Special Issue

Laser Spectroscopy

Message from the Guest Editors

Since their invention in 1960, lasers have been successfully applied to both fundamental and applied research. In particular, laser spectroscopy is a powerful technique which has been used in physics, chemistry, and biology to study and unravel the structure of matter by using laser light as a pumping probe. The development of solid-state and tunable lasers working in both continuous and pulsed mode has resulted in a sensitive, versatile tool for sensing and analytical applications. This Special Issue covers the whole spectrum of laser spectroscopy, ranging from the study of the interaction of radiation with matter in terms of absorption, fluorescence, and scattering to UV–vis–IR spectroscopy, imaging, ultrafast laser spectroscopy, optical sources, and remote sensing. The topics of this Special Issue include fundamental, applied, technological, and industrial aspects of laser spectroscopy. Novel applications in optics, photonics, energy, and biomedicine, as well in materials science and technology, are warmly welcome.

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Deadline for manuscript submissions

closed (30 September 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/33614

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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.

Editor-in-Chief

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