# Special Issue

# Laser in Agriculture

# Message from the Guest Editor

In agriculture, with broad potential applications as sensors, lasers can also be used to measure small changes in biological material through dynamic laser speckle, or biospeckle laser (BSL). The evaluation of seed viability and vigour or the identification of bruising in fruits and potatoes are some examples of biospeckle laser usage.

Similarly, the adoption of BSL to determine the bruising or maturity of fruits and the growth of roots in tissue cultures is often found in the literature. Other applications, such as the identification and control of parasites in wastewater from agricultural processes, can also be pointed out as a reliable use of biospeckle laser.

Besides interferometric techniques, it is possible to envision the application of a laser sheet (or line) to create a profile of samples and soil within a dedicated and commercial laser scanner or similar equipment developed in universities, as well as its use as a stimulating light to activate seed germination and other biological samples.

This Special Issue of Agriculture welcomes novel works regarding the use of lasers in agriculture, without any restrictions of their applications.

## **Guest Editor**

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## Deadline for manuscript submissions

closed (15 December 2023)



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# Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. Agriculture is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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