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Sommario/riassunto	Reducing the dimensions of contiguous matter, down to the nanometer scale, confines the electronic and vibrational wavefunctions and results in unique properties which open up a wide vista of potential applications in optics, mechanics, electrical engineering, magnetic devices, catalysis and biomedicine. Nanostructures, characterized by having at least one dimension in the nanometer range, are considered

to be a bridge between single molecules and their bulk counterparts. The challenge for nanotechnology is to achieve perfect control of the nanoscale-related properties; which obviously require