Special Issue

Surface Engineering & Coating Technologies for Corrosion and Tribocorrosion Resistance

Message from the Guest Editor

Corrosion is one of the most damaging and costly material degradation problems in industry. Any damage to the passive film during service can lead to accelerated corrosion, which in turn can lead to accelerated wear. Thus, tribocorrosion is also a common degradation phenomenon in industry. Many efforts have been made for decades to tackle the corrosion and tribocorrosion problems. Among the many techniques developed, surface engineering and coating technologies are the most effective because material degradation due to corrosion is a surface- and subsurface-related problem. A surface engineering and coating system is a composite system comprising the surface layer, the subsurface zone and the substrate. Through the proper design and implementation of the surface coating, subsurface and substrate as a system, the corrosion and tribocorrosion resistance of engineering materials can be considerably enhanced. This Special Issue aims to bring together the latest developments in this technologically and economically important area, encompassing coating development, corrosion and tribocorrosion characterisation and industrial applications.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2023)

Materials

an Open Access Journal by MDPI

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CiteScore 5.8
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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.

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