

Special Issue

Geochemistry, Petrogenesis and Exploration of Li-Rich Granite-Pegmatite Systems

Message from the Guest Editors

Lithium-rich granites, and their very coarse-grained variants, pegmatites (also referred to as lithium–cesium–tantalum (LCT) pegmatites), are magmatic rock types generated from highly evolved, typically peraluminous, silicic melts. The high Li concentrations in granitic melts can accumulate through fractional crystallization leading to Li enrichment in residual melts. Lithium-rich pegmatites can crystallize from the residual melts of larger granitic plutons, or from low-degree partial melting of metasedimentary rocks during high-grade metamorphism (anatexis). Lithium-rich granite–pegmatites can host a variety of magmatic to hydrothermal deposit types containing Li minerals such as spodumene, petalite, eucryptite, amblygonite, lepidolite and zinnwaldite, and are also commonly rich in a range of other rare metals of economic importance. Lithium-rich granite–pegmatites have gained notable interest in the past decade due to the demand for battery-grade lithium. The aim of this Special Issue is to spotlight studies on the geochemical and petrological attributes of Li-rich granite–pegmatite systems and their exploration.

Guest Editors

Dr. William Keyser
Dr. Benedikt Steiner
Dr. Benjamin Hines

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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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