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Applications of LA-ICP-MS Imaging in the Geosciences

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Deadline for manuscript submissions:
closed (31 December 2017)

Message from the Guest Editors

Dear Colleagues,

In the last two decades, LA-ICP-MS has rapidly developed into a low-cost technique for the in situ measurement of trace elements and isotopes at the sub-ppm to ppm level in geological materials. Recent advances in mass spectrometry data-reduction packages and LA-ICP-MS instrumentation have facilitated the transition from spot analyses to the production of rapid high-resolution trace-element and/or isotope distribution maps. This Special Issue welcomes papers in the exciting and expanding field of LA-ICP-MS imaging in the geosciences. In particular, we solicit novel contributions applying LA-ICP-MS imaging to petrological (e.g., magmatic or ore systems), geochronological or palaeoenvironmental studies. Contributions focusing on recent advances in data-processing software or laser-ablation instrumentation (e.g., aerosol introduction systems) are also welcome.

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Guest Editors

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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.

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