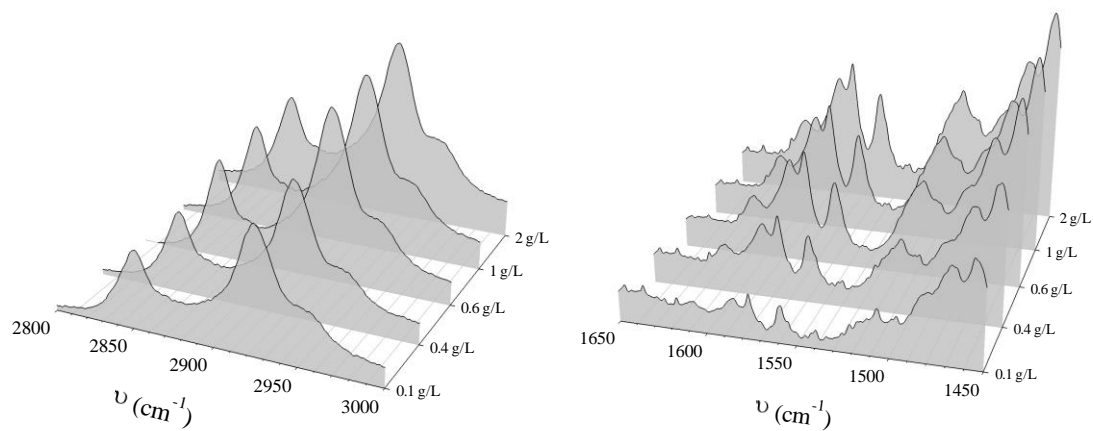
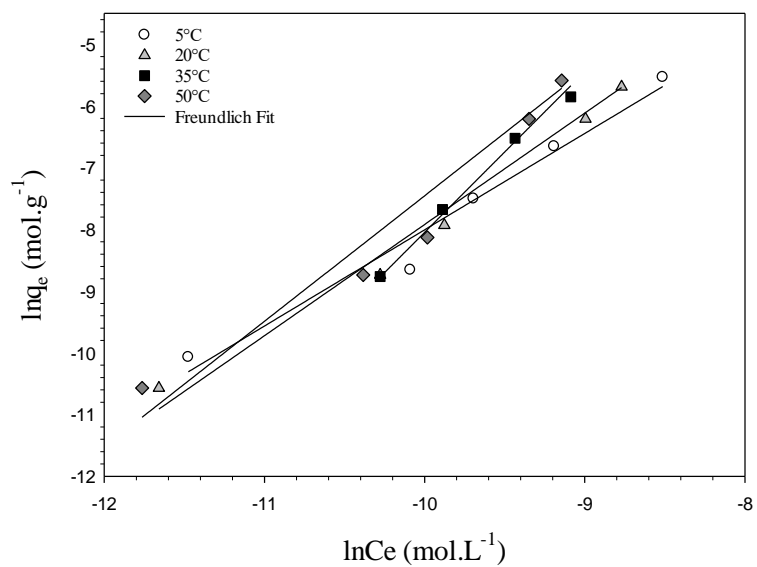


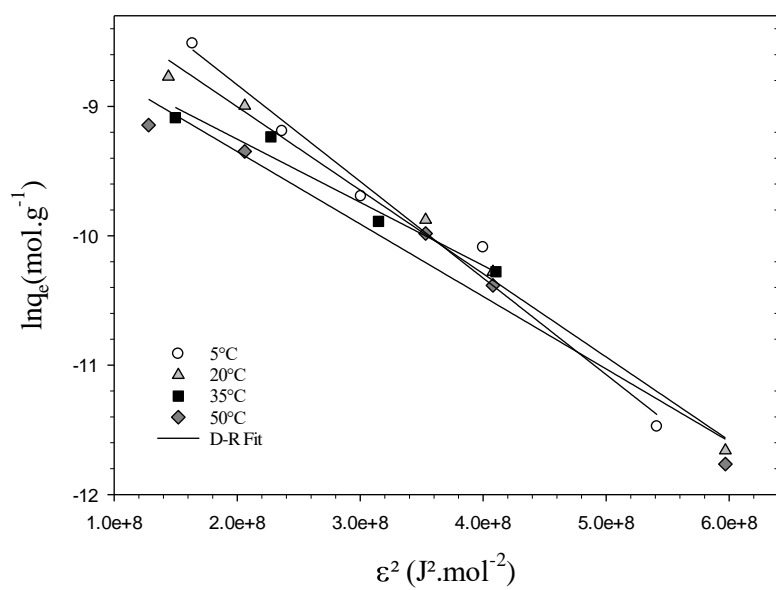
**Fig. S1:** XRD patterns for dehydrated BDTA-Mt after being in contact with diclofenac solution of 0.1, 0.6, 0.8,, 1, and 2 g L<sup>-1</sup>.



**Fig. S2:** 3D evolution of the FTIR spectra in the wavenumbers window of  $\text{CH}_2$  stretching bands for (a) BDTA-Mt organoclay in the range  $2800\text{-}3000\text{ cm}^{-1}$  and the (b)  $\text{CO}_2^-$  stretching bands of diclofenac in the range  $1450\text{-}1650\text{ cm}^{-1}$  for different starting diclofenac concentrations ( $0.1, 0.4, 0.6, 1$  and  $2\text{ g L}^{-1}$ ).



**Fig. S3:** Adsorption isotherms of Diclofenac onto a HDTMA-Mt organoclay for the temperatures of 5, 20, 35 and 50°C. The solid line represents Freundlich model fit.



**Fig. S4:** Adsorption isotherms of Diclofenac onto a HDTMA-MT organoclay for the temperatures of 5, 20, 35 and 50°C. The solid line represents D-R model fit.