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World Congress on

Advanced Nano science Nanotechnology

Major environmental applications of nanotechnology

Nanotechnology offers a huge level of enhancement in the environmental areas. It is essential and plays a significant role to the future advancements. The Applications of nanotechnology are wide spread to various fields in science and engineering. The ability of nanotechnology at grassroots were elevated from molecular level to atom by atom level in order to develop large structures with its novel properties and functioning attributes. The protection of environment from global deterioration has become a challenging task due to release of toxic chemicals from several anthropogenic activities. The Major environmental applications of nanotechnology comprise of water purification using nanomaterials, wastewater remediation etc. The better quality of water provides social and economic benefits to the society for safe wellbeing; if it fails the waterborne diseases will come into existence to damage the health of living beings. In fact, nanotechnology can help to improve the quality and availability of water. Nanomaterials imparts various advantages over conventional micro structured materials for water purification. Nanomaterials can act as superior adsorbents or catalysts to eradicate the contaminants efficiently. Nanomembranes has the ability to degrade the pollutants and also to prevent the growth of microorganisms in water. The continuing spread of industrialization and urbanization tasks includes construction, transportation, mining, petroleum refining, manufacturing etc., leads to the depletion of natural resources, creates environmental pollution and consequently threaten the environmental security. This paper sheds the light on the latest progresses in environmental applications of nanotechnology to accomplish the maintainable and supportable environment.

Keywords: Environment, Nanotechnology, Nano materials, Applications

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Biography

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