



Thallium: Mineralogy, Geochemistry and Ore Processes

Guest Editors:

Dr. Cristian Biagioni

Dipartimento di Scienze della
Terra, Università di Pisa, Via
Santa Maria 53, I-56126 Pisa, Italy

**Assoc. Prof. Dr. Massimo
D'Orazio**

Dipartimento di Scienze della
Terra, Università di Pisa, Pisa,
Italy

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Message from the Guest Editors

Dear Colleagues,

Thallium ($Z = 81$) is either chalcophile or lithophile. It is widely distributed within the Earth's continental crust and is more abundant than other well-known elements, such as Ag, Sb, and Hg. Nonetheless, its availability is limited due to its tendency to substitute alkaline metals in rock-forming minerals. Consequently, the occurrence of thallium minerals or the presence of high-thallium concentrations within rocks should be considered as exceptional.

Such occurrences are of outstanding significance for both the environment and global economy. Indeed, thallium is toxic to living organisms, being more toxic to humans than other heavy elements. Notwithstanding its toxicity, thallium is a high-valued element (7200 \$·kg⁻¹ in 2015), owing to its applications in current and future high-tech industry. Therefore, it is fascinating chemistry, its high toxicity, and its increasing economic value make the element thallium and its compounds of particular interest and of environmental concern.





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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
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