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Sommario/riassunto

Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules is a dream that can be achieved by nanotechnology. As one of the fastest developing and innovative -- as well as well-funded -- fields in science, nanotechnology has already significantly changed the research landscape in chemistry, materials science, and physics, with numerous applications in consumer products, such as sunscreens and water-repellent clothes. It is also thanks to this multidisciplinary field that flat panel displays, highly efficient solar cells, a