

Supplementary Materials

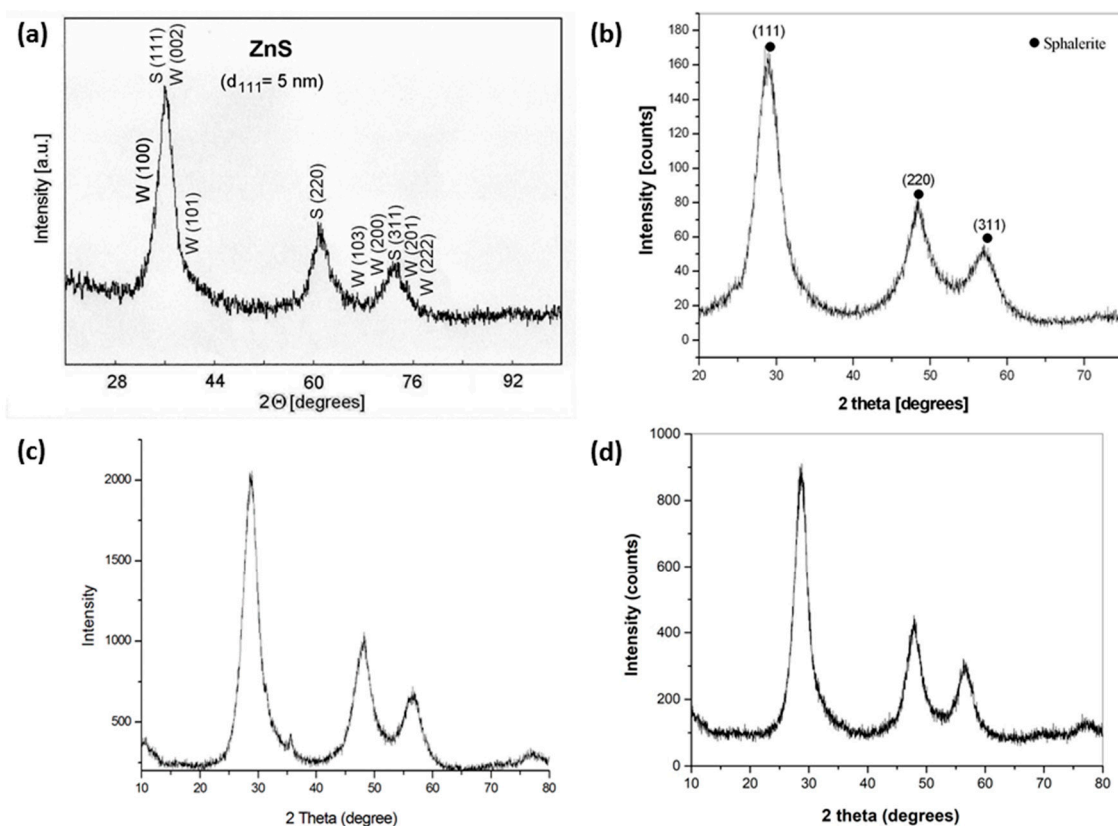


Figure S1. XRD patterns of mechanochemically synthesized ZnS nanoparticles: (a) the value of 5 nm was calculated by Scherrer formula. Reproduced, with permission, from Ref. [8]; (b) the values of 1.8 nm was calculated by surface Warren-Averbach method and 3.7 nm by volume Williamson Hall method. Reproduced, with permission, from Ref. [41]; (c) the value of 3.4 nm was calculated by Rietveld analysis. Reproduced, with permission, from Ref. [42]; (d) the value of 2.5 ± 0.5 nm was calculated by Rietveld analysis. Reproduced, with permission, from Ref. [43].

