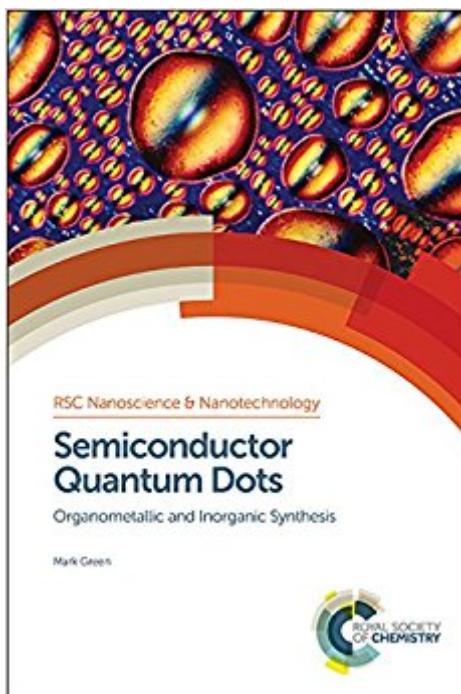


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Semiconductor Quantum Dots: Organometallic And Inorganic Synthesis (Nanoscience & Nanotechnology Series)



Synopsis

Quantum dots are nano-sized particles of semiconducting material, typically chalcogenides or phosphides of metals found across groups II to VI of the periodic table. Their small size causes them to exhibit unique optical and electrical properties which are now finding applications in electronics, optics and in the biological sciences. Synthesis of these materials began in the late 1980's and this book gives a thorough background to the topic, referencing these early discoveries. Any rapidly-expanding field will contain vast amounts of publications, and this book presents a complete overview of the field, bringing together the most relevant and seminal aspects of literature in an informed and succinct manner. The author has been an active participant in the field since its infancy in the mid 1990's, and presents a unique handbook to the synthesis and application of this unique class of materials. Drawing on both his own experience and referencing the primary literature, Mark Green has prepared. Postgraduates and experienced researchers will benefit from the comprehensive nature of the book, as will manufacturers of quantum dots and those wishing to apply them.

Book Information

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