Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting Information

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

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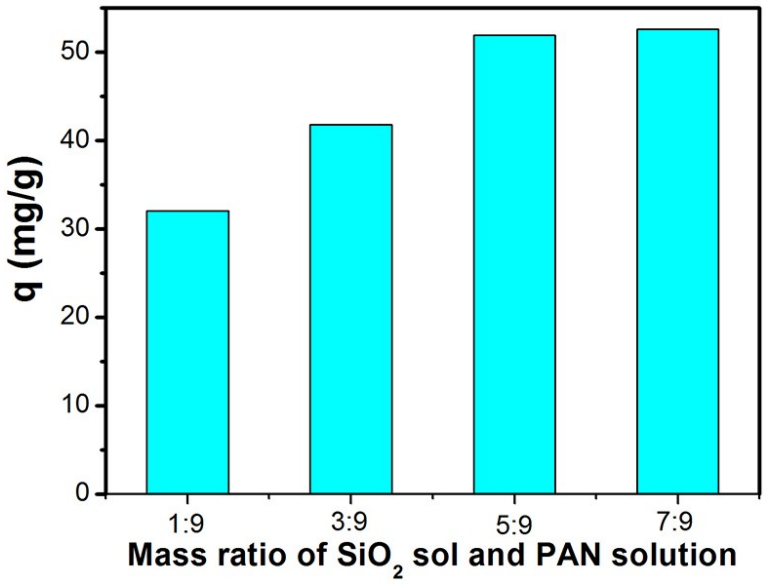

Fig. S1. Diquat adsorption capacities for different mass ratios of SiO_2 sol and PAN solution.

Sample	Tensile strength (MPa)	Elongation at break (%)
SiO_2/PAN fibers	5.34±0.82	29.14±3.51
MgSi/PAN fibers	6.82±1.45	14.57±2.72

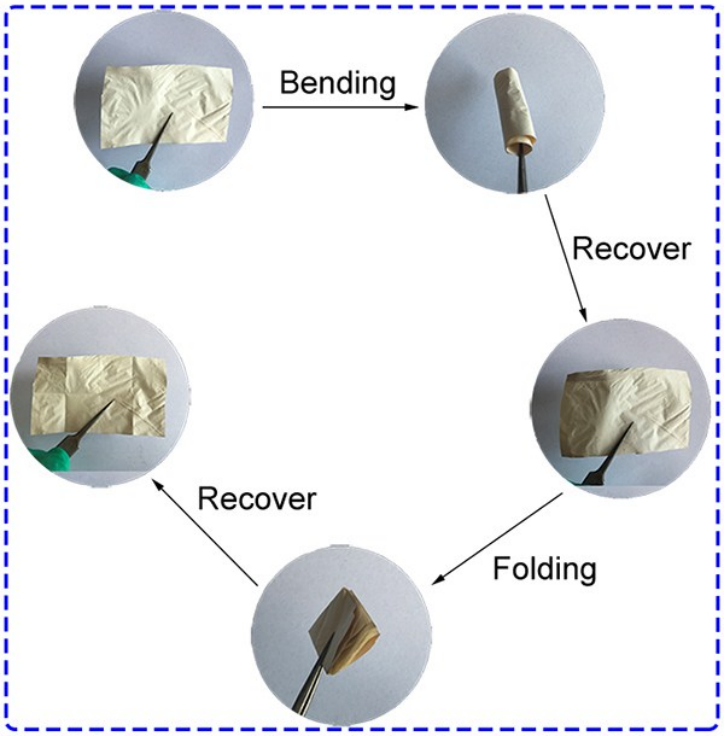

Fig. S2. Mechanical property parameters and optical images of the flexibility of MgSi/PAN fiber mat.

