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## **Optical Properties Of Semiconductor**

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The unique optical properties of semiconductor nanocrystals (NCs) or quantum dots (QDs) have been paid more attention over the past few decades. Specifically, the attractive photoluminescence feature of QDs derived from the irradiative recombination of excited trapped

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carriers, providing significant advantages such as optical labels for chemo/biosensing.

## **Optical Property of Semiconductor - an overview ...**

Low-dimensional semiconductor structures, often referred to as nanocrystals or quantum dots, have a



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multitude of potential applications, especially in the field of

communications. This book examines the optical properties the technological applications of these structures.

## **Optical Properties of Semiconductor Nanocrystals ...**

We present an overview of the current

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progress in the understanding of the (steady state) optical properties of

individual II-VI semiconductor nanocrystals. We begin with a presentation of the conceptual development of the theory required to model the electronic structure of these systems. This is followed b

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## Cambridge Studies In Modern Optics **Optical properties of single semiconductor nanocrystals ...**

The optical properties of nanocrystals of various semiconductor compounds grown in different glass matrices are discussed. Attention is given to studies of a fine structure of optical spectra at resonant size-selective spectroscopy for both “strong” and “weak” confinement

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regimes.

## **Growth and optical properties of semiconductor ...**

The role of free charge carriers on the optical properties of semiconductor nanocomposite is discussed. The second part of the course presents a review of the most prominent applications of

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semiconductor nanocrystals in  
optoelectronics and biomedicine.

**Optical Properties and Applications  
of Semiconductor ...**

Optical Properties of Semiconductor  
Nanocrystals S. V. Gaponenko Low-  
dimensional semiconductor structures,  
often referred to as nanocrystals or

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quantum dots, exhibit fascinating behavior and have a multitude of potential applications, especially in the field of communications.

## **Optical Properties of Semiconductor Nanocrystals | S. V ...**

Optical Properties of Semiconductor Nanocrystals. Low-dimensional

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semiconductor structures, often referred to as nanocrystals or quantum dots, exhibit fascinating behavior and have a multitude of...

## **Optical Properties of Semiconductor Nanocrystals - S. V ...**

Literature also provides examples of facet-dependent optical behaviors of

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semiconductor nanostructures, indicating that optical properties of nanoscale semiconductor materials are intrinsically facet-dependent. Some applications of semiconductor optical size and facet effects are considered.

## **Facet-Dependent Optical Properties of Semiconductor ...**



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## **Special Issue "Optical Properties of Novel Semiconductor ...**

colloidal semiconductor nanocrystals are compared. The identification of a model system of bulk-like nanocrystals with a non-standard absorption profile serves to

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resolve an ambiguity in literature concerning their characterization. The remainder of the thesis is focused on the size-dependent properties of quantum con ned CdSe colloidal nanocrys ...

## **Optical and Material Properties of Colloidal Semiconductor ...**

The unique optical properties of these

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semiconductor nanocrystals also hint at the possibility of observing changes that take place in labeled biological systems, such as living cells, over a period of time. This research was reported in the September 25, 1998 issue of the journal Science.

## **Semiconductor Nanocrystals: The**

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## Cambridge Studies In Modern Optics **Next Thing in Fluorescent ...**

Abstract (summary): This thesis presents an exploration of the photophysics of colloidal semiconductor nanocrystals using both linear and non-linear optical measurement techniques. These optical methodologies are used to follow population dynamics in both singly and multiply excited nanocrystal systems as

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well as determine material properties of the ensemble.

## **Optical and Material Properties of Colloidal Semiconductor ...**

3.3.2 Optical properties: absorption, photoluminescence, quantum yields and exciton lifetimes 41  
3.3.3 Temperature dependence of the optical properties 45

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3.4 Conclusion 49 References 50

Chapter 4 Cluster Synthesis of Branched  
CdTe Nanocrystals for Light-Emitting  
Diodes 53 4.1 Introduction 54

## **Luminescent properties of semiconductor nanocrystals**

In addition, semiconductor nanocrystals  
provide a versatile building block for

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developing complex nanostructures such as superlattices and multimodal agents for molecular imaging and targeted therapy. In this Account, we discuss recent advances in the understanding of the atomic structure and optical properties of semiconductor nanocrystals.

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## Cambridge Studies In Modern Optics **Semiconductor Nanocrystals: Structure, Properties, and ...**

This book presents an overview of the current understanding of the physics of zero-dimensional semiconductors. It concentrates mainly on quantum dots of wide-gap semiconductors, but touches also on ze



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## Cambridge Studies In Modern Optics **Optical Properties of Semiconductor Quantum Dots ...**

optical properties of a material, making them very different from those of the materials in bulk form. If a dot is excited, the smaller the dot, the higher the energy and intensity of its emitted light. Hence, these very small ... semiconductor nanocrystals.  $1 \text{ nm} \times 1 \text{ nm} \times 1 \text{ nm} \dots$

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## **CHAPTER 1 OVERVIEW OF SEMICONDUCTOR NANOCRYSTALS AND ...**

One of the most important properties of core-shell semiconducting nanocrystals (CSSNCs) is that their cores, which are quantum dots, fluoresce, which is important in their biomedical and optical

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applications. The shells are highly modular, and thus the bulk properties, such as solubility and activity of the CSSNCs can be changed.

## **Core-shell semiconductor nanocrystal - Wikipedia**

optical properties of group IV semiconductor nanocrystals Ph.D.

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Dissertation Márton András Vörösi  
Supervisor: Dr. Adam Gali Budapest

University of Technology and Economics  
Department of Atomic Physics 2013

## **Ab initio investigations on the electronic and optical ...**

Tamborra, M. et al. Optical properties of  
hybrid composites based on highly

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luminescent CdS nanocrystals in  
polymer. Nanotechnology 15 ,  
S240-S244 (2004). Google Scholar

## **Large-area luminescent solar concentrators based on ...**

Low-dimensional semiconductor  
structures, often referred to as  
nanocrystals or quantum dots, exhibit

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fascinating behavior and have a multitude of potential applications,

especially in the field of communications. This book examines in detail the optical properties of these structures, gives full coverage of theoretical and experimental results, and discusses their technological applications.

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