

## Loess surface grafted functional copolymer for removing basic fuchsin

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### Supplementary Information

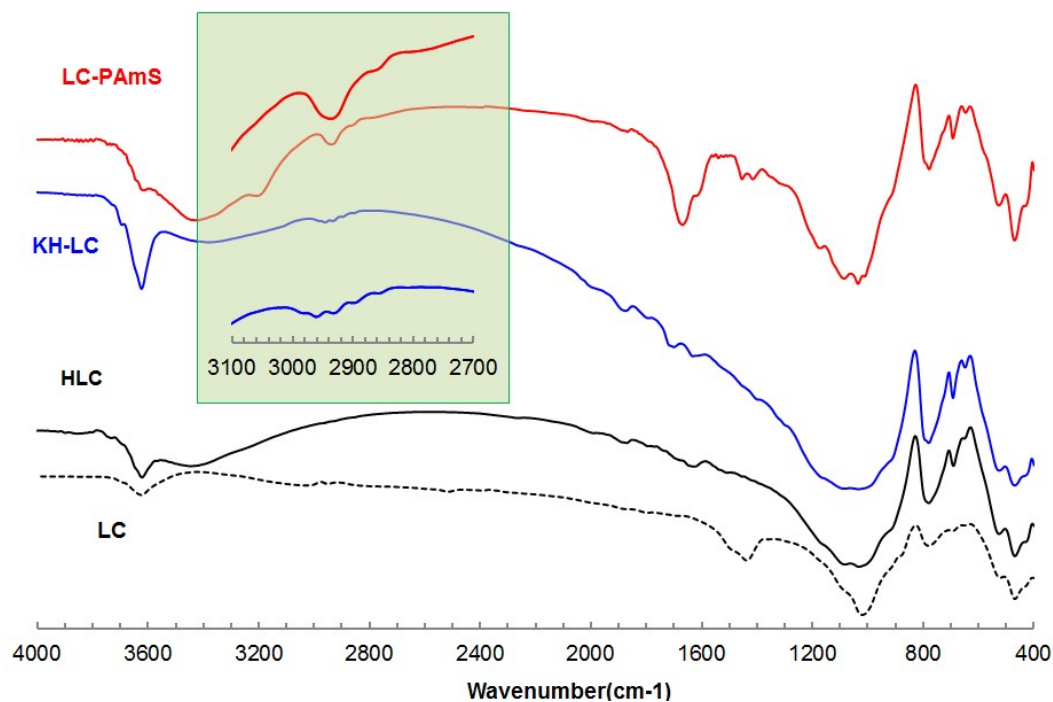
#### *Preparation of LC surface grafting polyacrylamide (LC-PAM)*

The procedure for preparation of LC surface grafting polyacrylamide (LC-PAM) was similar to LC-PAmS, which the amount of monomer was changed. Using 1.0 g of AM and 0.05 g of MBA without StS, LC-PAM was obtained.

#### *Preparation of LC surface grafting polystyrene sulfonate (LC-PStS)*

The procedure for preparation of LC- PStS was similar to LC-PAmS, which the amount of monomer was changed. Using 1.0 g of StS and 0.05 g of MBA without AM, LC- PStS was obtained.

#### *Characterization*



**Figure S1** FT-IR spectra of LC-PAmS and its materials (LC, HLC, LC-KH).

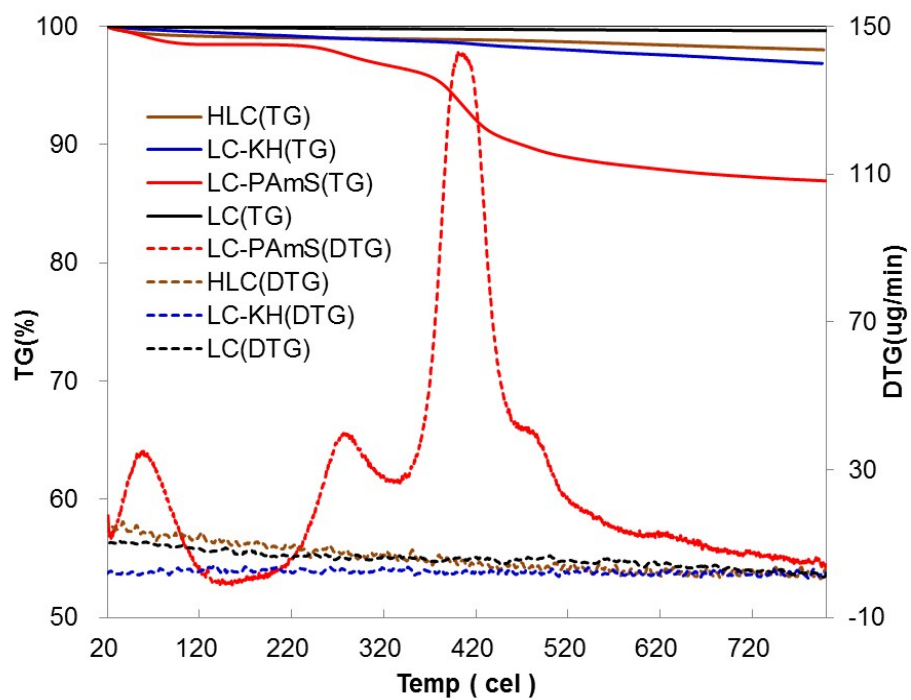


Figure S2 TG and DTG curves of LC-PAmS and its materials (LC, HLC, LC-KH).