

CdS core nanocrystals

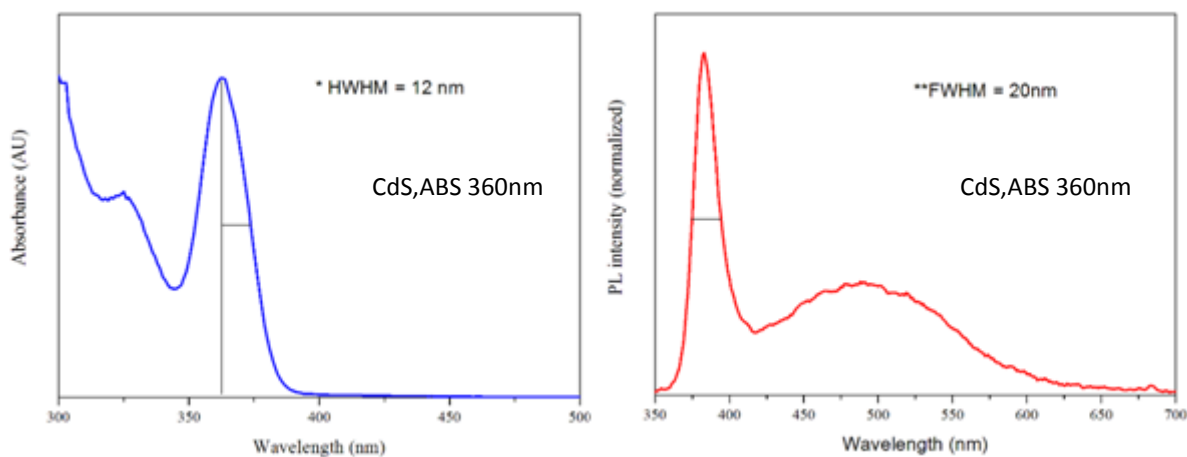
Description: Cadmium Sulfide (CdS) nanocrystals are single crystal semiconductor nanoparticles, also known as quantum dots. The uniqueness of these quantum dots comes from their size dependent optical/electronic properties and flexible processability. The size of these quantum dots ranges from 2 to 7 nanometers with their optical properties spanning the Uv to blue spectral window. Typical CdS quantum dots are inorganic semiconductors with an outer surface coating of organic ligands. These ligands allow for the stability, solubility, and processability of these nanocrystals in solution. Unlike organic dyes, quantum dots have a broad absorption with finite emission positions. This allows the quantum dots to be excited over a broad range while emitting at a finite position, yielding true color emission. The emission potential of the quantum dots is dependent upon the quality and size distribution of the nanocrystals in solution.

