

Supporting Information

High-performance asparagine-modified graphene oxide membranes for organic dyes and heavy metal ions separation

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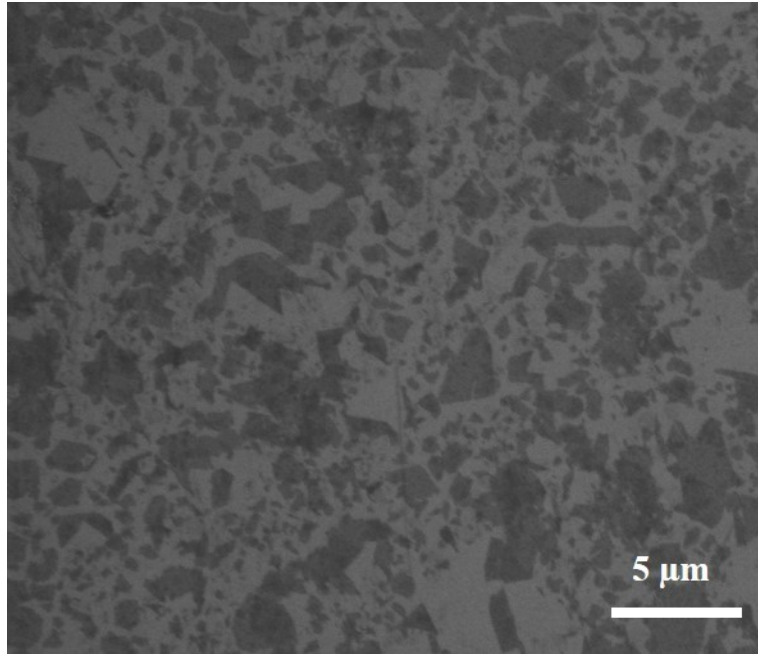


Fig. S1 SEM studies and thickness of GO nanosheets.

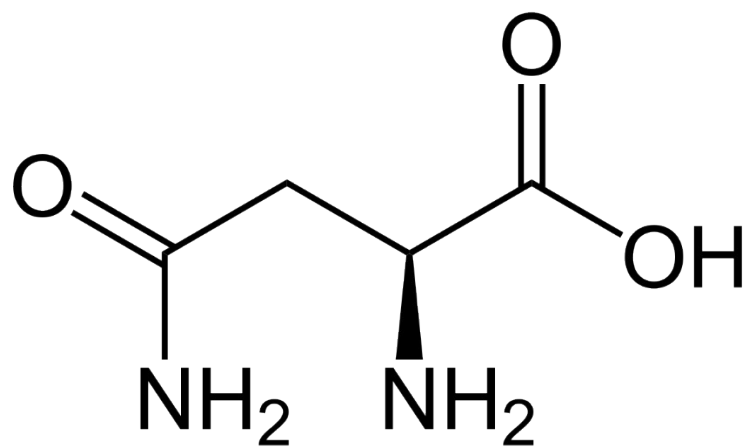


Fig. S2 Molecular structure and functional groups of Asparagine amino acid

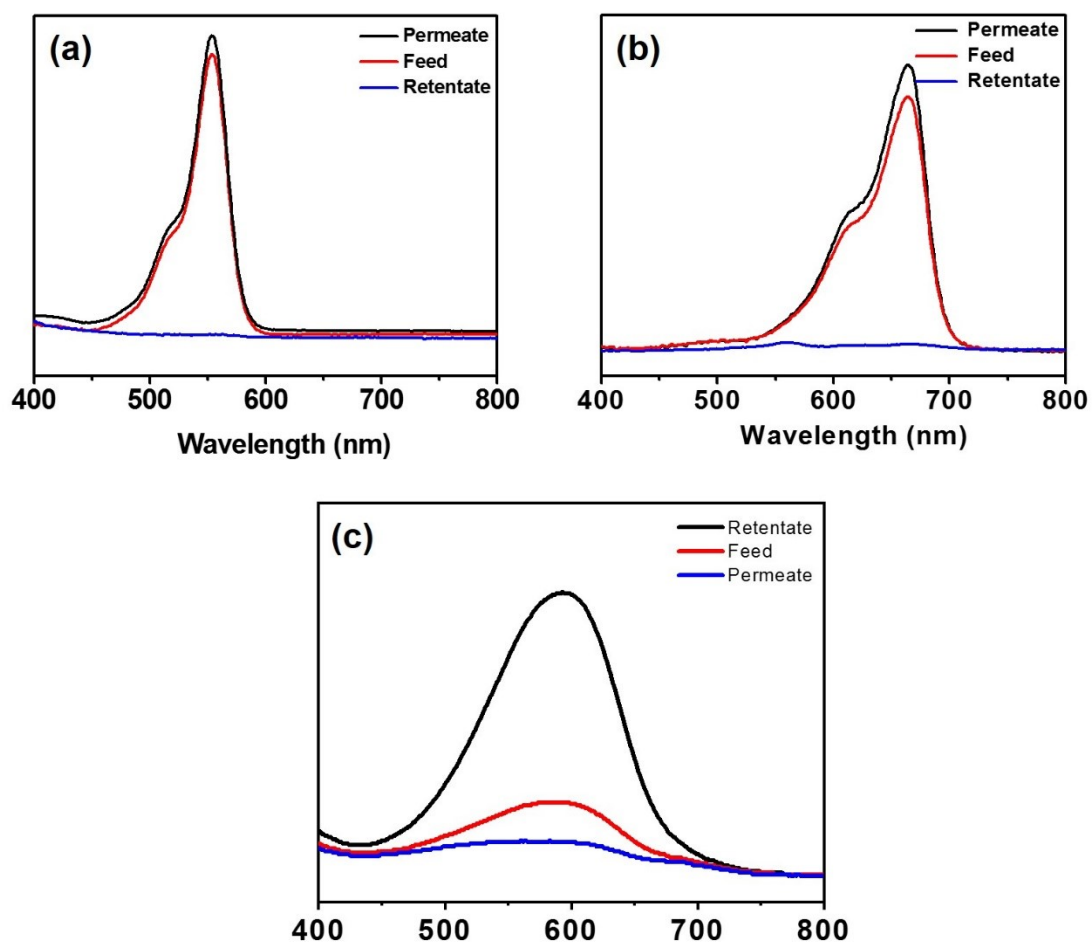


Fig. S3 Ultraviolet-visible absorption spectra of the feed, retentate and permeate of (a) RB, (b) MLB and (c) MB solution after filtration by As@GO composite membrane ($\sim 300 \pm 10$ nm).

Table S1. The equilibrium weight swelling ratio (ESR) of GO-based membranes in water.

Membranes	DI Water
Pure GO membrane (320±10)	2.3± 0.1
As@GO membrane (300±10 nm)	0.8± 0.1