



an Open Access Journal by MDPI

Advances in Coating Materials Research: From Preparation to Application

Guest Editors:

Dr. Sainan Liu

Prof. Dr. Lairong Xiao

Dr. Zhenyang Cai

Dr. Xiaojun Zhao

Dr. Wei Li

Deadline for manuscript
submissions:

closed (20 July 2023)

Message from the Guest Editors

With time passing by, metal surface will be corroded or worn, which causes series of problem. On the one hand, corrosion of metal surface will lead to equipment damage, pipeline leakage and product pollution. On the other hand, it may cause malignant accidents such as combustion or explosion as well as serious waste of resources and energy, which must cause huge losses to the national the national economy.

The development of material surface protection and strengthening technology is of great significance. Surface coating technology is one of the surface engineering technologies. Without changing the composition of the base material, this technology can improve some properties of the surface of the base material by some physical, chemical or other means, so as to protect the base material. It is a very promising surface modification method.

This Special Issue aims at covering recent progress and new developments in coating based metal materials, including composition design, preparation process, computational simulation and structural characterization. We kindly invite you to submit a manuscript(s) for this Special Issue. Full papers, communications, and reviews are all welcome.



mdpi.com/si/146361

Special Issue



an Open Access Journal by MDPI

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, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

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](https://twitter.com/Materials_Mdpi)