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Corrosion and Tribocorrosion Behavior of Metals and Alloys

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Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

Tribocorrosion, a form of mechanically assisted corrosion, has been defined as the science of conjoint action of mechanical wear (abrasive or erosive) and (electro)chemical corrosion. The process involves a tribological contact occurring in a corrosive environment. The tribocontact disturbs (electro-)chemical reactions on the surface of the material (passive or actively corroding), resulting in complex degradation phenomena.

Research in tribocorrosion has gained attention due to its practical importance across many industries and applications, as well as its potential economic benefits, especially in the resource industry, or its automotive and biomedical applications. Despite the growing interest and significant progress in tribocorrosion studies, the testing methodologies are still largely non-standardized.

Currently, the only available standard method is the ASTM G119, which has several limitations.

This Special Issue aims to share the latest investigations focused on tribocorrosion and the associated localized corrosion of engineering alloys in challenging environments



