



# Nanoparticle Technologies: Chapter 7. Optoelectronics (Interface Science and Technology)

*Farid Bensebaa*

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Current production processes of electronic devices require significant capital, energy, and raw materials. Bottom-up processes based on nanoparticles are shown to provide cost-effective solutions, although product reliability is a concern in most cases. High-quality, cost-effective, and transparent conductive films are obtained using nanoparticles as precursors. Nanoparticle-based chemical mechanical polishing of wafers and other surfaces is currently done in the industry. Practical applications in display, printed circuit boards, light-emitting diodes, photovoltaic cells, magnetic storage, and radio-frequency identification tags have also been demonstrated. Electrophoretic-based e-paper is a potential large market for nanoparticles in the near future. Different nanoparticle formulations are used for the development of laser sources, optical and electronic sensors, dielectric materials and films, waveguide, and magnetic and optical storage. The concept of single-electron transistor and spintronics based on quantum dot are currently attracting a lot of interest in academia.

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