

The network partners

The Network NanoSilver has been cooperating since June 2011, using synergies for the responsible development of nanosilver products. From 2011-2014, the network was partially funded by the German Federal Ministry for Economic Affairs and Energy (BMWi). Since 2015, it is a self-financed open innovation network for companies and institutes. It currently comprises small and medium-sized partner companies, being supported by partner research institutions. The network is managed by the Nanoinitiative Bayern GmbH.



Network NanoSilver

Point of contact and solution provider for nanosilver products:

- Bundled competencies of the network partners
- Implementation and management of tailor-made cooperation projects
- Advice and further information
- Evaluation and targeted forwarding of cooperation requests
- Joint public relations
- Organisation of professional events, status meetings, workshops and seminars, e.g. the network day NanoSilver, info at <http://silber.nano.bayern>
- Contacts to authorities, politicians and project management agencies

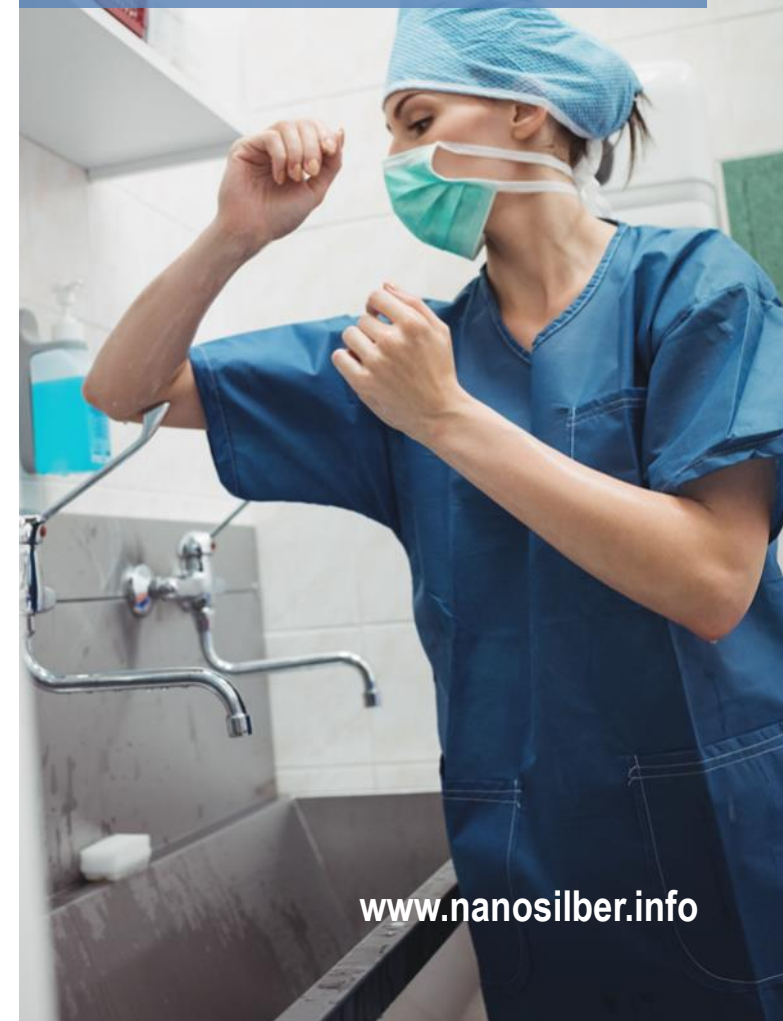
Become a partner!

Network NanoSilver / Nanoinitiative Bayern GmbH

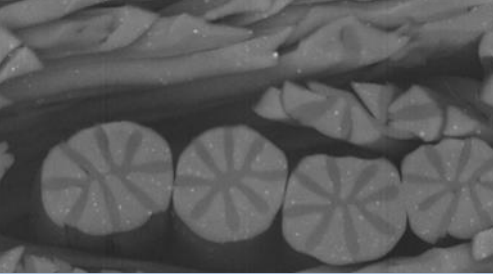
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Responsible development of nanosilver products



www.nanosilber.info



Safe and responsible development



Analysis of public places with increased risk of infection



Medical and electronic applications

Nanosilver

Silver is outstanding by its unique properties, which are even more pronounced with increasing surface area per unit volume. Therefore the use of nanosilver requires fewer quantities to achieve the same effect as for the bulk material, allowing a reduction in total silver loading.

The technical potential of nanosilver

The unique properties of silver include high thermal and electrical conductivity as well as naturally antimicrobial effects. This technical potential opens up high performance applications ranging from flexible displays to antimicrobial equipment of hospital textiles, wound dressings and wall panels. Furthermore, these extraordinary optical properties can be used in sensors and for spectroscopy.

In composite materials, even small amounts of nanosilver wires do increase the electrical conductivity, enabling transparent conductive materials. A particular advantage here is that transparency and color of the materials are controllable.

Economic potential of nanosilver

Current market surveys forecast the nanosilver market to grow well to \$ 3.3 billion by 2024. The greatest opportunities are in the area of conductivity and antimicrobial applications.

Aims of the network

NanoSilber is an open network promoting the objective discussion on nanosilver and the responsible development of nanosilver products.

The unbiased examination of the opportunities and risks of nanosilver is important throughout the product life cycle. In addition to the development of innovative products, we therefore also clarify open questions about possible risks in R&D projects. In order to make use of the full potential of nanosilver, our focus is further on the sensible and economical use of the material. Our aim is developing products that offer customers added value with high product safety.

Examples of network projects:

- Conductive, transparent sol-gel coatings
- Modification of the silver nanowire surface
- Practicality and benefit of antimicrobial textiles in care situations
- Emergency rooms with antimicrobial equipment
- Antimicrobial properties of recooling systems

If you are interested in a cooperation with the network please do not hesitate to contact us. We are pleased to meet you.

Innovation by networking

The network consists of strong partners, working in different industries, with an outstanding expertise. The focus of the network activities is the open exchange among experts as well as the cooperation between the network partners.

The partners are supported by a professional network management taking care of administrative tasks as well as providing joint public relations. Further it professionally prepares and presents information about current findings and achievements to a broad public. Thereby, the network contributes significantly to an objective discussion about the opportunities and risks of nanosilver.

Core competences of the network

- Synthesis and production of nanosilver
- Processing in different materials and surfaces
- Antimicrobial treatment of textiles
- Applications in Medical technology and packaging industries
- Statutory rules, standardisation
- Exposition analysis