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## **Investigation of cytochrome P450-modified cadmium sulfide quantum dots as photocatalysts**

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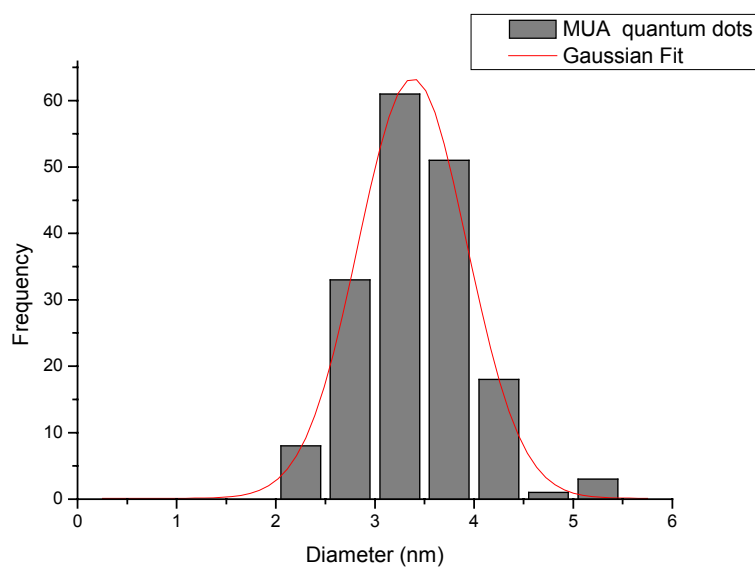
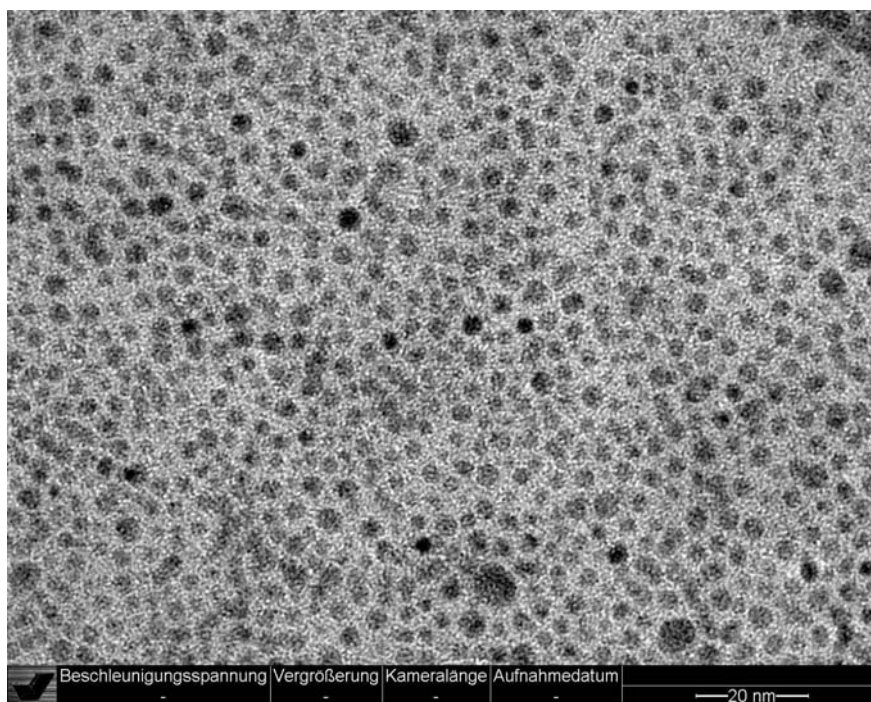
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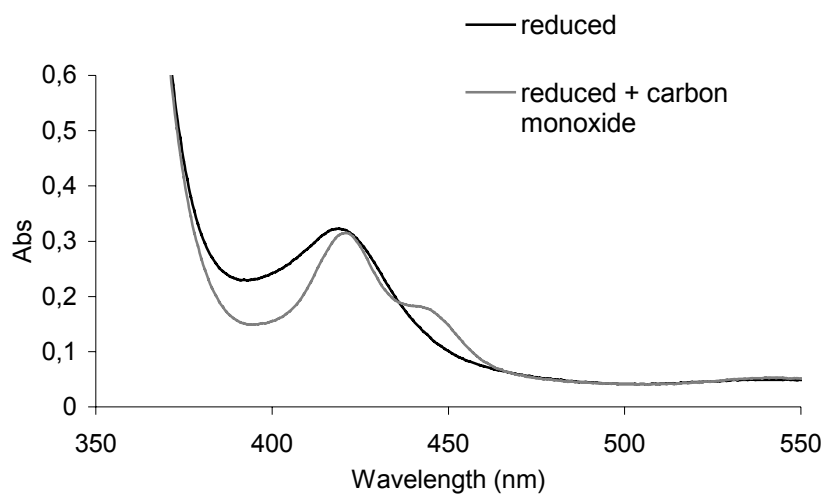
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## TEM micrograph of mercaptoacetic acid functionalized CdS quantum dots and statistical analysis of the QDs diameter



The QDs have a diameter of  $3.4 \pm 0.6$  nm ( 175 QDs measured)

## Absorption spectra of reduced CYP152A1 before and after bubbling carbon monoxide



## Light-switchable activity of the nano hybrids containing 10nM CYP152A1 and a QD: CYP152A1 ratio of 200:1

