



What are quantum dots' applications?

Electric Signals & Emitting Light

An array of quantum dots can be a TV screen by receiving electric signals and emitting lights of different colours.

Control Path Of a Chemical Reaction

Scientists can control the path of a chemical reaction by placing some quantum dots in the mix and making them release electrons by shining light on them.

Semiconductor

If one of the energy levels on electron jumps between in a quantum-dot atom is the conduction band, the dot can operate like a semiconductor.

Solar Cells

Solar cells made with quantum dots are expected to have a thermodynamic efficiency as high as 66%.



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Multiplexer in Telecommunications

A quantum dot can also highlight a tumour that a surgeon needs to remove, hasten chemical reactions that extract hydrogen from water, and as a multiplexer in telecommunications.