**Photocatalytic performance of N-doped TiO2nano-SiO2-HY nanocomposites immobilized over cotton fabrics**

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**Fig. S1.** FTIR spectrum of HY zeolite and some prepared composites. The dashed violet line denotes the wavenumber used to calculate the framework silicon/aluminium ratio of HY.



**Fig. S2.** X-ray diffraction pattern of HY zeolite compared to the patterns of other composites. The three specified peaks refer to those used to calculate the silicon/aluminium ratio of HY.

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**Fig. S3.** Histogram of TiO2 nanoparticles concerning it size distribution. This histogram was obtained from the enlarged SEM micrograph shown in Fig. 2(d).

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