

## Special Issue

# Role of Metallurgy in the Biodegradation of Metal

### Message from the Guest Editor

This Special Issue of *Sci* from MDPI focuses on the role of the metallurgical history of steel and other metallic alloys in their bio- or regular degradation when these alloys are exposed to a corrosive environment. Topics of particular interest include:

- Understanding the fundamentals of biocorrosion of materials;
- Role of the metallurgical history of metallic alloys in their bio- or regular degradation;
- Dislocations and their detection in metals;
- Cold and hot rolling of steels and their role in localized corrosion;
- Applications of smart coatings to prevent corrosion;
- Next-generation steel manufacturing technologies;
- Bacterial colonization of steel and other metallic surfaces by pathogenic bacteria in food industries;
- Colonization of carbon steel and other metallic surfaces by bacteria and localized biodegradation of these surfaces;
- Next-generation antifouling agents;
- Rapid diagnostic methods to evaluate the propensity of steel and other surfaces towards localized corrosion;
- Rapid determination of the surface density of some inclusions, such as MnS, that contribute to localized corrosion.

### Guest Editor

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## About the Journal

### Message from the Editor-in-Chief

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