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Nanotechnology: an overview of current research and developments

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Abstract:

Various industries, spanning from information technology, energy, environmental science, pharmaceuticals, home security, food safety, to transportation, harness the potential of nanotechnology to substantially enhance and potentially revolutionize their operations. Recent progress in fields such as chemistry, mechanics, materials science, and biotechnology is being explored within the realm of nanotechnology to fabricate novel materials endowed with exceptional properties owing to their nanoscale architectures. This paper delves into the myriad of nanotechnological advancements witnessed over the past few decades.