Special Issue

Application of Functional Materials in Analysis and Detection

Message from the Guest Editors

Recent advances in the design of functional materials, especially in the field of nanotechnology, have triggered significant research progress. Owing to the high surface to volume ratio, aspect ratio, and surface area arising from nanostructured materials, they have been shown to display unusual physicochemical properties in comparison with their bulk counterparts. The use of functional materials at the nanodimension scale provides several improvements in terms of analytical features including sensitivity, rapidity of response, selectivity, and robustness, demonstrating the huge advantage of using nanomaterials over micromaterials in the development of smart and high-performance analytical tools. Potential topics include, but are not limited to:

- The synthesis and advanced characterization of functional materials;
- Functional materials in sensors;
- Functional materials applied to the monitoring and removal of environmental pollutants;
- New designs and applications of functional materials.

https://www.mdpi.com/journal/molecules/special_issues/Materials_Analysis_Detection

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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