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Nanomaterials for Environmental and Biological Monitoring

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Message from the Guest Editor

Dear Colleague,

Over the past decades, advances in nanotechnology have been achieved through the synthesis and/or production of new and improved nanomaterials (NMs: e.g., imprinted polymers (IPs), metal–organic frameworks (MOFs), carbon nanotubes (CNTs), quantum dots (QDs), metal oxides (MOs), and their diverse derivatives). These NMs have been applied extensively to develop various sensing tools and devices in various fields due to their numerous favorable properties in terms of porosity, surface area, pore volume, receptor sites, thermal and chemical stability, selectivity, low toxicity, luminescence, and chemical functionality. The introduction of these advanced functional NMs has contributed greatly to the progress of NM-based sensing technology to resolve the limitations that conventional methods suffer from. In light of this advancement in NM-based sensing technology, this Special Issue is proposed to invite researchers who have been involved in the development and application of sensing techniques to detect various targets (metals, organics, and biological targets) in diverse environmental or biological media.



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Special Issue



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Message from the Editor-in-Chief

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