



Electron Microbeam and X-ray Techniques: Advances and Applications

Guest Editors:

Dr. Donggao Zhao

School of Dentistry Electron
Microscope Laboratory and
Department of Earth and
Environmental, The University of
Missouri-Kansas City, Kansas
City, MO 64108, USA

Dr. Shuiyuan Yang

State Key Laboratory of
Geological Processes and Mineral
Resources, China University of
Geosciences, Wuhan 430074,
China

Dr. Zhenyu Chen

MNR Key Laboratory of
Metallogeny and Mineral
Assessment, Institute of Mineral
Resources, Chinese Academy of
Geological Sciences, Beijing
100037, China

Message from the Guest Editors

Dear Colleagues,

This Special Issue is about electron microbeam and X-ray techniques, and their latest advances and applications in characterizing natural and synthetic materials, such as minerals, rocks, mineral deposits, teeth and bones, and other biological materials or biomaterials. It will cover a wide range of related topics, including but not limited to scanning electron microscopy (SEM), environmental scanning electron microscopy (ESEM), electron probe microanalysis (EPMA/WDS/EDS), electron backscattered diffraction (EBSD), transmission electron microscopy (TEM), scanning transmission electron microscopy (STEM), electron energy loss spectroscopy (EELS), powder X-ray diffraction (XRD), and sample preparation methods.

Dr. Donggao Zhao
Dr. Shui-Yuan Yang
Dr. Zhenyu Chen
Guest Editors

Deadline for manuscript
submissions:

closed (15 December 2022)



mdpi.com/si/92337

Special Issue



Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Mining & Mineral Processing*) / CiteScore - Q2 (*Geology*)

Contact Us

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/](https://twitter.com/Minerals_MDPI/)