Exceptional thermal stability of industrially-important enzymes by entrapment within nano-boehmite derived alumina

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Electronic Supplementary Information

Additional HR-SEM images of synthesized materials

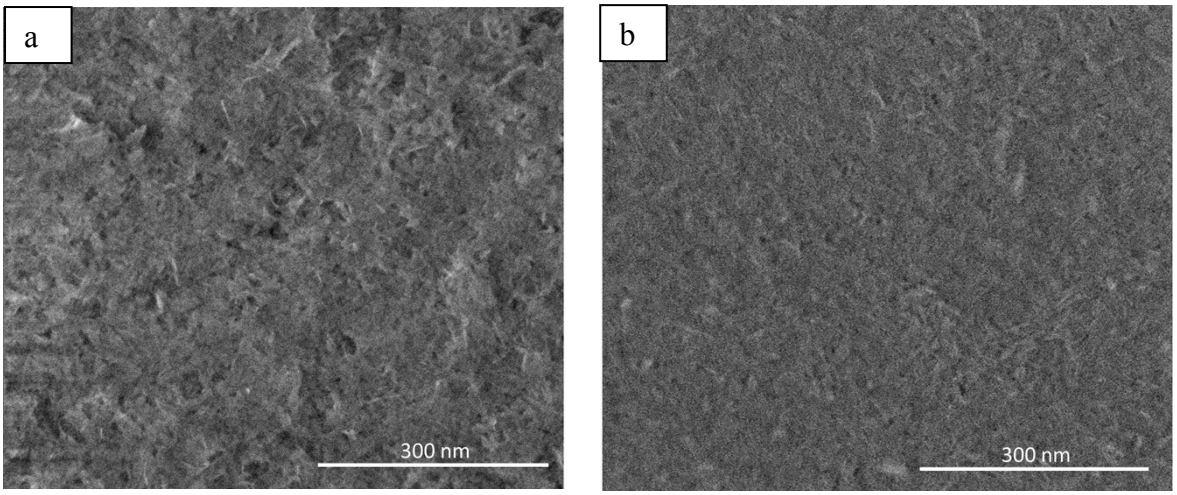

Figure 1S. HR-SEM images of the alumina (a) and of XY@alumina (b).

XRD data of the synthesized materials

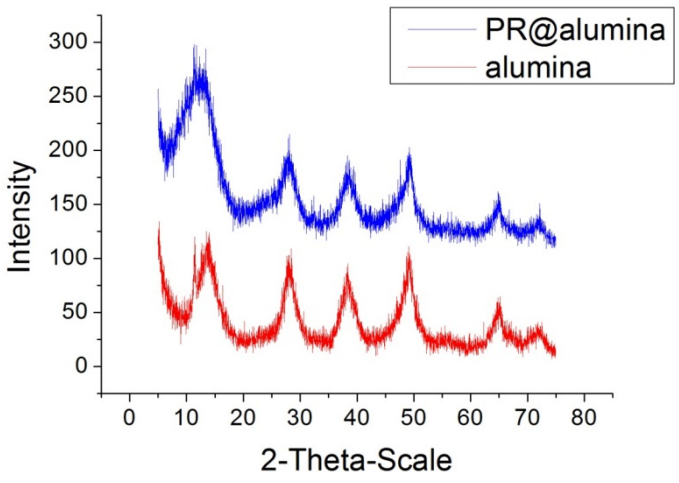

Figure 2S. XRD patterns of synthesized alumina and of PR@alumina. The typical boehmite structure is seen both for pure alumina and for PR@alumina.

TGA of alumina and of XY@alumina

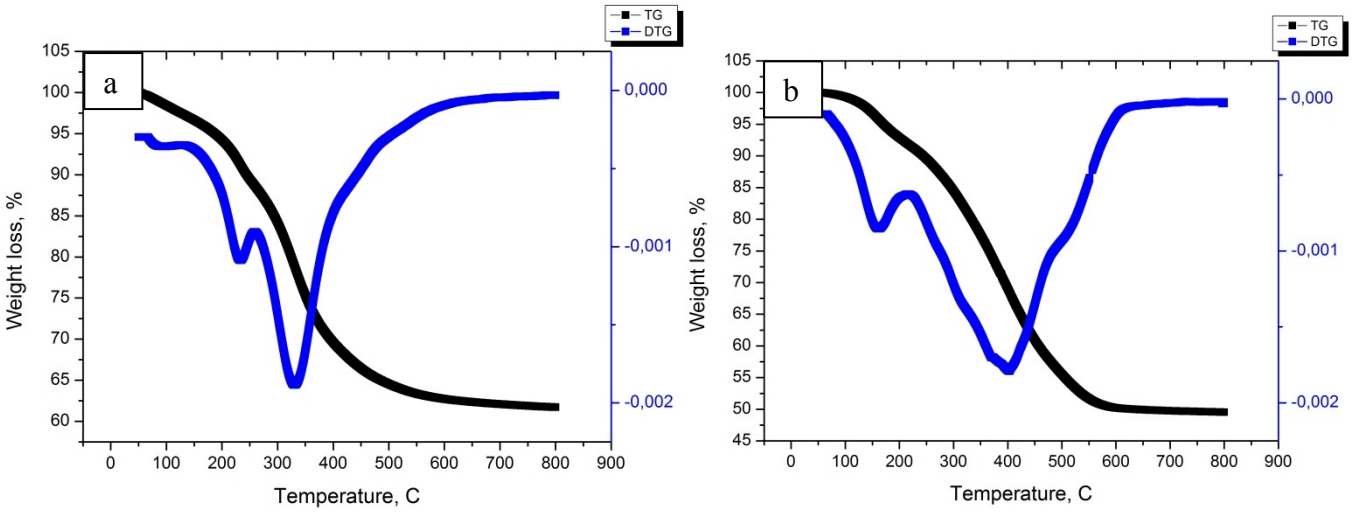

Figure 3S. Thermal gravimetric analysis of alumina (a) and of XY@alumina (b). In the temperature range up to 200 ºC physically related water evaporates. Chemical decomposition of boehmite matrix to gamma-alumina starts from 200 degrees with maximum at 330ºC. Note that the entrapment of XY shifts that temperature to 400ºC.