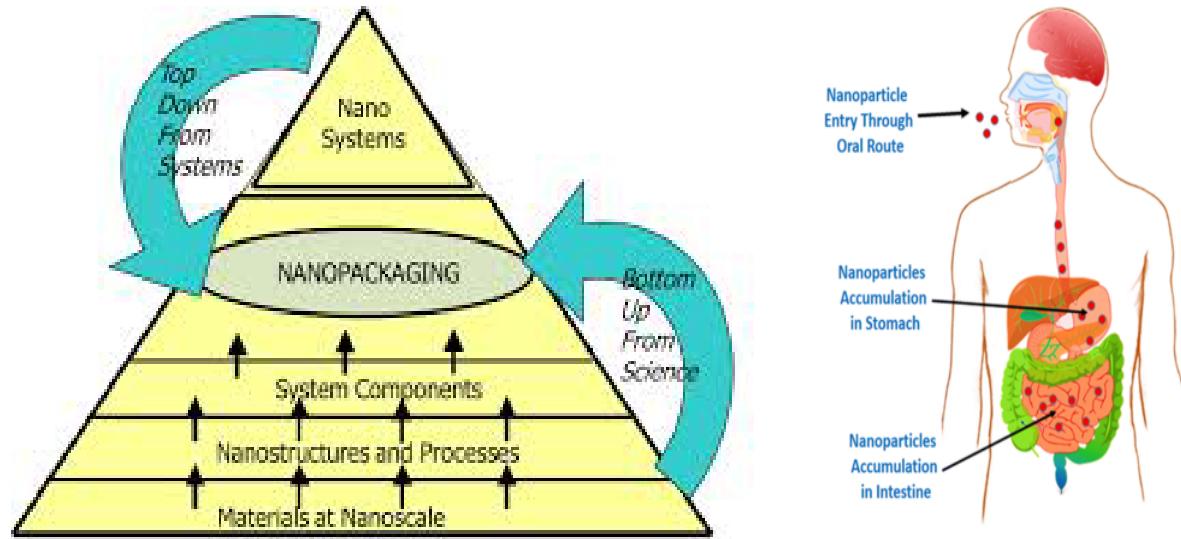


**Image Article**

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## Nanotechnology in Food Packaging

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**Figure 1:** In the current market, food packages made with nanoparticles, nano-food packaging have become more affordable. However, while the use of nanomaterials is growing in food packaging applications, customer expectations and acceptance are influenced by concern about toxicity. A various commercial industry which claims to be using nanotechnology for food packaging uses it but in many experiments the technique used by them is correct but there are many nanomaterials transferred from packing to food even after this scientist were not able to conclude to the amount of nanomaterial which found its way into the food is harmful to humans and environment. A range of engineered nanomaterials, including silver nanoparticle (AgNP), nano clay, nano-zinc oxide (nano-ZnO), nano-titanium dioxide (nano-TiO<sub>2</sub>) and titanium nitride nanoparticle (nano-TiN) have been applied to food packaging as functional additives. Each nanomaterial introduces distinct properties to the host material due to variations in chemical structure and characteristics, leading to numerous functional packaging applications. AgNPs are clusters of metallic silver atoms which are mainly produced for antimicrobial and sterilization purposes. The lack of awareness about human health effects and risk assessments can limit the amount of nanomaterial consumption in food-related applications with undefined toxicity amounts of nanoparticles. Publishers and media outlets use their platforms to connect with customers and to stimulate the national control of nanomaterials in food packaging by government agencies. Although the USA is a leading country in the production of food and food packaging nanomaterial safety tools, the USFDA's definite regulatory approach to nanotechnology in FCSs is still in progress.

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