Special Issue

Nanocomposite Films and Coatings for Aerospace Applications

Message from the Guest Editor

Multifunctional nanocomposite films and coatings can play a key role in protecting and safeguarding the various spacecraft components from the surrounding environment. These films and coatings have other potential uses, including in sensors, structural health monitoring and electromagnetic interference shielding. The topics of interest include but are not limited to the following:

- Anti-icing and UV protective coatings for aircrafts;
- Nanocomposite paints for aircraft and spacecraft;
- Manufacturing of films and coatings for aerospace applications;
- Nanocomposite films and coatings for mitigation of space effects such as oxygen atom attack, contamination, solar UV degradation, physical sputtering, spacecraft glow, spacecraft charging, radiation effects and hypervelocity impact damage on spacecraft surfaces;
- Experimental testing and numerical analysis to determine performance of nanocomposite films and coatings in service;
- Durability and reliability of films and coatings in operative aerospace environments.

Guest Editor

Prof. Dr. Susanna Laurenzi

Department of Astronautical Electrical and Energy Engineering, Sapienza University of Rome, Via Salaria 851-881, 00138 Rome, Italy

Deadline for manuscript submissions

closed (31 March 2022)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 5.0

mdpi.com/si/54261

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

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 5.0

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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

MDPI