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New Mineral Species and Their Crystal Structures

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Deadline for manuscript submissions:
closed (30 September 2018)

Message from the Guest Editors

Dear Colleagues,

We have the pleasure to invite you to participate in a Special Issue of *Minerals*, devoted to new minerals and their crystal structures. In comparison with more than a million inorganic synthetic compounds, the number of currently-known mineral species slightly exceeds 5000. Each discovery of a new mineral, studied in detail and accompanied with rigorous descriptions, seem to be an important scientific event. New minerals widen our knowledge on the forms of concentrations of different chemical elements, including the rarest ones, in natural systems. Many of them demonstrate novel, sometimes very unusual structure types and intriguing properties. New mineral species attract attention as sensitive indicators of physical and chemical conditions of rock-forming processes in geology and as potential prototypes of new crystalline materials in modern technologies. And, surely, mineral diversity is one of most wonderful phenomena of nature.

Prof. Dr. Irina O. Galuskina
Prof. Dr. Igor V. Pekov

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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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