

Special Issue

Microbes in Global Carbon, Sulfur, and Nitrogen Cycles

Message from the Guest Editor

Our planet is saturated with microbes. Microbes constitute an entire world unseen by the naked eye. However, the processes performed by microbes in this invisible world significantly affect our visible world. These processes include virtually every chemical reaction in the biosphere that constitutes the main biogeochemical cycles (carbon, nitrogen, sulfur). The biodiversity of microorganisms is highlighted, and their metabolic pathways based on exchanges and biotransformation of the elements (carbon, nitrogen, sulfur) within ecosystems need to be discussed. The impacts of human activities on the microbial actors and processes of biogeochemical cycles, as well as the cascading ecological effects (greenhouse gas emissions, acid rains, dystrophic crises, etc.), also need to be discussed.

The processes also involve interactions between organisms, both among microbes and between microbes and large organisms in biogeochemical cycles. These interactions are further affected by changes in climate. Therefore, we need to explore this world, the creatures that inhabit it, and the things they do.

Guest Editor

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