

## Special Issue

# Research on Corrosion Behavior of Metallic Materials

### Message from the Guest Editor

We are pleased to announce the Special Issue, “Research on Corrosion Behavior of Metallic Materials”, which will focus on various corrosion processes in metallic materials. The scope of this issue includes, but is not limited to, corrosion phenomena at high temperature, exposure to body fluid, immersion, and fog in an aggressive environment. Additionally, the influence of the metallic material fabrication on corrosion behavior will be a key topic in this Special Issue, including laser processing, additive manufacturing, welding, soldering, anodising, and surface treatment. This issue will also feature studies exploring the development of innovative electrochemical techniques to characterize the corrosion, such as electrochemical impedance spectroscopy, the Mott–Schottky method, and electrochemical noise. Furthermore, research is being conducted on novel corrosion inhibitors, including natural inhibitors and rare-earth inhibitors. In addition, the corrosion model studies will also be considered for this Special Issue.

### Guest Editor

Dr. Juan Ignacio Ahuir-Torres

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### Deadline for manuscript submissions

20 June 2026



## Materials

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## About the Journal

### 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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### Editor-in-Chief

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