



Cruising Review

Silver-Nanoparticles: Publications and Research from SwissMixIt



This webpage QR code

## Structured Data

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Silver nanoparticles are nanoparticles of silver of between 1 nm and 100 nm in size. While frequently described as being 'silver' some are composed of a large percentage of silver oxide due to their large ratio of surface to bulk silver atoms. They have unique optical, electrical, and thermal properties and can be found in products that range from photovoltaics to biological and chemical sensors. Some examples include conductive inks, pastes and fillers which utilize silver nanoparticles to utilize their high electrical conductivity, stability, and low sintering temperatures. Other applications include molecular diagnostics and photonic devices, which take advantage of the novel optical properties of these nanomaterials. Increasingly common application is the use of silver nanoparticles for antimicrobial coatings, and many textiles, keyboards, wound dressings, and biomedical devices now contain silver nanoparticles that continuously release a low level of silver ions to provide protection against bacteria.

PDF Version of the webpage (first pages)

## Silver Nanoparticles Botanical Information

Silver nanoparticles are nanoparticles of silver of between 1 nm and 100 nm in size. While frequently described as being 'silver' some are composed of a large percentage of silver oxide due to their large ratio of surface to bulk silver atoms.

They have unique optical, electrical, and thermal properties and can be found in products that range from photovoltaics to biological and chemical sensors.

Some examples include conductive inks, pastes and fillers which utilize silver nanoparticles to utilize their high electrical conductivity, stability, and low sintering temperatures.

Other applications include molecular diagnostics and photonic devices, which take advantage of the novel optical properties of these nanomaterials. Increasingly common application is the use of silver nanoparticles for antimicrobial coatings, and many textiles, keyboards, wound dressings, and biomedical devices now contain silver nanoparticles that continuously release a low level of silver ions to provide protection against bacteria.



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