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Nanotechnologies for the Development of Rapid Analytical Platforms

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Message from the Guest Editors

Nanotechnologies play a crucial role in the development of analytics platforms for the rapid diagnosis of pandemic disease, in the monitoring of emerging pollutants, as well as in the fight against the food fraud.

User-friendly and cost-effective miniaturization is a crucial issue in improving the efficiency and robustness of analytics assay for in-field use. In this context, nanomaterials, microfluidics, MEMS silicon technology, nanomedicine, surface chemistry, as well as Lab-on-Chip are some examples of nanotechnologies implemented for the fabrication of rapid analytics platforms.

This Special Issue aims to cover current experimental and computational advances in the field of analytic and diagnostics by innovative nanotechnologies. Topics can include but are not limited to advanced nanostructured materials synthesis routes, innovative sensing and transduction approaches, effective integration strategies, biosensors, analytics performance evaluation, and computational simulation.



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Special Issue



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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