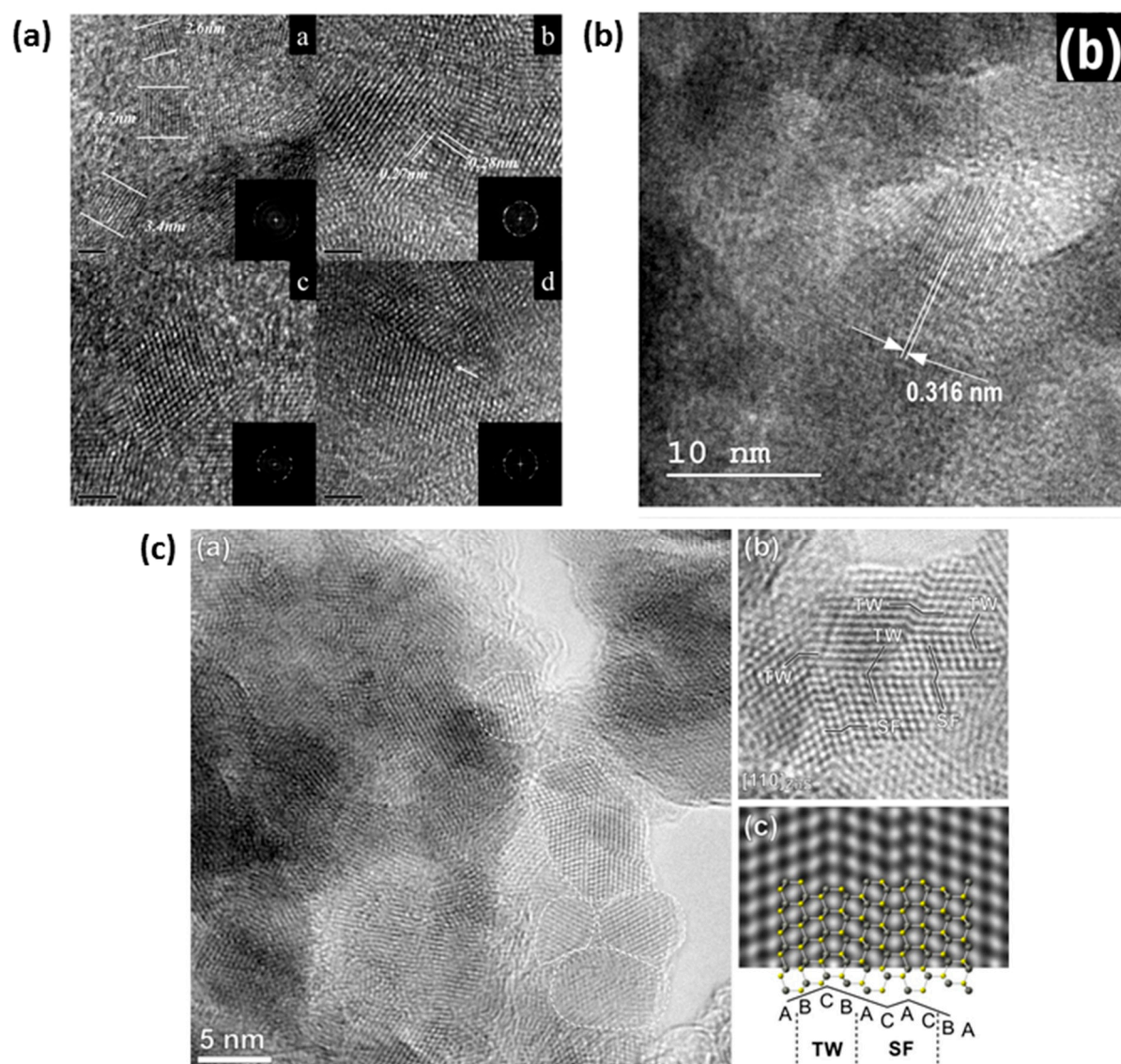


Figure S2. HRTEM patterns of mechanochemically synthesized ZnS nanoparticles. Identification of nanoparticles with sizes around: (a) 3 nm. Reproduced, with permission, from Ref. [41]; (b) 7.3 nm. Reproduced, with permission, from Ref. [42]; (c) 10 nm Reproduced, with permission, from Ref. [43].

