

Special Issue

Application of Laser-Ultrasonics in Metal Processing

Message from the Guest Editors

Since the development of the laser ultrasonic (LUS) technique in the 1980s and 1990s, the field has matured significantly. The key advantage of LUS is the unique feature of being able to measure material properties in a truly contactless manner with a working distance up to meters. This attractive feature has enabled commercialization in a broad range of areas and today there are available LUS systems for several industrial applications, e.g., wall thickness gauging for the extrusion of seamless pipes, real-time grain size monitoring in thermomechanical simulators, and the detection of defects in large components for the aviation industry. This research field contains a myriad of applications where laser ultrasound is a key enabler for understanding material processing and process behavior. This Special Issue concerns the application of laser ultrasonics in metal processing and we invite the whole laser ultrasonics community to submit contributions on this topic.

Guest Editors

Prof. Dr. Bevis Hutchinson
Swerim AB, Kista, Sweden

Dr. Malmström Mikael
Swerim AB, 164 40 Kista, Sweden

Dr. Lundin Peter
Swerim AB, 164 40 Kista, Sweden

Deadline for manuscript submissions

closed (30 April 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/111524

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

mdpi.com/journal/applsci





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)