

Special Issue

Mechanical Properties and Tribological Behavior of Alloy/Coatings

Message from the Guest Editors

The development of novel alloys/coatings that enable friction reduction and wear control between two interacting surfaces in relative motion, lubricated or unlubricated, is essential to increase the efficiency and extend the life of mechanical systems. Knowledge of the mechanical properties of novel alloys/coatings make it possible to anticipate their operational load range (in many cases) and the possible elastic/plastic deformations that may occur during the rubbing service. In addition, understanding of the physical and chemical surface interactions that occur between the contacting pairs opens the opportunity to propose and develop improvements in terms of materials and surface finish to decrease the energy consumption of technical equipment. Accordingly, we are launching this new Special Issue of *Coatings* which will collect original research articles. Contributions will focus on tribological studies and the mechanical properties of novel alloys/coatings. We look forward to receiving your contribution.

Guest Editors

Dr. Francisco J. Flores-Ruiz

CONACYT-Instituto de Física, Benemérita Universidad Autónoma de Puebla, Apdo. Post. J-48, Puebla 72570, Mexico

Dr. Saideep Muskeri

Department of Materials Science and Engineering, University of North Texas, Denton, TX 76203, USA

Deadline for manuscript submissions

closed (30 June 2024)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/120797

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

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





Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



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



About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)