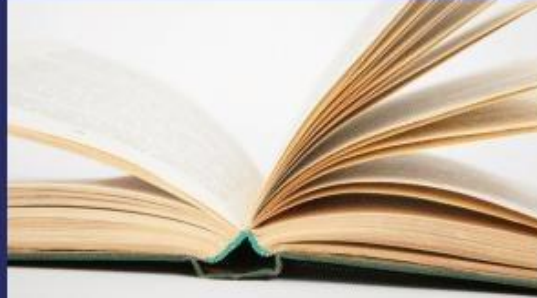


Nanotechnology is the term used to cover the design, construction and utilization of functional structures with at least one characteristic dimension measured in nanometers. Such materials and systems can be designed to exhibit novel and significantly improved physical, chemical and biological properties, phenomena and processes as a result of the limited size of their constituent particles or molecules. The reason for such interesting and very useful behavior is that when characteristic structural features are intermediate extent between isolated atoms and bulk macroscopic materials; (i.e., in the range of about 1 to 100 nm), the objects may display physical attributes substantially different from those displayed by either atoms or bulk materials. Ultimately this can lead to new technological opportunities as well as new challenges. Nanomaterials are experiencing a rapid development in recent years due to their existing and/or potential applications in a wide variety of technological areas such as electronics, catalysis, ceramics, magnetic data storage, structural components etc..... The size of the materials should be reduced to the nanometer scale.

Quantum dots CdSe/PSi/Si Photodetector



Ahmed Najj Abd
Nadir F. Habubi & Raid A. Ismail

Quantum dots CdSe/PSi/Si Photodetector

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صدر عن دار النشر الألمانية LAMBERT Academic Publishing كتاب للتدريسي الأستاذ المساعد الدكتور أحمد ناجي عبد المحترم من قسم الفيزياء والذي يحمل عنوان:

Quantum dots CdSe/PSi/Si Photodetector

هذا ويهدف الكتاب الى تهيئة جسيمات نانوية من مادة CdSe بطريقة الاستئصال الليزري في الميثانول بالإضافة الى تصنيع كاشف ضوئي من مادة السليكون السامي ودراسة خواصه قبل وبعد اضافة المادة النانوية لبيان مدى التحسن مع الاستجابة الطيفية والكشفية النوعية