

Shaping Safer Future Nanotechnology through Wise Worthy Scientific Research

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Letter to Editor

I wish to provide some perspective from the current scenario of nano-technology and related concerns with regard to overall publications in the same discipline in your journal. The publications are of quite good value in the current prospects of 21st century Industrial revolution worldwide due to prominent growth in nanotechnology. But there seems to be a great difference between 20th century nanotechnology and 21st century nanotechnology with various issues and concerns despite of its wide spread popularity and applicability.

Recently, however, the versatile applications of nanotechnology with convergence of scientific disciplines like chemistry, biology, electronics, physics, engineering etc. is leading it to multiplication of applications in materials manufacturing, electronics, information technology, pharmaceuticals, medical diagnosis and health care, energy, biotechnology, space exploration, security, environmental pollution control and so on. Hence, nanotechnology is expected to have a significant impact on the whole economy of the world within next few years by growing in importance over the longer term as further scientific and technology breakthroughs are achieved.

Here, I'd like to shed some more light on the implications of nano-system during designing and development with respect to health and ecological safety which have not yet been taken importantly into account by regulators following (or not following!) those laws by governing bodies like EPA (Environmental Protection Agency), FDA (Food & Drug Administration), NIH (National Institute of Health) etc. Whereas economical and societal benefits are the pros of the current nanotechnology, some devastating issues arising such as nanopollution and biocompatibility as great challenging concerns for future nanotechnology.

The researchers should think twice carefully before launching their scientific ideas as well as nanoproducts for the application and commercialization.

I am not really disrespectful to the current nanotechnologists. If trial for giving the whole society and mankind a little but safe, effective nanoproducts with minimum possible limitations in future, then it may be worthy wise novel and unique gift of nanotechnology for whole environment and ecosystem in which we are living.