



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

Guest Editors:

Dr. Sonja Zimmermann

Universität Duisburg-Essen,
Essen, Germany

sonja.zimmermann@uni-due.de

Prof. Dr. Victor Wepener

Water Research Group, School of
Biological Sciences, North-West
University, 31750 Potchestroom,
South Africa

victor.wepener@nwu.ac.za

Prof. Dr. Bernd Sures

Universität Duisburg-Essen,
Essen, Germany

bernd.sures@uni-due.de

Deadline for manuscript
submissions:

closed (27 August 2021)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Yu-Pin Lin

Department of Bioenvironmental
Systems Engineering, National
Taiwan University, No. 1, Sec. 4,
Roosevelt Road, Taipei 10617,
Taiwan

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.

Author Benefits

Open Access:— free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [AGRICOLA](#), [AGRIS](#), [GeoRef](#), and many [other databases](#).

Journal Rank: [CiteScore](#) - Q1 (*Ecology, Evolution, Behavior and Systematics*)

Contact Us

Environments
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/environments
environments@mdpi.com