

Special Issue

Mineralogy of the Supergene Zone

Message from the Guest Editors

Supergene minerals form when rocks or buried primary orebodies are exposed at or near the Earth's surface and undergo oxidation, dissolution and reconcentration of elements. These interactions lead “immobile” elements to be concentrated and the released mobile cations to be recombined, forming supergene minerals. Supergene fluids change the distribution patterns of many elements, which diversifies the class mineralogy. It offers potential new mineral species to be discovered. The study of these minerals is important to reveal key information about earth-surface processes: element mobility, meteoric fluid-rock interactions, the oxidation-reduction process, landscape evolution and geodynamics, and critical roles of global climate regulation. They are also natural scavengers of toxic elements released in the environment and potential hosts of strategic and precious metals. Supergene ore-forming minerals have an economic importance at the first stage of mining activity: they increase the ore grade and ease the extraction process.

Guest Editors

Dr. Augustin Dekoninck

Department of Geology, University of Namur, 5000 Namur, Belgium

Dr. Flavien Choulet

Chrono-Environnement, Université Bourgogne Franche-Comté, 25000 Besançon, France

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
Germany

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