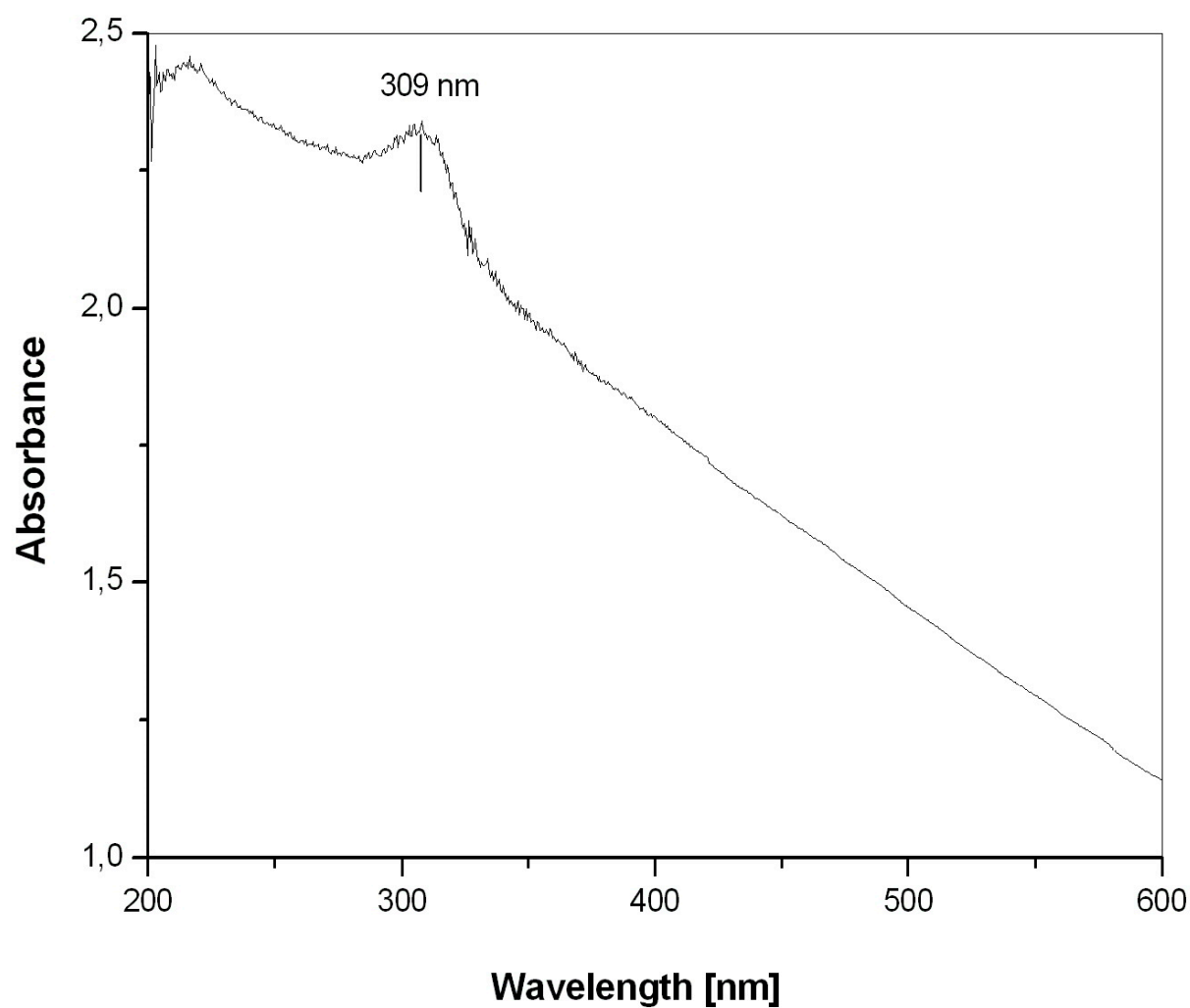


Figure S3. UV-Vis spectrum of mechanochemically synthesized ZnS nanoparticles. Reproduced, with permission, from Ref. [41].

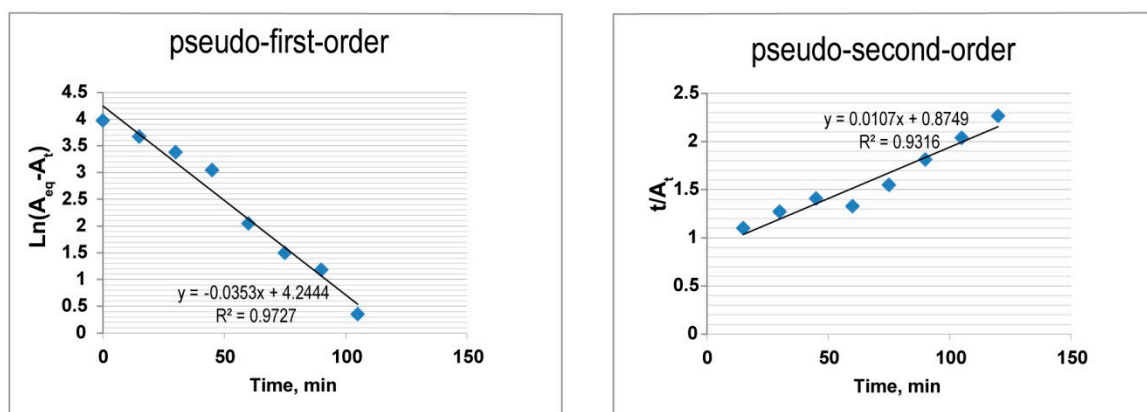


Figure S4. Linearized plots for modeling adsorption kinetics.