SEMICONDUCTOR QUANTUM DOTS: PHYSICS, SPECTROSCOPY AND APPLICATIONS (NANOSCIENCE AND TECHNOLOGY)

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Semiconductor Quantum Dots: Physics, Spectroscopy and Applications. Front Cover Recent developments in fabrication techniques are reviewed and potential applications discussed. .. NanoScience and Technology, ISSN

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Semiconductor Quantum Dots - Physics, Spectroscopy and Applications | Yasuaki Masumoto | Springer
Our activities concern semiconductor quantum dots in the far infrared group in the department of "Photonics" of Centre for Nanoscience and Nanotechnology. The physics and the potential applications of these nanostructures are incredibly rich. spectroscopy going from ensemble to single quantum dot measurements .

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Effects of laser-ablated impurity on aligned ZnO nanorods grown by chemical vapor deposition. At crystal sizes greater than the excitonic Bohr diameter 2r Bsemiconductor crystals exhibit translational motion confinement of the fully coupled exciton due to a strong Coulombic interaction between the electron and holes, i. Faugerasetal.Athighercurrents,ELemissionfromtheorganiclayersdomir Part 1. These defects states can be categorized into either shallow or deep levels, where shallow level defect states have energies near the conduction band or valence band-edge. For a compound semiconductor, if the anion dangling bonds at the surface are not passivated, a band of surface states is expected in the gap just above the valence band-edge. Quantumstatesandconfinementoftheirexcitonsmayshifttheiropticalabs color emission from II-VI semiconductor quantum dot-polymer composites.