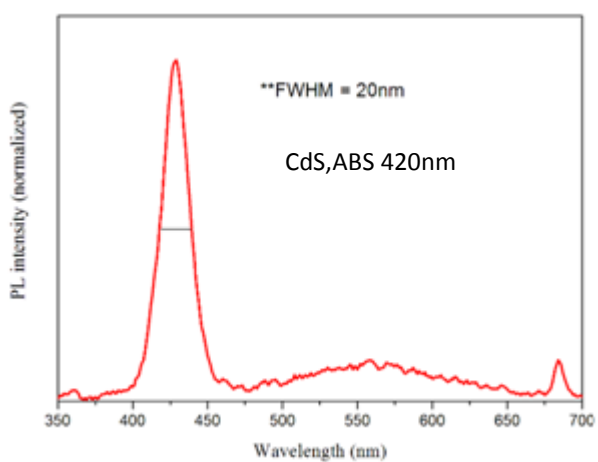
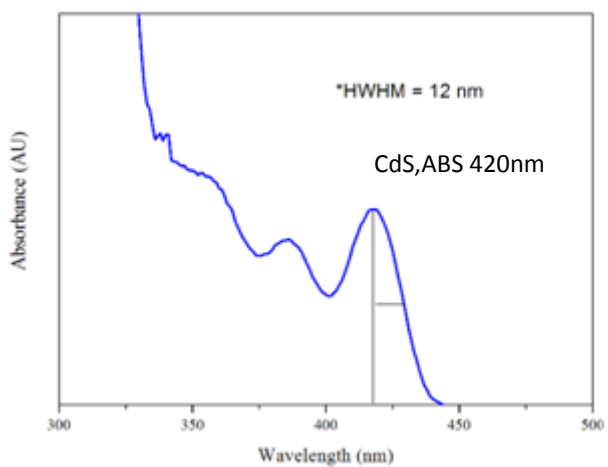
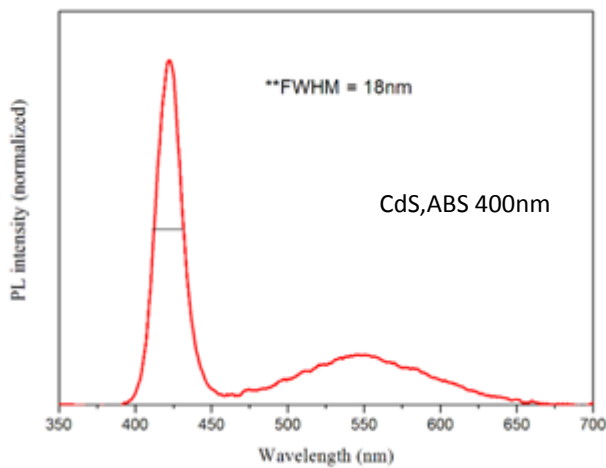
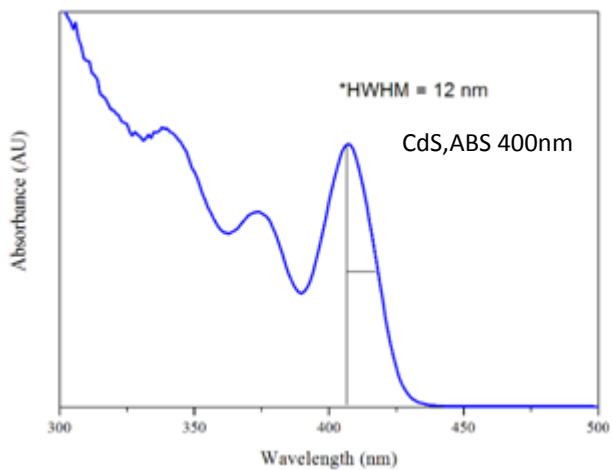
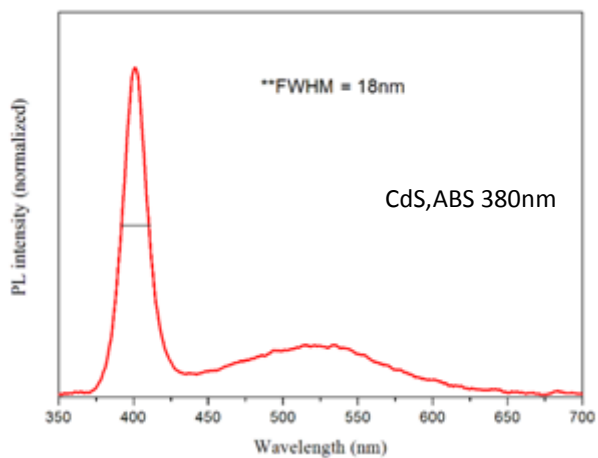
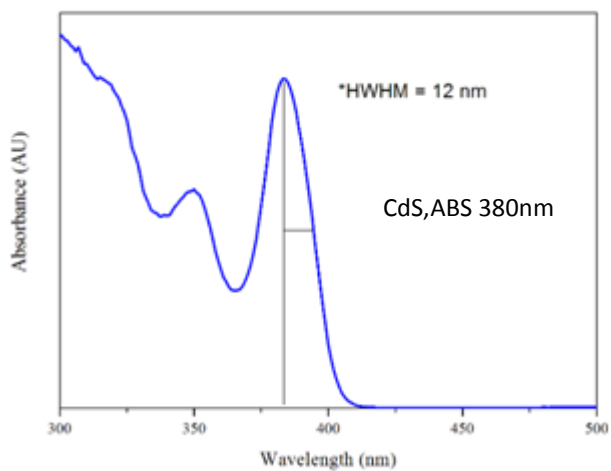
Product name: CdS core nanocrystals
Catalog number: C01-C06
Solvent: Non-Polar Solvent, typically toluene
Surface ligand: Oleic Acid
Storage: 4-25⁰C; Do not freeze
Shelf life: 12 months

