Supporting Information

Magnesium silicate coated electrospun fiber flexible adsorbent for high-efficiency removal of toxic cationic herbicide

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Fig. S1. Diquat adsorption capacities for different mass ratios of SiO$_2$ sol and PAN solution.

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<thead>
<tr>
<th>Sample</th>
<th>Tensile strength (MPa)</th>
<th>Elongation at break (%)</th>
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<tbody>
<tr>
<td>SiO$_2$/PAN fibers</td>
<td>5.34 ± 0.82</td>
<td>29.14 ± 3.51</td>
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<tr>
<td>MgSi/PAN fibers</td>
<td>6.82 ± 1.45</td>
<td>14.57 ± 2.72</td>
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Fig. S2. Mechanical property parameters and optical images of the flexibility of MgSi/PAN fiber mat.
Fig. S3. TGA curves of PAN fibers and MgSi/PAN fibers under air atmosphere.

Fig. S4. SEM image of MgSi/PAN fibers after five adsorption–desorption cycles.

Fig. S5. UV-Vis spectra of the diquat solution before and after filtration for different concentrations (A: 5 mg/L, B: 10 mg/L and 20 mg/L).