

Special Issue

Properties and Applications of Surfaces/Components Engineered Using Thermal Spray, Welding, and Directed High Energy Beam Technologies

Message from the Guest Editors

Surface engineering refers to treatment of the surface and near-surface regions of a material by a comprehensive array of technologies to allow the surface to perform functions that are distinct from those functions demanded from the bulk of the material. There are two key categories of surface engineering approaches that can be used to enhance the surface properties of the bulk materials. These are surface coatings and surface modification. This special issue on the **"Properties and Applications of Surfaces/Components Engineered using Thermal Spray, Welding, and Directed High Energy Beam Technologies"** provides a forum for the publication of refereed material on both the theory and practice of these important enabling technologies, embracing science, technology and engineering. Coverage includes design, surface modification strategies, 3D component manufacturing, process control, characterization, properties of the final system or component, including quality control and non-destructive examination.

Guest Editors

Dr. Ramachandran Chidambaram Seshadri
Department of Materials Science and Engineering, Stony Brook University, Stony Brook, NY 11794, USA

Dr. A.K. Lakshminarayanan
Department of Mechanical Engineering, SSN College of Engineering, Chennai, India

Deadline for manuscript submissions

closed (30 June 2025)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/93830

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

Journal Rank:

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