Special Issue

Development and Application of Laser-Induced Breakdown Spectroscopy

Message from the Guest Editor

Laser-induced breakdown spectroscopy (LIBS) is a multi-element technique that uses laser pulses focused on the sample surface to create a plasma that emits radiation/light, primarily in the UV and visible spectrum. It has been used in agriculture, industry, food, heritage, environment, geochemistry, health, and more over the past few decades.

This technology can quickly and accurately detect and identify chemical components, that is, it allows real-time characterization of various organic and inorganic materials without sample preparation and analysis. Compared with other contemporary technologies, LIBS has overall advantages in practical operations, such as little or no sample preparation, real-time, all-element measurements, and remote sensing. Therefore, LIBS can be considered the most promising online/in situ real-time elemental analysis technology. The aim of this Special Issue is to showcase research on LIBS technology, focusing on applications and not limited to specific fields. Authors are encouraged to submit relevant research articles or reviews on the above topics.

Guest Editor

Prof. Dr. Gustavo Nicolodelli

Departamento de Física, Universidade Federal de Santa Catarina, Florianópolis 88020-302, SC, Brazil

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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