

Unraveling the Chemistry of PVP in Engineering CdS Nanoflowers for Sunlight-Driven Photocatalysis

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EDS spectrum

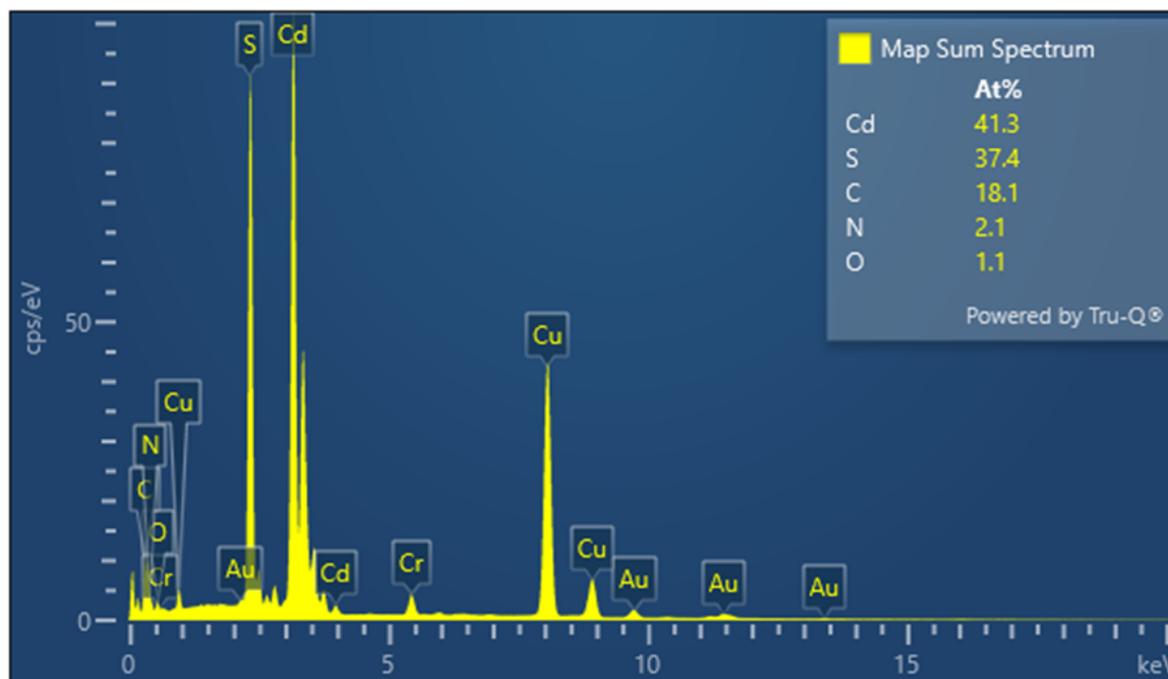


Figure S1. EDS mapping spectrum of sample CP10 having the composition percentage of different elements.

The Au, Cu, and Cr peaks observed in the spectra are attributed to spurious X-rays generated by the instrumentation itself. These elements are commonly present in components of the sample holder or internal parts of the analytical system (such as the anode or shielding materials), and their signals can appear as background artifacts unrelated to the actual sample composition.

