

CuInS/ZnS Core/shell Nanocrystals

Description: CuInS/ZnS nanocrystal is a group of alloy CuInS/ZnS core/shell quantum dots. CuInS/ZnS quantum dots possess decent quantum yield, excellent long-term stability, and without the toxicity and environmental hazards. As quantum dot technology continues to grow and advance, the use of cadmium materials will be phased out, and the new CIS particles offer an excellent alternative for use in biomedicine, solar cell development and LED lighting applications.

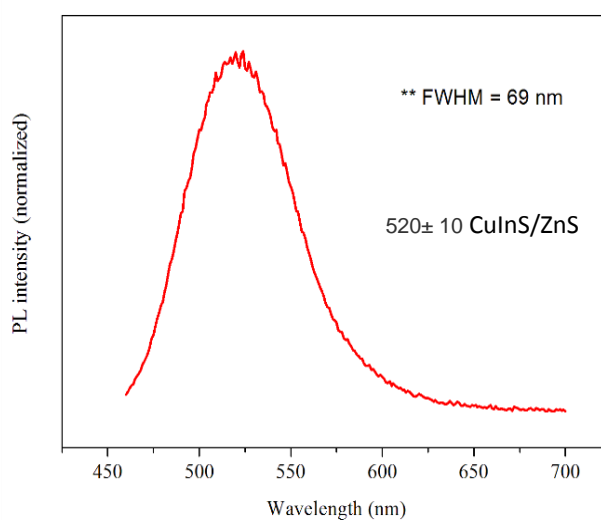
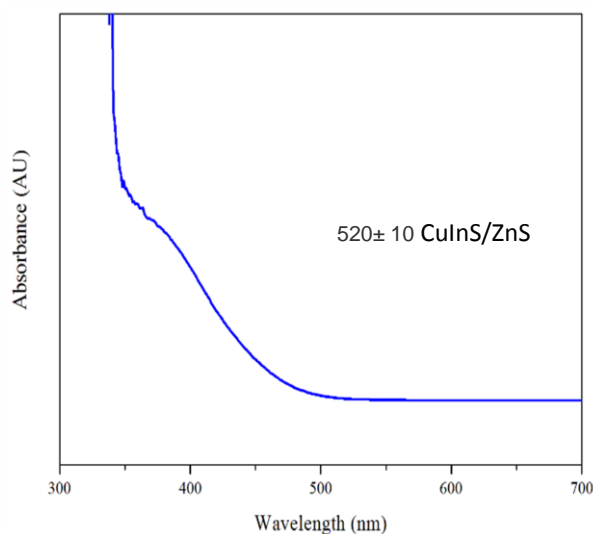
Product name: CuInS/ZnS core/shell nanocrystals
Catalog number: G51-G57
Solvent: Non-Polar Solvent, typically toluene
Surface ligand: Alkyl Amine
Storage: 4-25⁰C; Do not freeze
Shelf life: 12 months

