Modified walnut shell filter material for enhancing the oil removal efficiency of oilfield wastewater treatment

![Chemical structure](image)

Fig. S1. The modification process.

![Wettability images](image)

Fig. S2. Wettability of different walnut shell filter materials.

![Stress-strain curves](image)

Fig. S3. Stress-strain curve of filter material before (No.0) and after modification (No. 3).

Table S1. Oil Content of Effluent From Filter Material Backwashing (mg/L)

<table>
<thead>
<tr>
<th>Serial number</th>
<th>No.0</th>
<th>No.1</th>
<th>No.3</th>
<th>No.0 + No.1</th>
<th>No.0 + No.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>oil content</td>
<td>11.00</td>
<td>25.44</td>
<td>405.15</td>
<td>27.11</td>
<td>84.78</td>
</tr>
</tbody>
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