

# MICRO AND NANO PLASTICS SENSOR

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It's a system to identify and quantify micro and nanoplastics, favoring both the detection and the recognition in water or in biological samples, in order to reduce environmental pollution.

**Protection:** Italy, with possibility to extend internationally

**Inventors:** Damiano Genovese, Luca Prodi, Enrico Rampazzo, Nelsi Zaccheroni.

## INVENTION

The invention aims to provide a solution to the problem of pollution from plastic in the environment. It is an innovative system that allows the **detection and recognition of micro and nanoplastics** in the environment, in water or in biological samples, using **biocompatible materials** that allow a quick and easy identification and potentially quantification of these fragments.

## ADVANTAGES

- High sensitivity of the system to the detection of micro and nanoplastics;
- The system is simple to realize, biocompatible and low cost;
- The instruments are widespread and based on consolidated technology;
- It allows to differentiate between the various types of material.

## APPLICATIONS

- Toxicological and environmental analysis;
- Imaging of micro and nanoplastics both in the water environment and in biological samples.

## CONTACTS

Knowledge Transfer Office

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