

## Editorial on Scope of Nano materials

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### Abstract

Nanomaterials encompass all nanoscale materials or materials that contain at least one nanoscale structure, either on their surfaces or internally. They can be inorganic, organic or biological. Nanomaterials such as nanoplates, nanoparticles, nanowires and nanotubes can be engineered in labs. Nanomaterials can also occur in nature—naturally occurring nanoparticles include smoke, sea spray and volcanic ash, as well as minerals, soils, salt particles and biogenic particles. Nanoparticles, nanowires, nanotubes and nanoplates are all types of nanomaterials, distinguished by their individual shapes and dimensions. What these materials have in common is that they have one or more dimension at the nanoscale. Nanoparticles have all three dimensions within the nanoscale. Nanowires/tubes have diameters in the nanoscale, but can be several hundred nanometers long—or even longer. Nanoplates' thickness is at the nanoscale, but their other two dimensions can be quite large. An example of a nanoplate is graphene, a sheet of carbon one atom thick. Decades of research and development in nanoscience and nanotechnology have delivered both expected and unexpected benefits for our society. Nanotechnology is helping to improve products across a range of areas, including food safety, medicine and health care, energy, transportation, communications, environmental protection and manufacturing. It is being used in the automotive, electronics and computing industries, and in household products, textiles, cosmetics—the list goes on. Already there are over 800 products on the market that are enhanced with nanotechnology.

### Full name of webinars, dates,

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