

CuInS/ZnS Water Soluble Core/shell Nanocrystals

Description: Water soluble CuInS/ZnS nanocrystal is a group of water soluble alloy CuInS/ZnS core/shell quantum dots with carboxylate ligand such as 3-Mercaptopropionic acid. The reactive group is carboxylic acid. The size of the nanocrystals is about 3nm by the TEM. Water soluble CuInS/ZnS is stable in most buffer solution with the pH range of 6~9.

Product name: CuInS/ZnS water soluble core/shell nanocrystals
Catalog number: G51-G57
Solvent: DI H₂O
Reactive group: Carboxylic acid
Buffer Stability: Borate, Tris, HEPES, PBS, MES etc
pH stability: 6~9
Storage: 4-25 °C; Do not freeze
Shelf life: 6 months

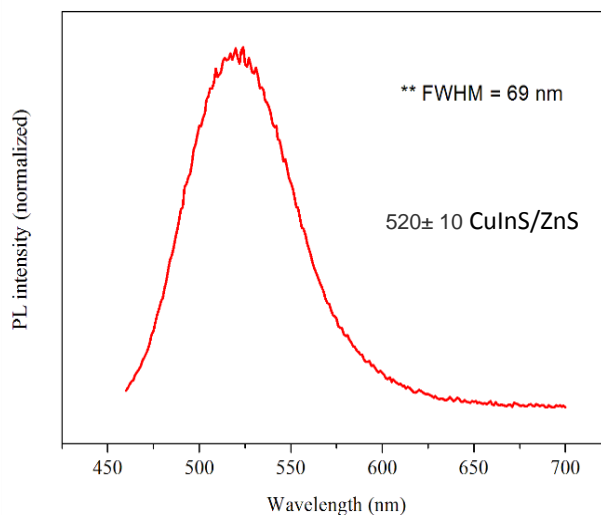
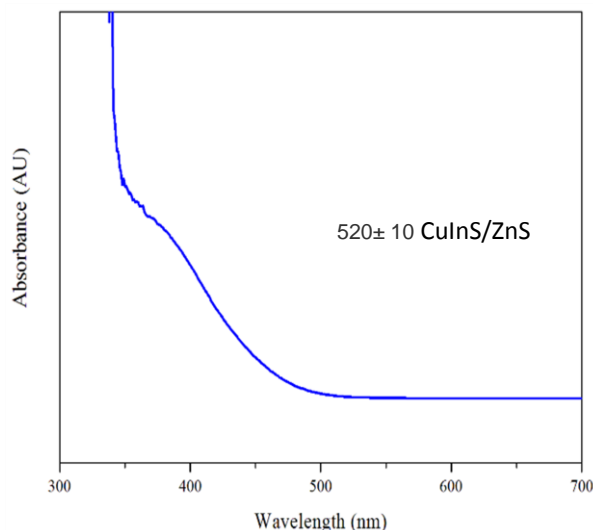
Emission peak/nm	FWHM*/nm	Quantum yield**	Structure	Reactive group
520±10	<100	>30%	CuInS/ZnS /MPA***	Carboxylic acid
550±10	<100	>40%	CuInS/ZnS /MPA	Carboxylic acid
580±10	<100	>40%	CuInS/ZnS /MPA	Carboxylic acid
610±10	<100	>40%	CuInS/ZnS /MPA	Carboxylic acid
650±10	<100	>40%	CuInS/ZnS /MPA	Carboxylic acid
700±10	<120	>40%	CuInS/ZnS /MPA	Carboxylic acid
750±10	<120	>30%	CuInS/ZnS /MPA	Carboxylic acid

