Special Issue

Advances in Plasma Source Mass Spectrometry and Applications in Geochemistry and Environmental Sciences

Message from the Guest Editor

Plasma source optical emission spectroscopy (ICP-OES) and mass spectrometry (ICP-MS) are standard techniques in major and trace chemical analysis. To date, the applications of ICP-OES and ICP-MS from method development to routine analyses have produced thousands of scientific papers concerning environmental chemistry and toxicology, geology, geochemistry and biogeochemistry, mineralogy, mineral geochemistry, geochronology, nanoscience and nanotechnology, and many other areas. Plasma source spectrometry continues to evolve with new capabilities as different opportunities and challenges in elemental analyses emerge. This Special Issue aims to provide a broad survey of current advances and address the future trends in the applications of ICP-OES and ICP-MS to environmental, geochemical, mineralogical analysis, and related fields. For readers, this Special Issue will serve as a readily accessible source on different aspects of applied ICP-OES and ICP-MS methodologies developed for introducing new paradigms in geochemical, mineralogical, and environmental analysis.

Guest Editor

Dr. Zikri Arslan
U.S. Geological Survey, Denver Federal Center, Denver, CO 80225, USA

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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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