

NANOLOCKIN DEVELOPS NEW AIR QUALITY MONITORING TECHNOLOGY



MONITORING AIR QUALITY THROUGH A BETTER UNDERSTANDING OF THE NATURE OF ULTRAFINE PARTICLES IS AN IMPORTANT ADVANCE

Air quality is an increasing concern as there is increased wood burning due to high energy prices. NanoLockin has developed a new method based on lockin thermography to measure particles. This involves heating the particles with light and analyzing the heat.

Compared to existing particle measuring devices, this basic physical principle of adsorption instead of light scattering can specifically detect combustion products, such as soot particles. Falsification of the measurement results due to less critical particles, such as pollen or dust, is thus ruled out.

With this technology, which is protected by several patents, easy-to-use and mobile devices can be developed that detect and quantify fine and ultra-fine particles from combustion processes on site. Measurements for monitoring and assessing air quality are thus possible more quickly and cost-effectively than with existing methods, even for private individuals. The technology can also be used for online measurement in air filter systems.

NanoLockin is looking for investors and cooperation partners to realise these concrete product ideas. Out-licensing of the technology is also possible.

ABOUT NANOLOCKIN

NanoLockin develops, produces and distributes instruments for particle analysis. The company was founded as a spin-off of the Adolphe Merkle Institute in Fribourg and the ZHAW in Winterthur and is the winner of the Innovation Award of the City of Fribourg 2018/2019. Managing Director is co-founder Dr. Christoph Geers and responsible for funding and cooperation issues is co-founder Prof. Dr. Gunter Festel.

Contact for further information:

Dr. Christoph Geers, christoph.geers@nanolockin.com

Prof. Dr. Gunter Festel, gunter.festel@nanolockin.com