Nanotechnology and manufacturing of pharmacy materials at the atomic and molecular scale resulting into the construction of structures in thenanometer scale size range (often 100 nm or smaller), without changingunique properties, small nano clusters the effect of reduced dimensionality on electronic structure has the most profound effect Due to the reduction in the spatial dimension, or confinement of particles or quasi particles in a particular crystallographic direction within a structure generally leads to changes in physical properties of the system in that direction. 
Hence classification of the nanostructured materials and systems essentially depends on the number of dimensions which lie within the nanometer range



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