



Mercury Biogeochemical Cycle in A Changing World

Guest Editor:

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Message from the Guest Editor

Mercury is a potent neurotoxicant. About 130 countries signed the Minamata Convention to reduce Hg emissions and to protect human health and the environment from its adverse effects. Understanding the biogeochemical factors controlling the fate of Hg is thus crucial to determine whether the reduction of Hg emissions might translate into decreases in Hg in aquatic systems and to predict future Hg and methylmercury concentrations in the environment and biota. Currently, there are still substantial knowledge gaps on current sources, speciation, fate and bioaccumulation of Hg in aquatic and terrestrial environments at a global scale. Papers for this Special issue may address novel aspects on processes driving Hg emissions, transformations and transport across terrestrial and aquatic ecosystems at a range of scales from the individual catchment to continents and oceans. Contributions that link these processes to risks for human health (i.e. food safety) are also encouraged. Studies may focus on local, regional, or global scales and Hg exposure to humans or other organisms in the environment.





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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

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