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Colorimetric Sensors for In-Field Detection of Chemical and Biological Compounds

Developing nanosensors that can help to detect diseases and monitor the safety and quality of food, and the environment, better and faster. The presence of target analytes can be monitored through colorimetric changes easily visualised by the naked eye.

Competitive advantage

- Results that can be seen without the use of specialised equipment – enables in-field qualitative and quantitative measurements
- Sensors can be modified or embedded onto any substrates with no restriction of surface geometry or topography, including paper, film, glass, and plastic

Impact

- Aiming to solve current challenges in industries by developing detection techniques that are fast, simple, cost-effective, portable, and allow on-the-spot measurements
- Nanosensors find many applications, ranging from early disease diagnostics to food and environmental monitoring

Successful outcomes

Research reports demonstrating the capability of the technology can be provided upon request.

Capabilities and facilities

- Access to nanoparticle synthesis and inkjet printing for sensors
- Access to the state-of-the art Mark Wainwright Analytical Centre for materials characterisation

More Information

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