

International network for nanocarbons

The Network NanoCarbon is managed by Nanoinitiative Bayern GmbH since 2013. After funding in the framework of the Central Innovation Program for SME (ZIM), it has been self-consistent since June 2016. Presently the network consists of 21 members from Germany, Belgium, Austria, France, Finland, Switzerland, Japan, Australia and USA. The network fosters new chances for international cooperations, joint developments and world-wide commercialisation.

Core competencies

- Many years of experience in the field of nanocarbon materials
- Sound knowledge in the areas of manufacturing and dispersion
- Relevant expertise, e.g. in the provision of composites or masterbatches for further processing
- Excellent international contacts
- Access to modern analytical methods for quality assurance
- recommendations for the safe handling of nanocarbon materials

We are happy to announce that the Network NanoCarbon has been chosen as a success story of the ZIM program.

Become a partner!

Network NanoCarbon / Nanoinitiative Bayern GmbH

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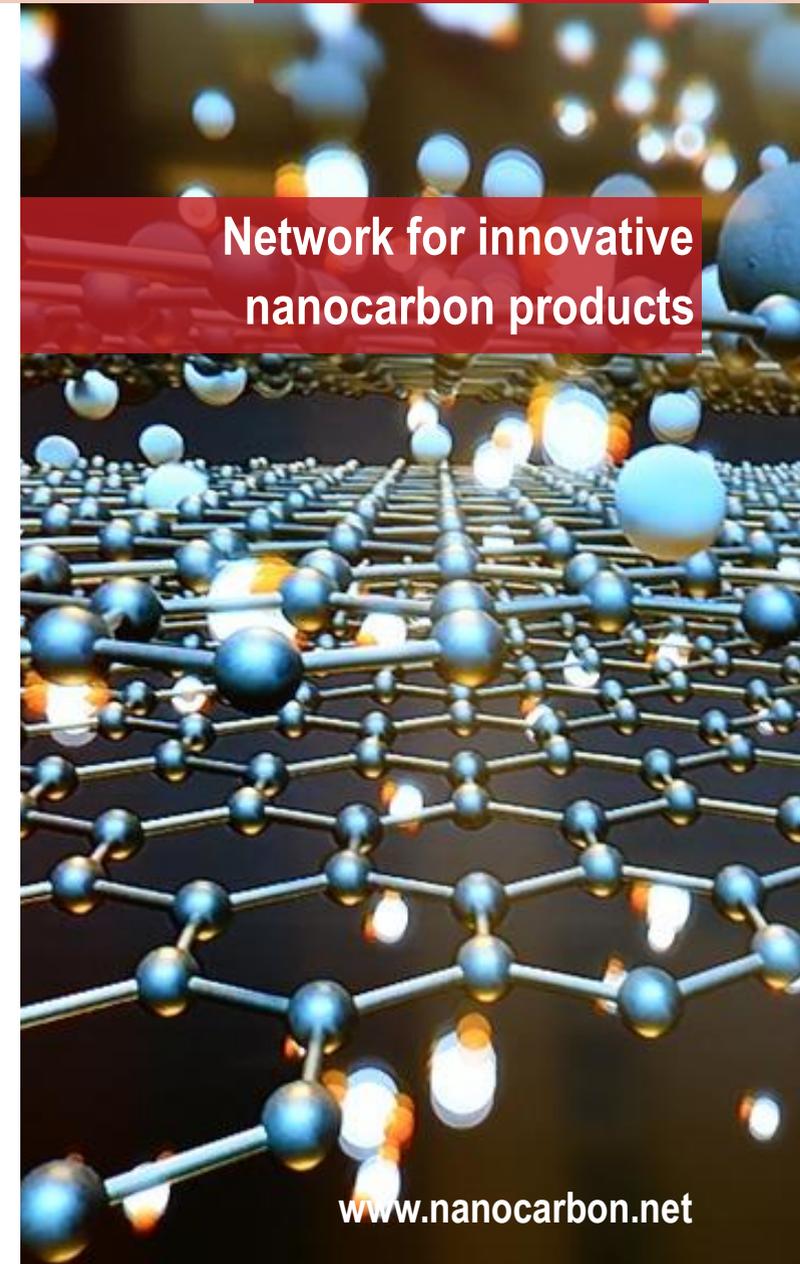
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11/2022



**Network for innovative
 nanocarbon products**



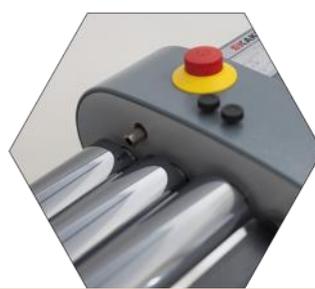
Application: energy storage



Networking



Production of CNTs



Three roll mill



Masterbatch pellets



Sensor technology

Objectives

The network's objective is to promote the industrial and economic benefits of nanocarbon materials through:

- close cooperation with partners
- international exchange of information
- pooling the expertise of all partners
- forming a shared technology platform
- initiating joint projects
- completing value-added chains
- establishing new products and applications for nanocarbons

Further development of process technologies

Nanocarbons, for example carbon nanotubes (CNTs), graphenes, nanodiamonds or carbon nanohorns (CNHs), possess unique material properties:

- electrical conductivity like metals
- thermal conductivity like diamond
- tensile strength 100 times greater than that of steel

In order to take advantage of these properties, work must focus on the optimisation and further development of process technologies and process engineering. The technologies of surface functionalisation and dispersion are key to realising the technical potential.

Products and markets

The network sees itself as paving the way for the development of products that are decisively improved by nanocarbon materials. In doing so, the exploration of potential sales markets is equally as important as evaluating the economic viability of the technologies used. Value-added chains from the manufacturer to the end customer should be completed and should be linked to the network.

The NanoCarbon Network pools and utilises partners' existing expertise. It accelerates, accompanies and supports rapid technology transfer from research and development results into commercial products. The focus here lies, in particular, on supporting small and medium-sized enterprises.

Photos: NanoCarbon Annual Conference 2015-2022,
Source: Nanoinitiative Bayern GmbH.

