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Diode Laser Spectroscopy – Robust Sensing for Environmental and Industrial Applications

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Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editors

Dear Colleagues,

The growth of many different techniques based on diode lasers in combination with spectroscopic methods, such as direct and wavelength modulation absorption, cavity-enhanced absorption and photoacoustic spectroscopy, illustrates the variety of questions that can be addressed. There are already numerous mature devices and turn-key-systems available commercially. However, they are covering only a small fraction of applications, where the process of interest is accessible by optical diagnostics.

In this Special Issue, we invite submissions on the use of state-of-the-art Diode Laser Spectroscopy for robust sensing in a wide field, from fundamental sciences, environmental physics and biomedical monitoring to its utilization in harsh industrial conditions. Original work highlighting the latest research and technical development is encouraged. Contributions should be focused on the scientific and practical challenges of implementing Diode Laser Spectroscopy, as well as on novel ideas to increase the robustness of the method for monitoring processes and investigating phenomena. Review papers are welcome.

Dr. Steven Wagner
Dr. Florian Schmidt
Guest Editors

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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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