



Nanotechnology for Sensing, Medical and Environmental Application

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Message from the Guest Editors

The special issue is focused on smart (active, adaptive, stimuli-responsive) nanomaterials used in chemosensors, which can be applied in several fields, namely biomedical, cosmetic, electronic as well as in agriculture and the food sector.

The examples include, but are not limited to the following areas of application:

- In medicine: nanocarriers, nanoencapsulates, disease prevention, therapy, non-invasive and point-of-care diagnosis, etc.
- In cosmetics: stimuli-responsive nanocapsules designed to enclose a cosmetic ingredient able to treat different skin conditions
- In food sector and food packaging: nanomaterials to prevent nutrients or other molecules from breaking down in the body and to allow a slow release at a target specific location, real time food quality and food safety monitoring or remediation, etc.
- In agriculture: nanomaterials for targeted release and delivery of water, nutrients, agrochemicals and antimicrobials to crops, for real-time detection and monitoring of plant pathogens and stress conditions, etc.





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