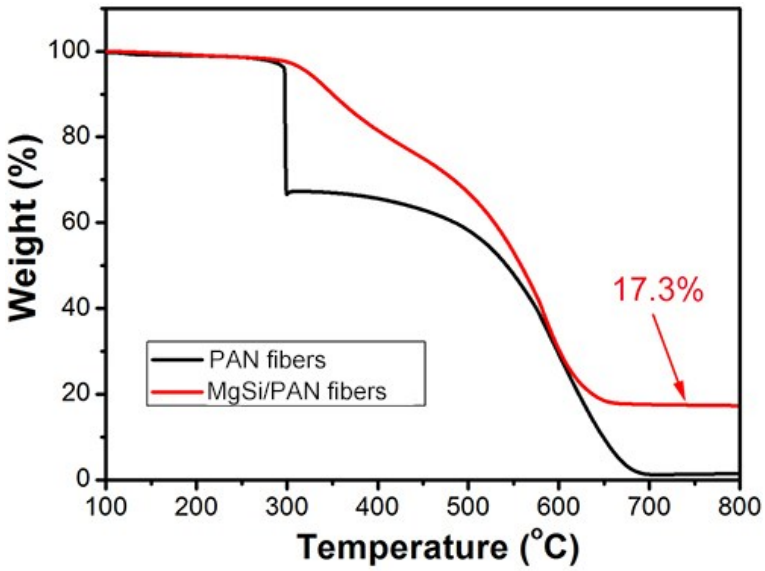

Fig. S3. TGA curves of PAN fibers and MgSi/PAN fibers under air atmosphere.

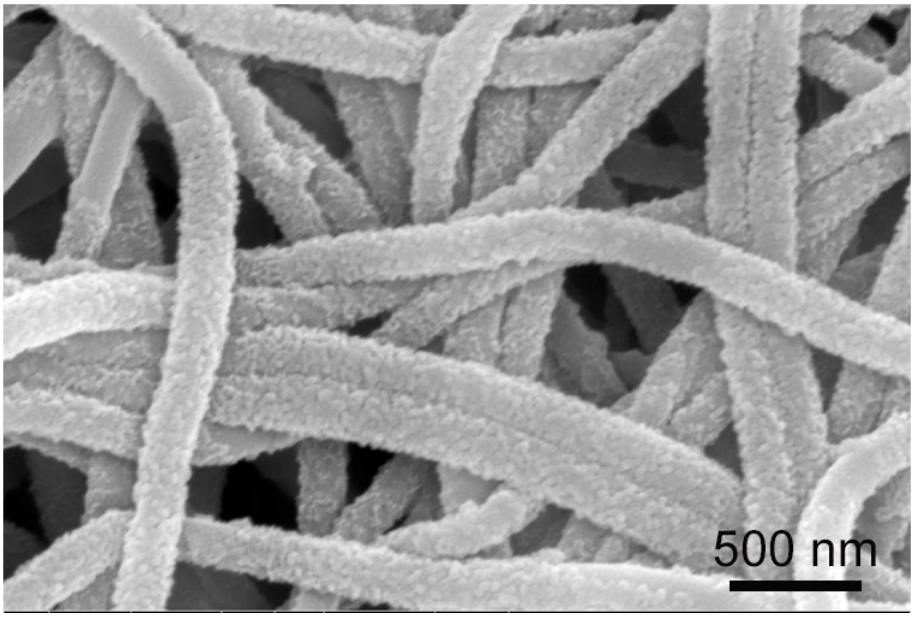

Fig. S4. SEM image of MgSi/PAN fibers after five adsorption–desorption cycles.

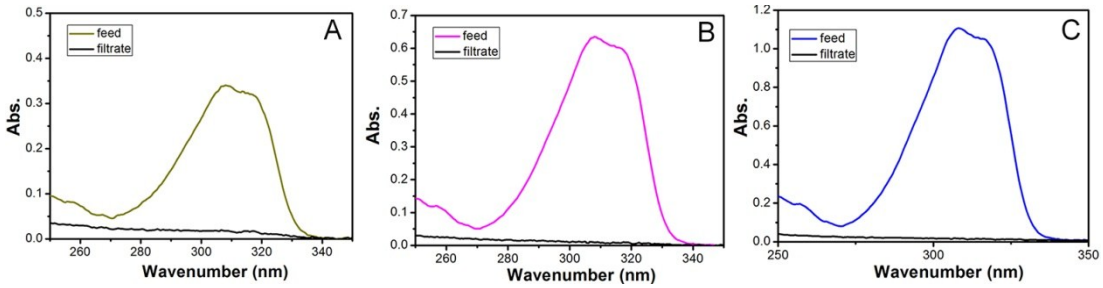

Fig. S5. UV-Vis spectra of the diquat solution before and after filtration for different concentrations (A: 5 mg/L, B: 10 mg/L and 20 mg/L).