

## SUPPLEMENTARY MATERIAL

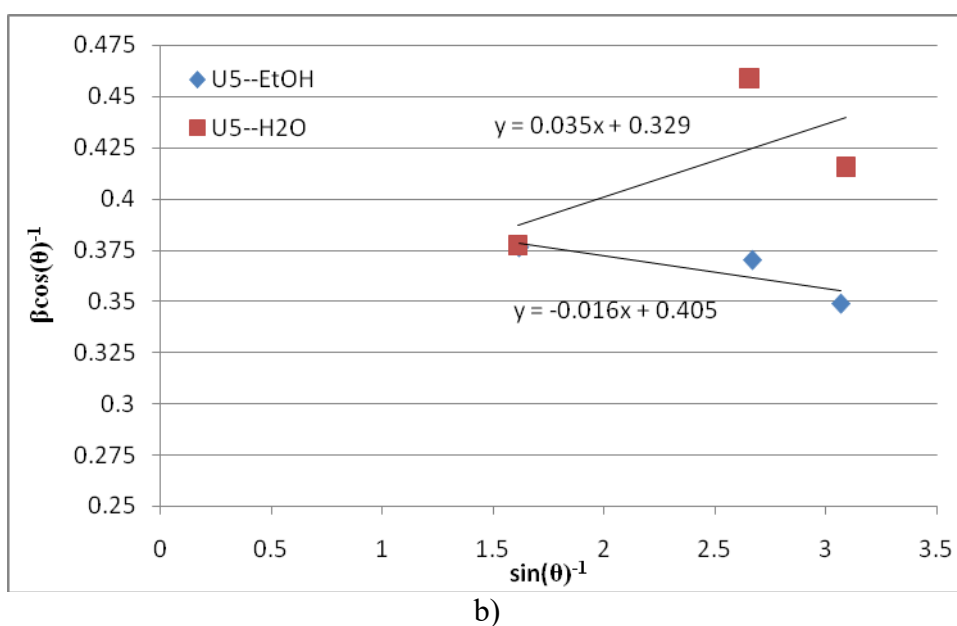
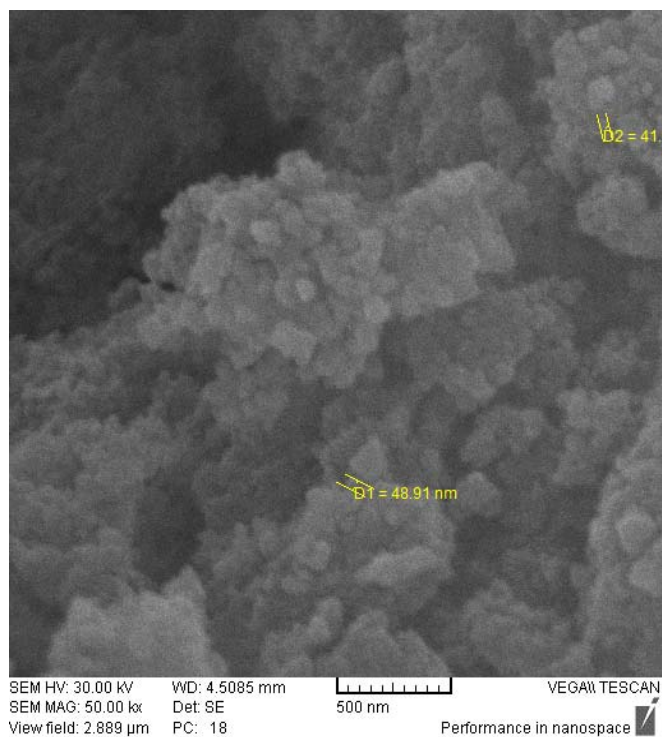
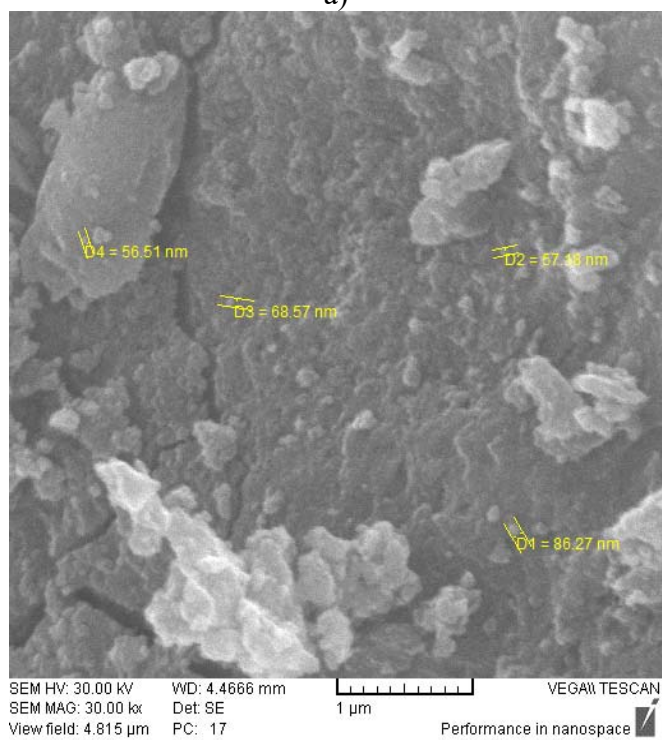
**Synthesis, Characterization, and Photocatalytic Behavior of Mesoporous ZnS Nanoparticles Prepared Using By-Product Templating**H. B. Motejadded Emrooz,<sup>A,C</sup> A. R. Rahmani,<sup>A</sup> and F. J. Gotor<sup>B</sup><sup>A</sup>Iran University of Science and Technology, School of New Technologies, Tehran, Iran.<sup>B</sup>Instituto de Ciencia de Materiales de Sevilla (CSIC-US), Americo Vespucio 49, Sevilla 41092, Spain.<sup>C</sup>Corresponding author. Email: [Banna@iust.ac.ir](mailto:Banna@iust.ac.ir)

Fig S-1 Crystallite sizes and lattice strains of the nanoparticles synthesized in the two different media



a)



b)

Fig S-2 SEM micrograph of the synthesized nanoparticles a) U5---EtOH, b) U5---H<sub>2</sub>O