Special Issue

Spectroscopic Instrumentation: Applications to Biology and Chemistry

Message from the Guest Editor

Spectroscopy finds extensive use as analytical tool utilized for different applications. In the last few years, there have been significant advances in the development of innovative miniaturized spectroscopic systems. Detectors, light sources, and optical waveguides are fundamental parts. Now, it is also possible to find different commercial solutions for miniature spectrometer systems. Anyway, in order to be extensively used in biology and chemistry, significant improvements must be done. The aim of this Special Issue is to collect up-to-date scientific results for chemical and biological applications specifically using miniaturized spectrometer systems. The applications include laboratory applications, environmental sensing, on-site industrial analyses, botany and ecology applications, and finally clinical and biochemical studies. Keywords

- Miniaturized spectrometer
- UV spectroscopy
- Visible and infrared spectroscopy
- Environmental sensing
- Biochemical application
- Botany and ecology
- Miniaturized detectors
- Miniaturized optics
- Optical fibers

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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