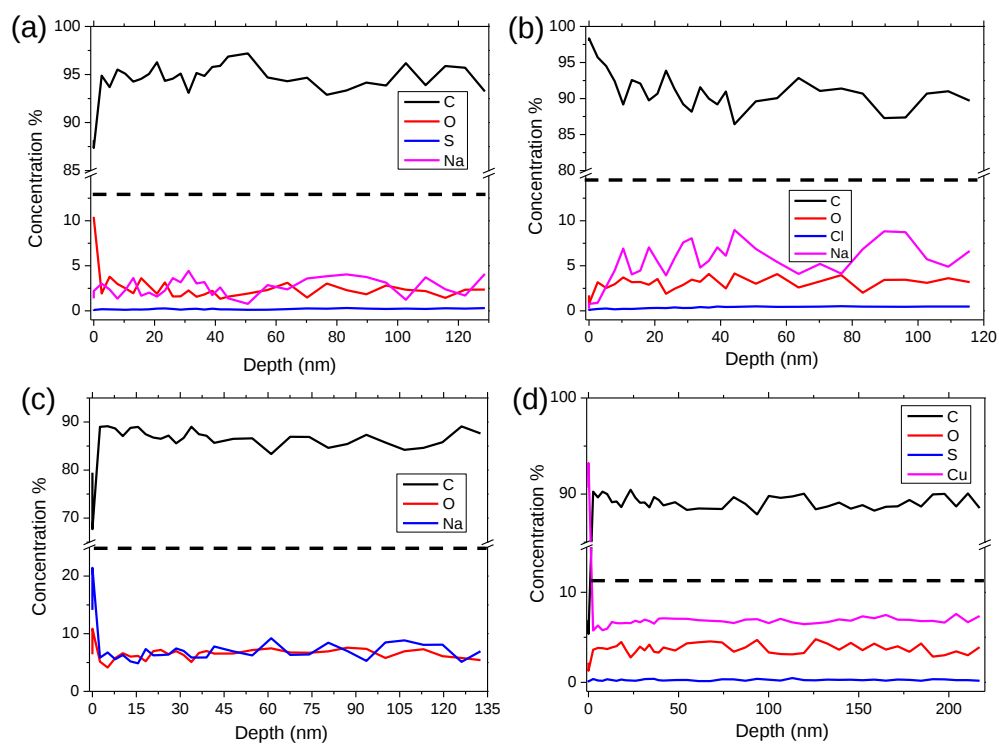


Fig. S8 AES spectra of GO membranes after 3h penetration of (a) NaHSO₄, (b) NaCl, (c) NaHCO₃, (d) CuSO₄.