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# Recent Advances on Microbial Interactions with Materials and Their Applications

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# Message from the Guest Editors

widespread Microorganisms are in both environments and artificial ecosystems. They coexist and interact with various materials, ultimately affecting the migration rate, circulation process and distribution state of those compounds. Microorganisms can migrate and biotransform metals by means of extracellular electron transfer and secretion of metabolites; they also promote biomineralization, microbiologically influenced corrosion (MIC), biofouling and bioleaching, among other processes. The interaction between microorganisms and materials also promotes the cycle of carbon, nitrogen, iron, sulfur and other elements. The corrosive microorganisms likely contribute to the cycling of carbon, iron and sulfur worldwide

Although there have been many achievements in this area in the past few decades, the interaction between metallic elements and microorganisms awaits further investigation.

In this Special Issue, we aim to present the latest findings on MIC, fouling, biomineralization, bioleaching, element cycling, etc. Submissions of high-quality original research, reviews, mini reviews, and perspective articles pertaining to this multi-disciplinary area are welcome.













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# Message from the Editor-in-Chief

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