



Synthesis, Properties and Surface Modifications of CdSe Quantum Dots

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Application and Characterization of Organically Capped CdSe Quantum Dots | The emergence of colloidal semiconductor nanocrystals has generated great fundamental and technical interest in recent years. The size dependent emission property for Cadmium Selenide quantum dots renders it indispensable in the field of nanocrystal-based emitters used in electronic and bioelectronic devices. Investigation of these semiconductor quantum dots reveals the evolution of the electronic structure from an extended solid state to the molecular limit, an extremely important issue of basic and applied research in condensed matter physics. The work presented in this book mainly deals with the synthesis and characterization of chemically synthesized CdSe nanoparticles. A detailed investigation of the optical, structural and morphological properties of CdSe QDs and their correlation with both core and surface has been carried out. The theoretical aspect of quantum confinement and stability of CdSe quantum dots with organic and inorganic layers, are correlated to understand the surface modification aspects. Finally CdSe-polymer nanocomposites were discussed for their potential application in biomarkers and photo-electronic devices. | Format: Paperback | Language/Sprache: english | 287 gr | 220x150x10 mm | 204 pp.



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