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# Stratabound Barite Deposits: Mineralogy, Isotope Geochemistry and Geochronology

Guest Editor:

#### Dr. Norman Moles

School of Applied Sciences, University of Brighton, Cockcroft Building, Lewes Road, Brighton BN2 4GJ, UK

Deadline for manuscript submissions: **30 November 2024** 

#### Message from the Guest Editor

Dear Colleagues,

Globally, a large proportion of mined barite is derived from strata-bound deposits hosted in carbonate, clastic, or volcanic rocks. Some of these deposits are 'world class' in terms of their tonnage. A thorough understanding of how such deposits formed is of great importance in guiding exploration for further resources. Equally important from an academic perspective is the information that stratabound barite can provide on past environments and diagenetic to hydrothermal processes, both in the Phanerozoic when marine sulfate was abundant and early in Earth's history when marine sulfate was scarce.

Carbonate-hosted strata-bound barite is often, though not everywhere, associated with epigenetic karst-fill or dissolution-replacement of Mississippi-valley-type (MVT) deposits and with diagenetic transitional to syngenetic Irish-type deposits. This Special Issue provides an opportunity for experts in the field to present mineralogical, isotopic, and geochronological evidence in support of their theories on ore formation in MV-, Irish- and CD-type strata bound barite (-Zn-Pb sulfide) deposits.









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# **Editor-in-Chief**

**Prof. Dr. Leonid Dubrovinsky** Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

#### Message from the Editor-in-Chief

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*Minerals* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/minerals minerals@mdpi.com X@Minerals\_MDPI/