



Principal Office

NanoScape AG
Am Klopferspitz 19
D-82152 Planegg-Martinsried
Germany
Phone: (+)49 - 89 46 13 34 43 10
Fax: (+)49 - 89 46 13 34 43 30
E-Mail: info@nanoscape.de
Web: www.nanoscape.de

Contact Person

Dr. Wayne DANIELL
Chief Executive Officer
Phone: (+)49 - 89 46 13 34 43 10
Fax: (+)49 - 89 46 13 34 43 30
E-Mail: wayne.daniell@nanoscape.de

Contact Person

Dr. Andreas KOHL
Manager Operations and Finance
Phone: (+)49 - 89 46 13 34 43 21
Fax: (+)49 - 89 46 13 34 43 30
E-Mail: andreas.kohl@nanoscape.de

NanoScape focusses on the design, development and production of porous, nanoscale materials. Its **NanoZeolite** product portfolio currently consists of a range of microporous aluminosilicate (zeolite), aluminophosphate and mesoporous silicate materials, with pore sizes in the range 3Å to 100Å. Particle sizes are typically around 100nm (available in the range of 50 - 400nm) with narrow particle size distributions. In order to meet the requirements of the industrial applications served, materials are supplied in powder form (with either hydrophilic or organically-modified surfaces) or as suspensions (both aqueous and in organic solvents). Porous coatings of these materials can be applied (via e.g. dip-, spin-, spray-coating, or doctor-blading) to glass, ceramic and aluminium substrates.

Applications which are being currently developed by NanoScape on the basis of its materials platform are primarily directed towards CleanTech issues, such as:

- adsorbers for dehumidification and heat recovery systems
- adsorbers for heat pumps
- additives / coatings for water purification membranes
- selective air filters and catalysts
- additives / coatings for gas separation membranes

NanoScape's goal is now to further develop its encapsulation technology, in which functional molecules (such as dyes and catalysts) are incorporated ("encapsulated") into the pore structure of the NanoZeolite materials. This encapsulation process can stabilise and protect the functional molecules, whilst simultaneously broadening their application range. Furthermore, slow release and triggered-release mechanisms are being developed, which allow a controlled delivery of the functional molecule to the surrounding matrix. Encapsulation applications have so far been found involving fluorescent and photochromic dyes; hardening catalysts for polymers; and sensors.

NanoScape's porous, nanocrystalline materials are breathing new life into the area of silicate materials, and through significantly improved properties are leading to performance enhancement in a host of known applications. Furthermore, the availability of NanoZeolites is opening up new applications, which were until now unserviceable with microcrystalline particles.