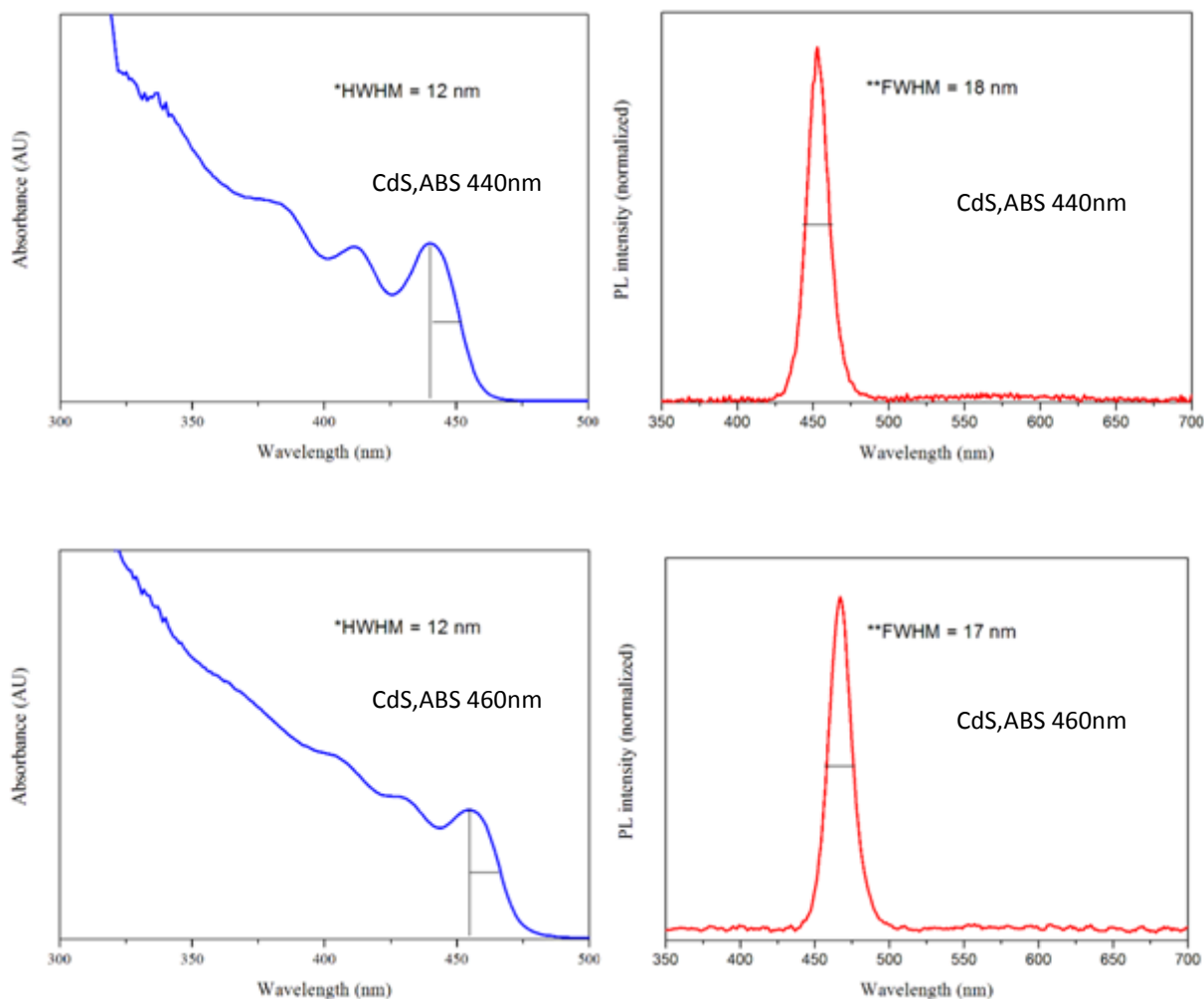
Product ID	Absorption Peak(nm)	Absorption Peak Variation(nm)	HWHM(nm) *
C01	360	±10	<15
C02	380	±10	<15
C03	400	±10	<15
C04	420	±10	<15
C05	440	±10	<15
C06	460	±10	<15

*HWHM means Half Width of Half Maximum;

Spectra:







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Disclaimer:

There is no obligation to replace products as the result of (i)improper storage and handling of the product,(ii)use of the products in a manner not designed for,(iii)accident,disaster or event of force majeure.

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