# **Special Issue**

# Design, Synthesis, and Application of Functional Nanomaterials in Environmental Analysis and Agriculture Protection

### Message from the Guest Editor

With the development of modern society, the problems of environmental pollution and agricultural protection are becoming increasingly serious. The qualitative and quantitative evaluation of some important environmental pollutants, including ions, small molecules, and polymers, in water, air, soil, plant, animal, and food samples has great value in studying their effects, migration, and fate in the environment. Potential topics include, but are not limited to, the following:

- Preparation of novel functional nanomaterials and their composites for the detection and quantification of different environmental pollutants (e.g., heavy metal ions, anions, pesticides, antibiotics, microplastics, Bt protein, and poisonous gases) and agriculture monitoring targets (e.g., ROS, Ca2+, Fe2+, Na+, glucose, bacteria, and viruses);
- Studies on response mechanisms of novel functional nanomaterials and their composites in complex environmental and agricultural samples;
- Development of novel methodology using functional nanomaterials and their composites for improvement of analytical techniques (e.g., colorimetry, fluorometry, phosphorimetry, chemiluminometry, electrochemistry, and immunoassay).

#### **Guest Editor**

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### Deadline for manuscript submissions

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