# Special Issue

# Recent Advances, Applications and Challenges on Coated Tools for Machining Processes

# Message from the Guest Editor

With globalization and technological evolution at a crazy speed, improving the characteristics of materials is essential to respond to new arising challenges. For the evolution of materials to keep up with the demand, it is very important to continue with studies on ways to create better advanced coatings, namely discovering new materials combinations, new multilavered structures, and graded coatings. Improving the characteristics of materials has been widely studied, as have coating techniques to offer combinations that in normal cases would not be possible in a single material. Thus, there are several interesting topics being developed every day. This Special Edition aims to bring together the latest advances through original and highquality work, capable of disclosing new developments in coating processes and machining results.

# **Guest Editor**

Dr. Gustavo F. Pinto

1. ISEP - School of Engineering, Polytechnic Institute of Porto, 4249-015 Porto, Portugal

2. INEGI - Science and Innovation in Mechanical and Industrial Engineering, 4200-465 Porto, Portugal

# Deadline for manuscript submissions

closed (20 October 2023)



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/100993

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

mdpi.com/journal/materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





# **About the Journal**

# Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

#### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
 Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## **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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### **Journal Rank:**

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)