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# **Tribology in Advanced Materials**

Guest Editors:

Prof. Dr. Kuniaki Dohda

Prof. Dr. Steven Schmid

Dr. Miguel Angel Selles Canto

Prof. Dr. Samuel Sanchez Caballero

Deadline for manuscript submissions:

20 December 2024

## **Message from the Guest Editors**

The Special Issue explores the intersection of materials science and tribology, focusing on how surface interactions affect manufacturing efficiency, durability, and performance.

The following key topics are covered in this Special Issue:

- Surface Engineering and Coatings: Investigating novel coatings and surface treatments to enhance wear resistance and reduce friction in manufacturing components.
- Lubrication Strategies: Analyzing lubricant formulations and their impact on machinery performance.
- Materials Selection and Design: Evaluating material properties, such as hardness, toughness, and thermal stability, in the context of tribological behavior. This Special Issue will explore how material selection influences wear rates and maintenance costs.
- Frictional Behavior in Machining and Forming: Understanding the role of friction during cutting, grinding, and forming operations. This Special Issue will provide strategies to minimize tool wear and improve the surface finish
- Wear Mechanisms and Failure Analysis: Investigating wear modes (abrasive, adhesive, fatigue, etc.) in manufacturing components.













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

#### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, OC H3A 0C7, Canada

## **Message from the Editor-in-Chief**

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Materials Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials\_Mdpi