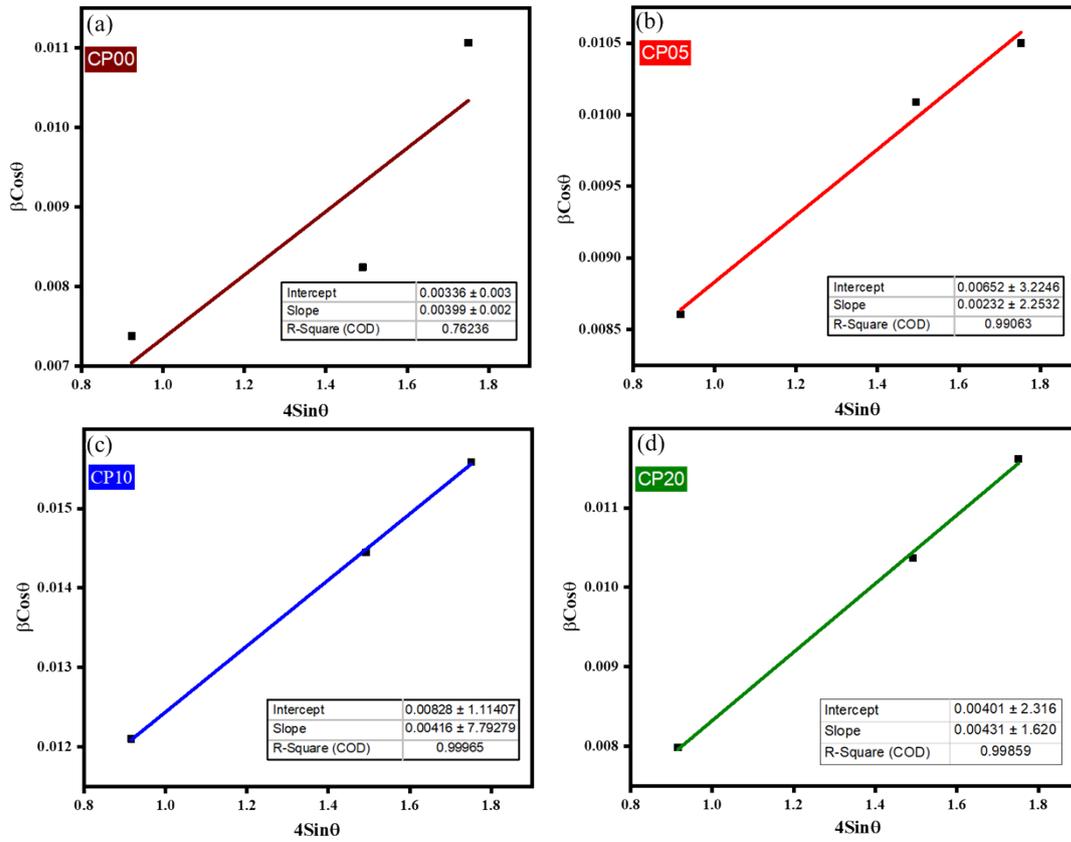


Figure S2. The Williamson–Hall (W-H) plot of all CdS samples **(a)** CP00, **(b)** CP05, **(c)** CP10 and **(d)** CP20.

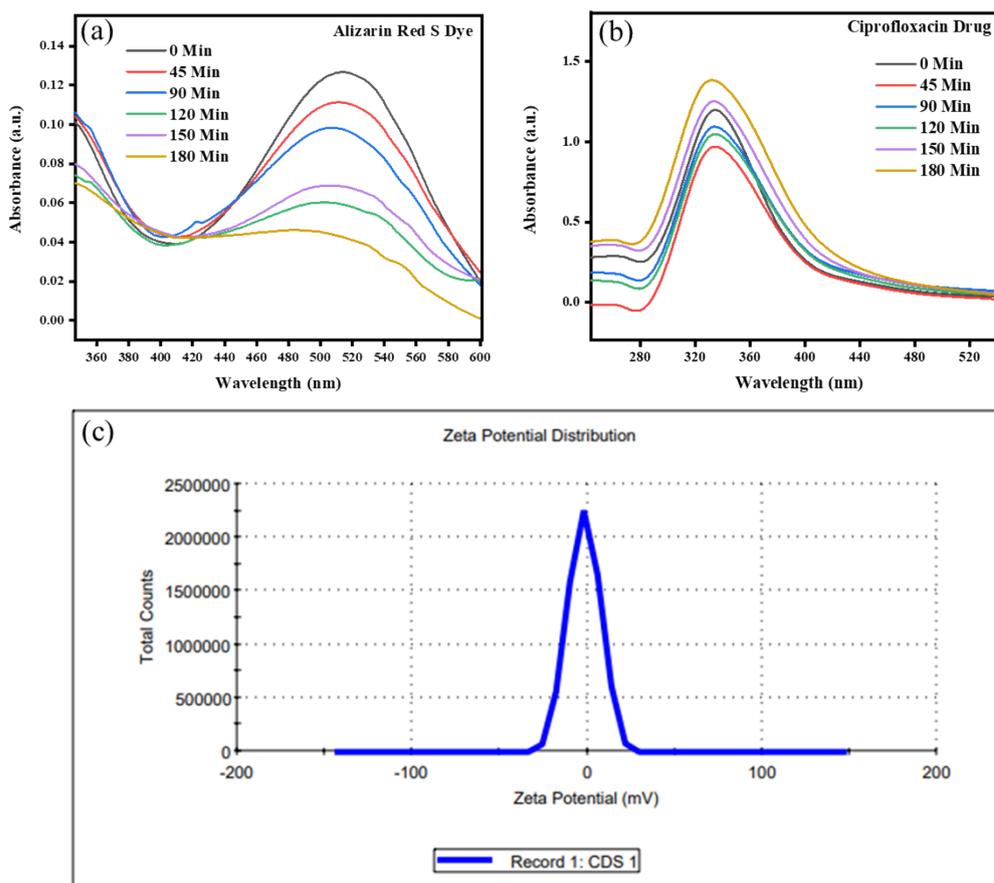


Figure S3. (a) Photocatalytic degradation of alizarin red S with CP10 sample. (b) Photocatalytic degradation of ciprofloxacin with CP10 sample. (c) Zeta potential distribution of sample CP10.