**Supplementary Material**



**Figure S1.** Absorption capacity of lyophilized natural sorbents.



**Figure S2**. Absorption capacities for the MWCNT composites.



**Figure S3.** Absorption capacities of composites hydrophobized with MWCNTs-Fe3O4.



**Figure S4.** Absorption capacity for samples hydrophobized with PS/SiO2.



**Figure S5.** Absorption capacities of samples hydrophobized with PS/SiO2 -Fe3O4.