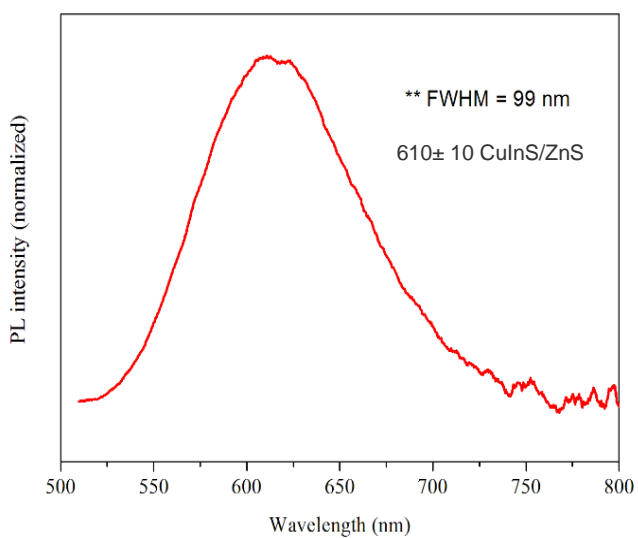
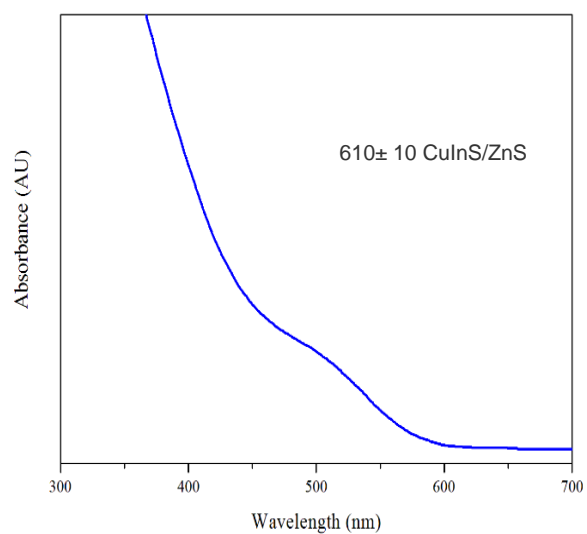
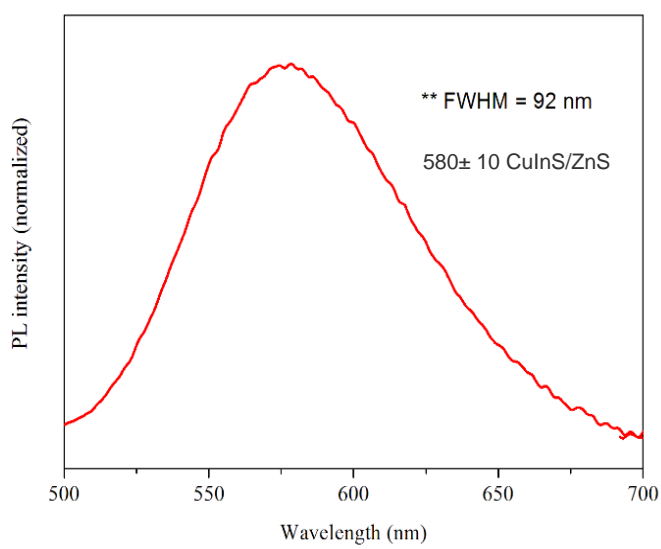
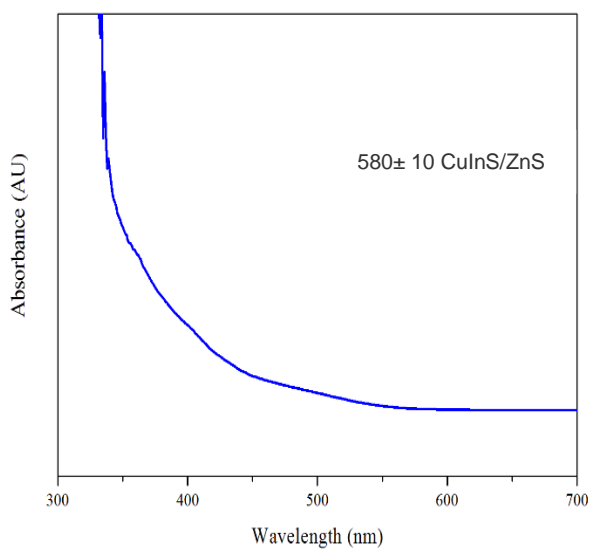
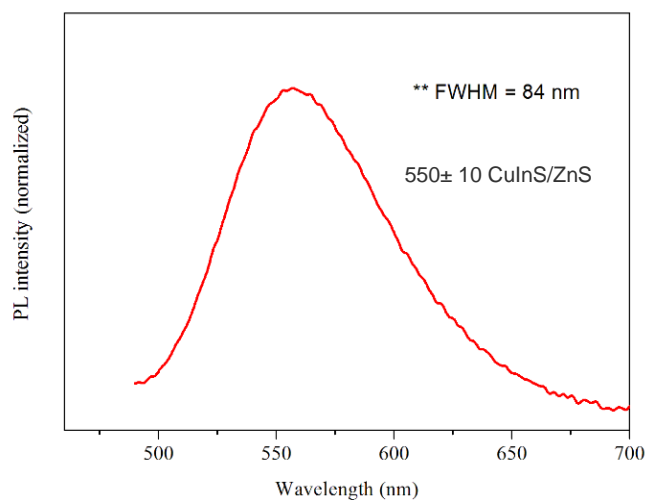
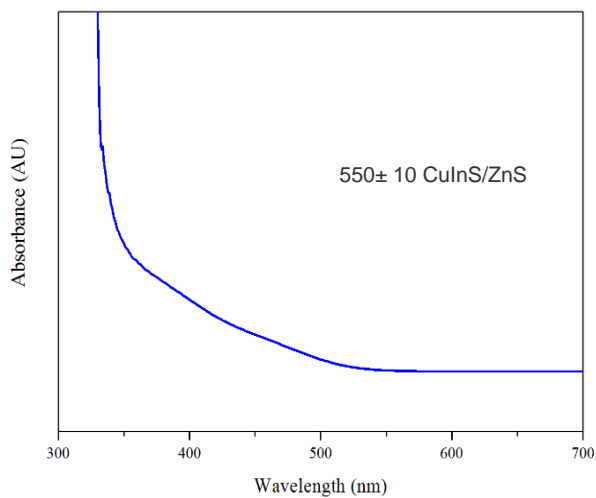
Emission peak/nm	FWHM*/nm	Quantum yield**	Structure
520±10	<100	>40%	CuInS/ZnS / Alkyl Amine
550±10	<100	>50%	CuInS/ZnS / Alkyl Amine
580±10	<100	>50%	CuInS/ZnS / Alkyl Amine
610±10	<100	>50%	CuInS/ZnS / Alkyl Amine
650±10	<100	>50%	CuInS/ZnS / Alkyl Amine
700±10	<120	>50%	CuInS/ZnS / Alkyl Amine
750±10	<120	>40%	CuInS/ZnS / Alkyl Amine