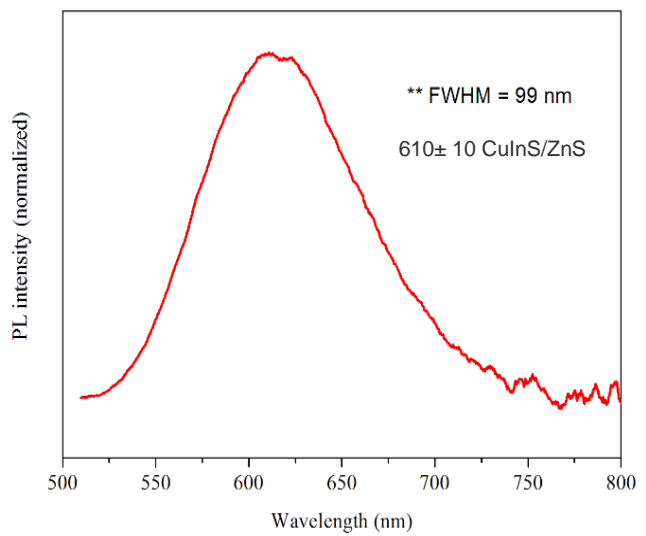
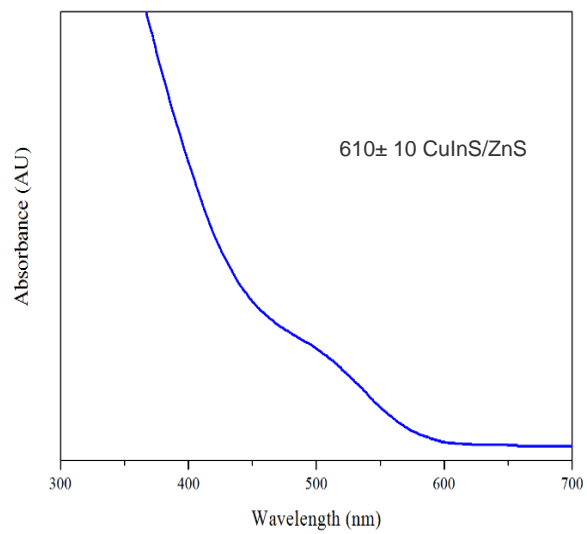
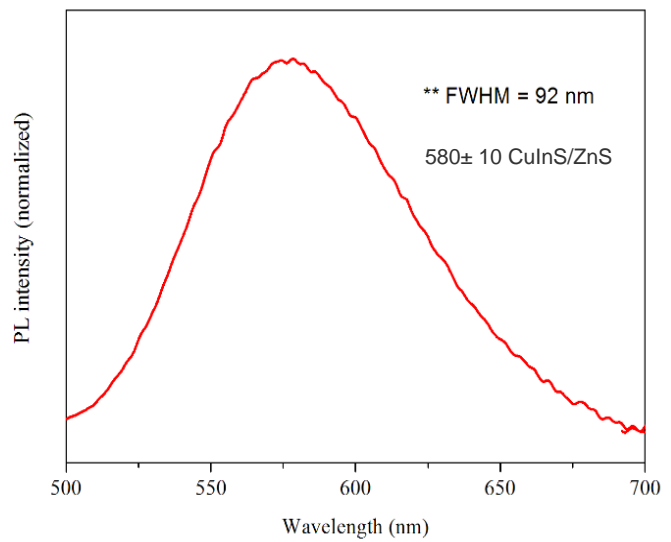
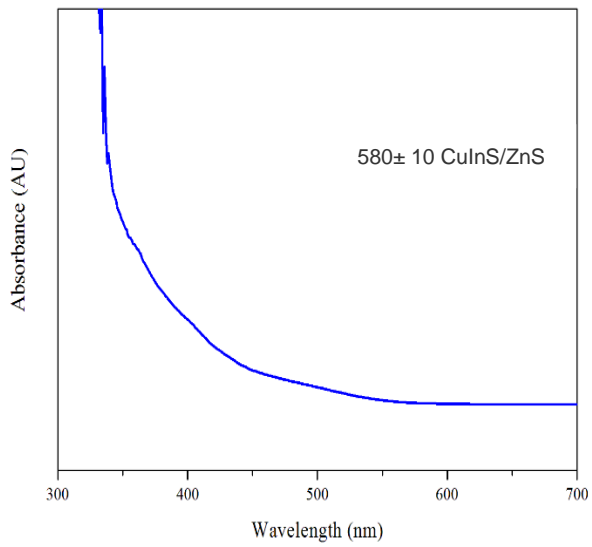
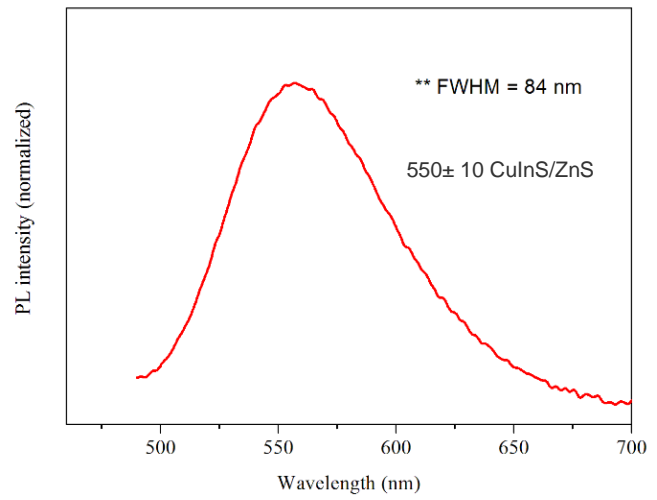
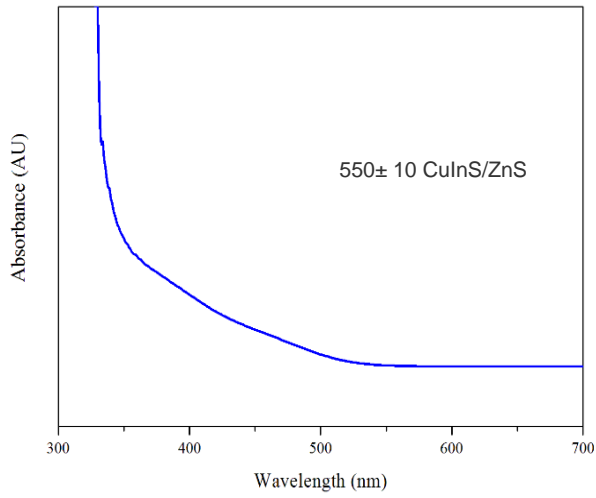
* FWHM means Full Width of Half Maximum

