

Joint 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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