

TOC Summary and Graphic Template for Chemistry of Materials

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Haibing Li* and Cuiping Han

Chem. Mater. **2008**,

Sonochemical synthesis of cyclodextrin-coated quantum dots for optical detection of pollutant phenols in water

A simple, rapid sonochemical procedure for the preparation of highly fluorescent and water-soluble CdSe/ZnS quantum dots (QDs) using α -, β -, and γ -cyclodextrin (CD) as surface-coating. The resulting QDs allow highly sensitive determination of phenols by changing CD coating *via* fluorescence intensity quenching.

