

**ATOMIC AND MOLECULAR MANIPULATION (FRONTIERS  
OF NANOSCIENCE)**

Loren N. Rinaldo

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Clear Turn Off Turn On. As mentioned above, information technology has been, and will continue to be, one of the prime beneficiaries of advances in nanoscale science and technology. Manipulation of person atoms and molecules has additionally unfolded thoroughly new parts of analysis and data, elevating basic questions of "Optics on the atomic scale", "Mechanics on the atomic scale", "Electronics on the atomic scale", "Quantum physics on the atomic scale", and "Chemistry on the atomic scale".

Othercompanieshavedevelopedderivatizedfluorescentnanospheresandnanoceramics. Similarly, new ceramic nanomaterials can be used for water jet nozzles, injectors, armor tiles, lasers, lightweight mirrors for telescopes, and anodes and cathodes in energy-related equipment. Single-electron transistors SETs 2 have been demonstrated and are being explored as exquisitely sensitive sensors of electronic charge for a variety of applications, from detectors of biological molecules to components of quantum computers. Many potential applications of nanoscale science and technology have been touted in both the scientific and the popular press, and there has been no shortage of promises made for the ability of nanoscale technology to revolutionize life as we know it.

Newbiocompatiblenanomaterialsandnanomechanicalcomponentsshouldleap ahead of silicon technology, rather than quickly supplanting the highly developed and still rapidly advancing silicon technology, these exploratory devices are more likely to find initial success in new markets and product niches not already well-served by the current

technology. Many potential applications of nanoscale science and technology have been touted in both the scientific and the popular press, and there has been no shortage of promises made for the ability of nanoscale technology to revolutionize life as we know it.