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 (~300 ± 10 nm).
Table S1. The equilibrium weight swelling ratio (ESR) of GO-based membranes in water.

<table>
<thead>
<tr>
<th>Membranes</th>
<th>DI Water</th>
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<tr>
<td>Pure GO membrane (320±10)</td>
<td>2.3± 0.1</td>
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<tr>
<td>As@GO membrane (300±10 nm)</td>
<td>0.8± 0.1</td>
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