

Solar Photocatalytic Activity of Ba Doped ZnO Nanoparticles: The Role of Surface Hydrophilicity

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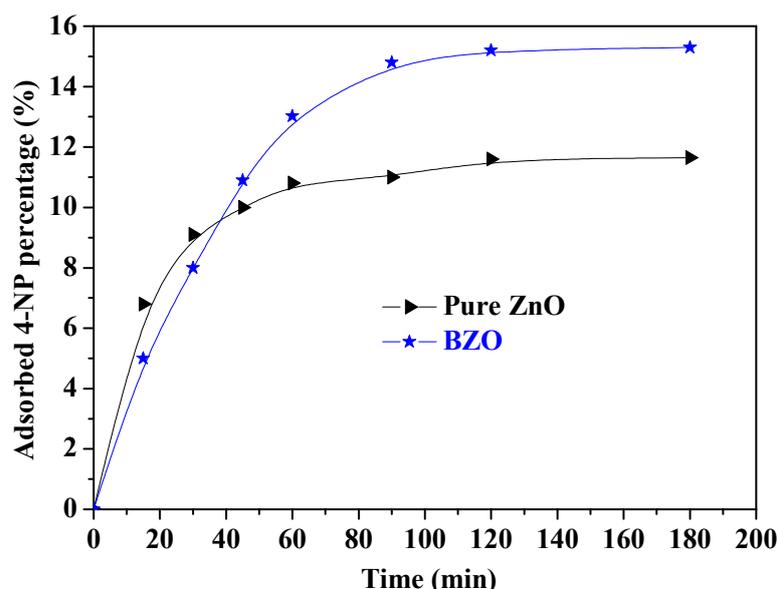


Figure S1: 4-NP dark adsorption kinetics using bare ZnO (▴) and BZO (★) samples.

Under dark conditions, the adsorbed quantity of 4-NP was not significant for both photocatalysts. About 11 % of the 4-NP was adsorbed in the presence of ZnO while BZO was capable to adsorb 15 %. These percentages are equivalent to adsorbed quantities equal to 28.31 mg·g⁻¹ and to 39.74 mg·g⁻¹, respectively. Notably, the larger SSA of BZO sample (about 14 times larger than ZnO) do not significantly affect the 4-NP adsorption in the dark.