

NS6130-12-000586

Cadmium Tellurium Cadmium Sulfide

Core Shell Nanoparticles

Quick Facts

Product	:	Cadmium Tellurium/Cadmium Sulfide Core Shell
Stock No	:	NS6130-12-000586
Purity	:	99.9%
Molecular Formula	:	CdTe/ CdS
Form	:	Powder
APS	:	80-100nm

Purity
99.9%

Due to the tunable architecture, nanomaterials especially the core-shell nanostructures have an impact in most of the thrust research areas in recent years. Following solar energy conversion and in conjunction with the use of heterostructures, nanostructures give various compensations, one of which is the quick exciton dissociation. CdSe-CdTe heterostructures have been developed to improve the integration of CdTe and selenide components in solar cell structures for the compelling benefits of a number of these desirable features. However, a critical factor limiting conversion capability is going to be the rapid relaxing of high-energy excitons (photostimulated) into low-energy excitons, resulting in excess energy from their conversion to heat energy via photon emission. Another factor affecting performance is photoinduced excitons dissociating into holes and free electrons, rather than recombination

Applications:

- It has practical and potential applications in light emitting diodes, solar cells, nonlinear optical devices, photoelectric sensors, bioluminescence markers and so on.



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20ZICE4589C



19ZAZGO1274G



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