



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.

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#### 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



What are quantum dots' applications?

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.

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