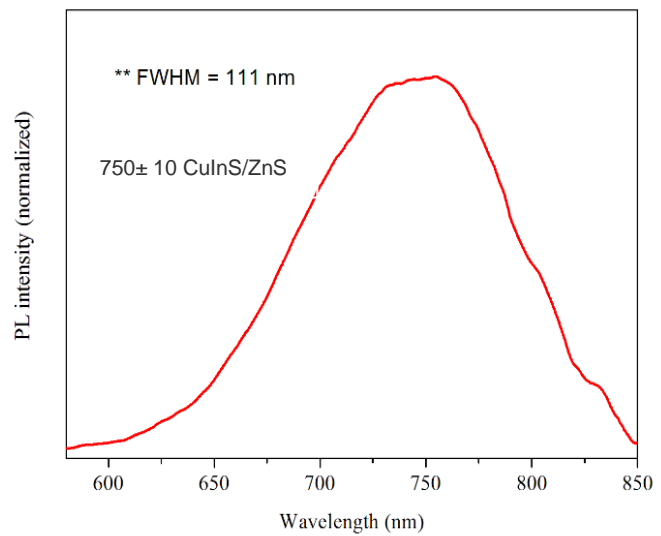
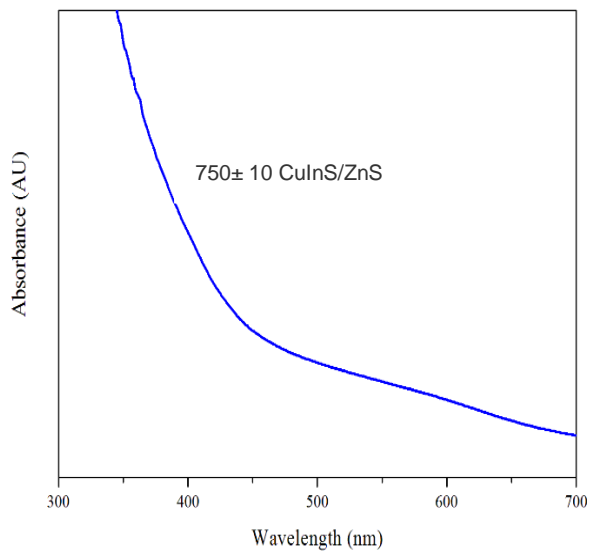
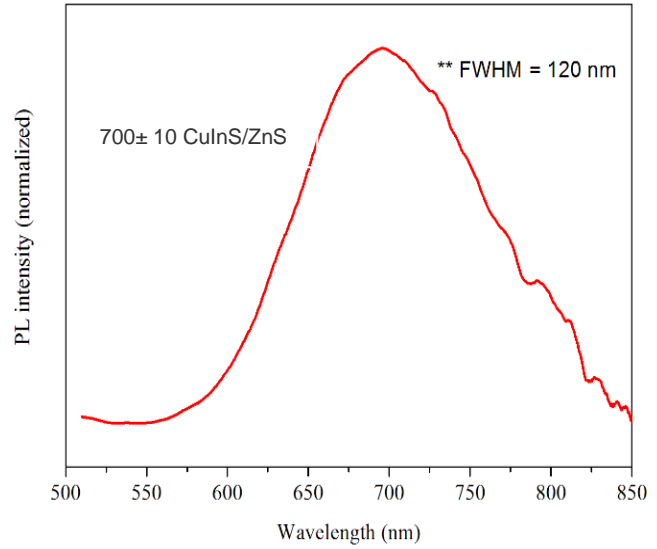
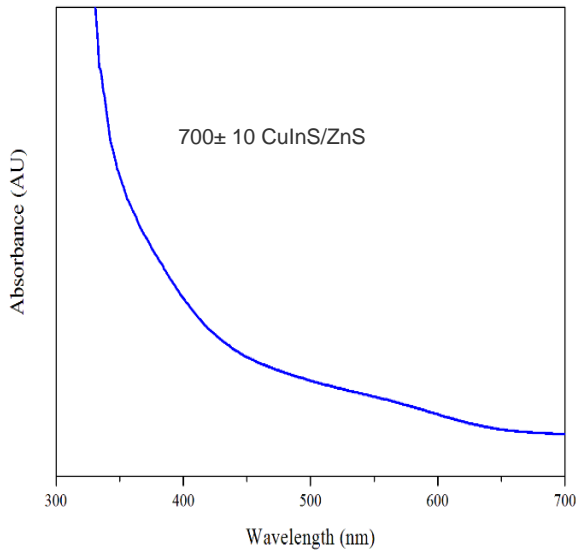
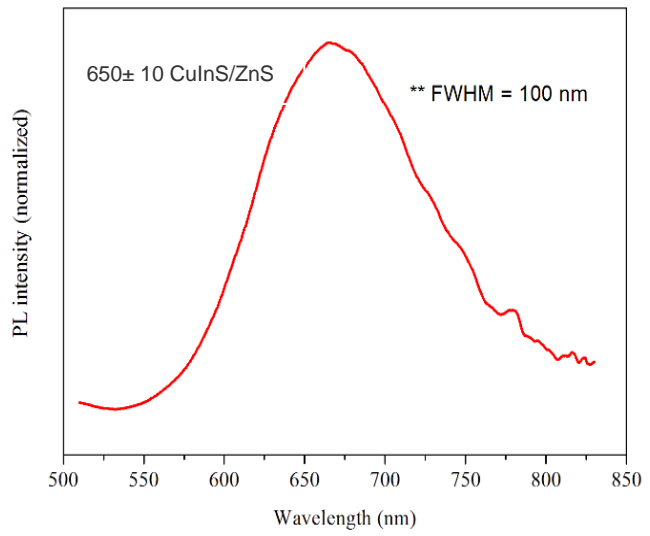
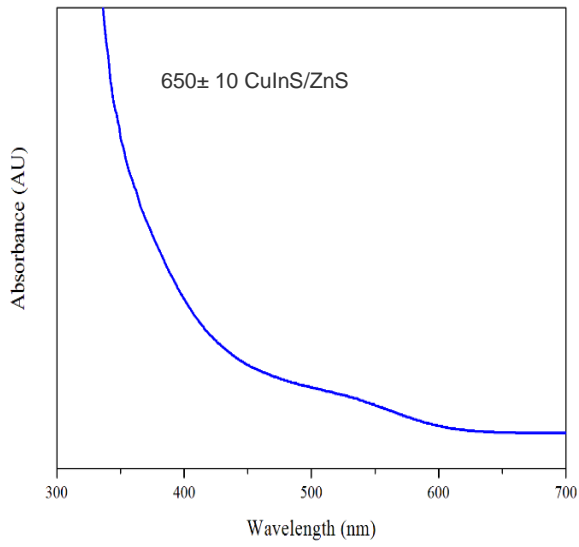
** Quantum yield was measured by integrating method

***MPA represent for 3-Mercaptopropionic acid

Spectra:







Related NNCrystal Products

Visit our web site for more information related to this product : www.nncrystal.com

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.

The Hangzhou Najing Technology Co.ltd products are supplied for scientific technology research use only, not for drink ,food or additives. Do not use the products and materials in the human body or in contact with internal body fluids or tissues.

© 2012 Hangzhou Najing Technology Co.ltd. All rights reserved.