



Advanced Thermal Spraying Technology

Guest Editors:

Dr. Lidia Baiamonte

Department of Chemical Engineering, Materials and Environment (DICMA), Sapienza University of Rome, Via Eudossiana, 18, 00184 Rome, Italy

Dr. Wen Sun

Institute of New Materials, Guangdong Academy of Sciences, Guangzhou, China

Deadline for manuscript submissions:

closed (28 February 2024)

Message from the Guest Editors

Thermal spray is a versatile family of deposition processes, useful to obtain coatings for several industrial applications – from naval to aeronautics and energy, and for protection from thermally harsh environments, as well as from wear and corrosion mechanisms, et.al. Through the years, the research around process parameters, materials to be deposited and coatings characterization never ceased attracting the interest of the scientific community. In fact, although thermal spray is a rather mainstream processing route, widely employed wherever either thermal or mechanical protection is needed, it still is a research hot topic due to its versatility and reliability.

This Special Issue aims to collect recent developments around thermal spray techniques. The topics of interest for this Special Issue, in particular, include (but are not restricted to):

- Novelties in the utilization of existing deposition processes;
- Modifications of the process parameters and configurations;
- New coatings formulations and compositions;
- Environmentally friendly processes and coatings;
- Novel applications of thermal spray coatings;
- Advancements in coatings characterization.





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

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.

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*)

Contact Us

Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI