Special Issue

Surface Modification of Metallic Materials

Message from the Guest Editors

The increasing demand for high performance, increased lifetime, and reliability, as well as high energy efficiency and low environmental impact of metal-based engineering components has been fueling the growth of surface modification technologies in last few decades. While many overlay coatings and surface treatments for metallic materials are in commercial use, other emerging technologies and coating systems are still in research and development stage, aiming to achieve tailored surface properties for applications in different fields: aerospace, automotive/motorsport, energy generation, storage and management, biomedical and orthopedic implants, and robotics and automation. Another powerful driver for development of new surface modification technologies is the transition towards a more sustainable use of energy sources and raw materials. Therefore, in the Special Issue on “Surface Modification of Metallic Materials”, we will bring together a collection of works highlighting recent achievements on coatings and surface treatments for metallic materials, with a special focus on friction and wear control.

Guest Editors

Prof. Carla Martini
Alma Mater Studiorum Università di Bologna, Bologna, Italy

Dr. Ramona Sola
CIRI-MAM, Alma Mater Studiorum Università di Bologna, Bologna, Italy

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

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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.

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

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