



an Open Access Journal by MDPI

# **Cutting Tools: Materials, Development and Performance**

Guest Editors:

#### Prof. Dr. Mirosław Rucki

Institute of Mechanical Science, Vilnius Gediminas Technical University, Sauletekio al. 11, LT-10223 Vilnius, Lithuania

#### Dr. Edwin Gevorkyan

Technology of Materials, Ukrainian State University of Railway Transport, Kharkiv 61050, Ukraine

Deadline for manuscript submissions: closed (31 January 2023)

#### **Message from the Guest Editors**

Dear Colleagues,

This Special Issue of *Machines* invites high-quality research papers related to the topic of cutting tools, in particular:

- Energy- and resource-saving technologies for cutting tools fabrication;
- Powder metallurgy, including the synthesis of starting powders designed for the sintering of cutting inserts;
- Development of new materials for cutting tools, including ceramics, cermets, composites, etc., including machinery for their manufacturing;
- Theoretical and experimental research on processdependent structure formation at micro- and nanoscale;
- Surface engineering methods for cutting tools;
- Characterization of cutting tools performance (durability, cutting accuracy, surface integrity, wear mechanisms, etc.);
- Environmental issues such as EoL (end of life), sustainability, avoidance of pollution, and energy and resource efficiency.

**Special**sue

Dr. Mirosław Rucki *Guest Editor* 



mdpi.com/si/100155





an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Prof. Dr. Antonio J. Marques Cardoso

CISE—Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

### Message from the Editor-in-Chief

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

# **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), Inspec, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Control and Optimization)

# **Contact Us**

*Machines* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/machines machines@mdpi.com X@Machines\_MDPI