Special Issue

Platinum Group Elements in Aquatic Environments: Chemical Analyses, Biogeochemical Behaviour, and Ecotoxicological Effects

Message from the Guest Editors

The platinum group elements (PGE) are mostly used in automobile catalytic converters, but also in a number of other applications, including as catalysts in different chemical processes and in anticancer therapy, dental restoration, and electronic devices. This Special Issue invites original research papers and critical reviews providing new insights into the environmental processes and ecotoxicology of PGE. We particularly invite contributions concerning:

- Improvement of existing methods and development of new analytical strategies for the PGE quantification in different environmental matrices as well as for the identification of PGE species;
- Biogeochemical behaviour of PGE within aquatic ecosystems with emphasis on factors affecting PGE speciation and biological availability;
- (Bio)monitoring studies and identification of sensitive bioindicators for PGE contamination in aquatic systems;
- Studies on toxicokinetic aspects (absorption, distribution, metabolism, elimination) of PGE in aquatic organisms;
- Studies on the toxicity of PGE considering all organisational levels from molecules to ecosystems.

Guest Editors

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Prof. Dr. Bernd Sures

Deadline for manuscript submissions

closed (27 August 2021)

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

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