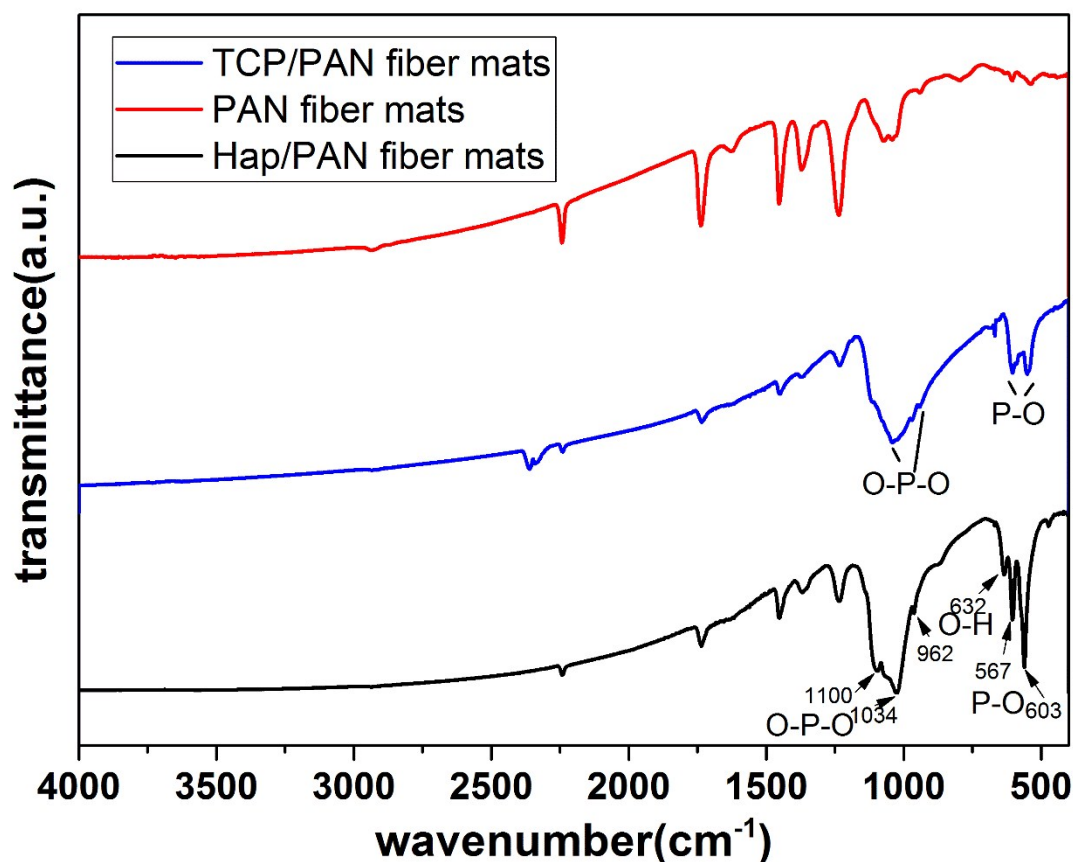


Supporting Information



S1: the FTIR spectra of TCP/PAN fiber mats, PAN fiber mats and Hap/PAN fiber mats.

The FTIR spectrum corresponding to PAN fiber mats is functioned as a contrast with the TCP/PAN fiber mats and Hap/PAN fiber mats. From the spectrum of Hap/PAN composite fiber mats, we can see that the bands at 567, 603 and 962 cm⁻¹ are derived from the phosphate modes (O-P-O) and the strong bands at 1034 and 1100 are assigned to the P-O stretching vibration of PO₃⁴⁻, standing for phosphate mode. The bending mode of the OH⁻ appear at 632 cm⁻¹. As seen from the spectra in Fig. S1, TCP and Hap existed in the TCP/PAN fiber mats and Hap/PAN fiber mats, respectively. Although the groups of Hap can be observed in the spectra, the adsorption peaks of PAN located at 1100, 1034, 603 and 632 cm⁻¹ can be found somewhat, which interferes in the conclusion of the existence of Hap.