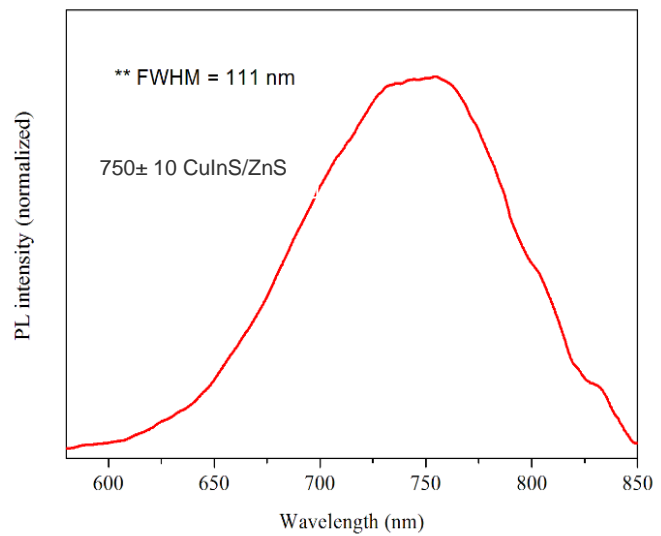
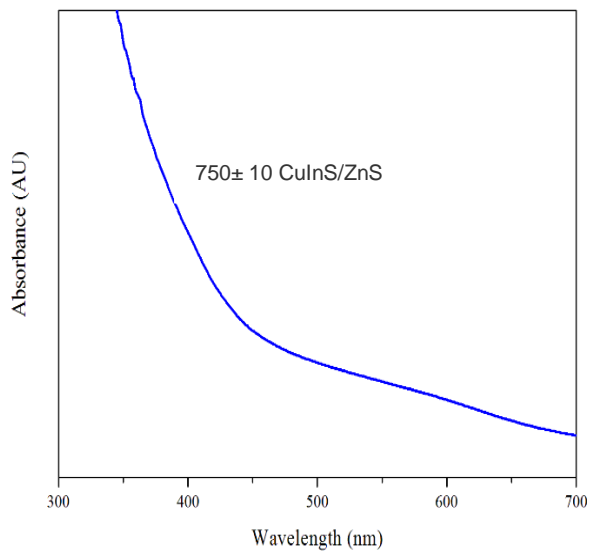
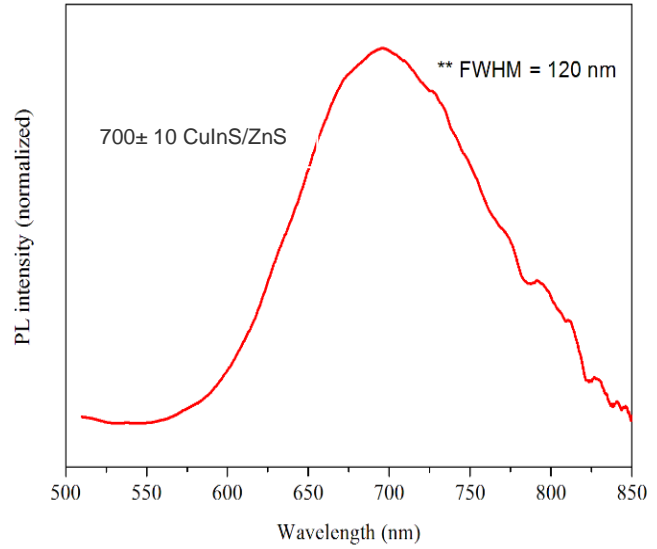
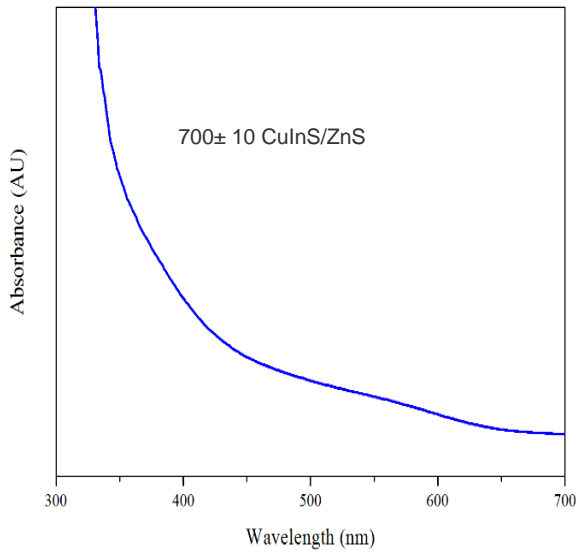
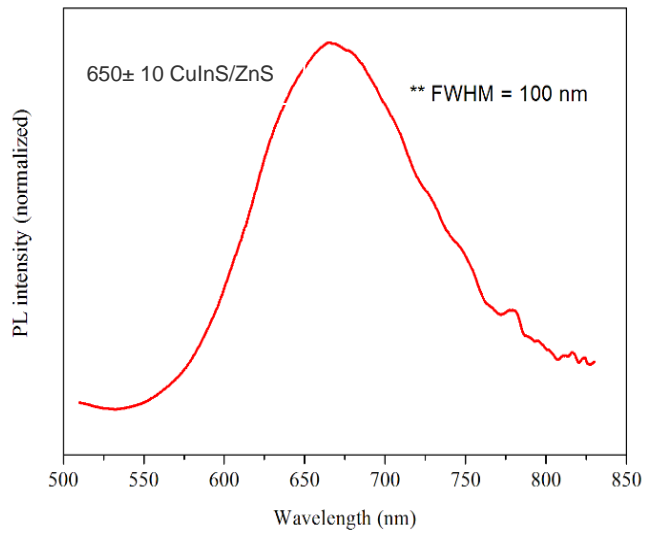
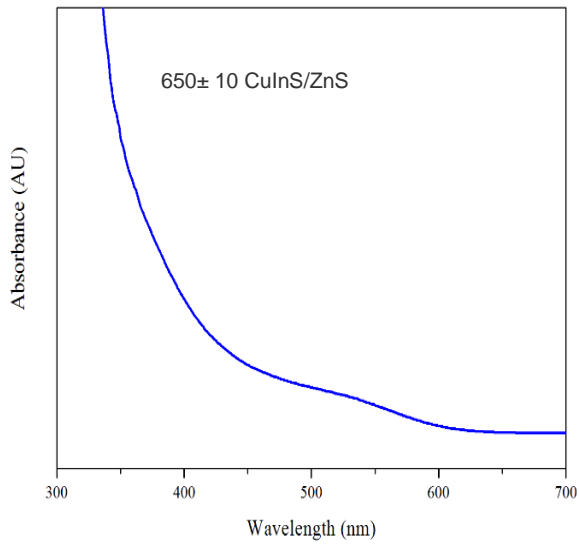
* FWHM means Full Width of Half Maximum

** Quantum yield was measured by integrating method

Spectra:







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