

Special Issue

Advances in Nanoscale Biogeocomplexity

Message from the Guest Editor

Soil organic matter represents the largest terrestrial carbon reservoir on Earth. Derived from incomplete combustion of organic matter, black carbon (BC or pyrogenic carbon, PyC) is predominantly composed of aromatic carbon and includes various pyrogenic products, such as biochar, charcoal, soot, and graphite. Black C is receiving worldwide study attention due to its importance in carbon sequestration, soil fertility improvement, and environmental contaminant remediation. The emerging incorporation of natural and synthetic nano mineral particles to organic carbon has opened up new perspectives in carbon cycling and environmental applications, especially for coping with contaminants. This Special Issue aims to attract interdisciplinary scientific inputs from a diverse background to boost the understanding of nanoscale organomineral interactions and metal–organic complexation. Mechanistic studies of the transformation of recalcitrant organic carbon and the catalytic transformation of contaminants are solicited.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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