Mineral Surface Reactions at the Nanoscale

Guest Editor:

**Dr. Christine V. Putnis**
Institut für Mineralogie, University of Münster, 48149 Münster, Germany
The Institute for Geoscience Research, Curtin University, 6845 Perth, Australia
putnisc@uni-muenster.de

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**Message from the Guest Editor**

Dear Colleagues,

Mineral surfaces are essential for a large range of important Earth processes. Apart from maintaining life they also control processes such as weathering of rocks and hence soil formation, biomineralization, the fate of contaminants and possible remediation strategies, including element sequestration, and on a larger scale, metamorphism, ore deposit formation and global element cycling. In recent years it has been through the development of advanced analytical methods that mineral surface reactions have been imaged and analyzed at the nanoscale. This has enabled exciting new possibilities for clarifying the mechanisms that govern mineral–fluid reactions. Industrial processes, environmental remediation and nuclear waste disposal methods, medical research and the pharmaceutical industry are all benefitting from the recent advances in understanding mineral surface reactions at the nanoscale. [...] 

Dr. Christine V. Putnis
*Guest Editor*
Editor-in-Chief

Prof. Dr. Paul Sylvester
Endowed Pevehouse Chair, Department of Geosciences, Texas Tech University, Lubbock, TX 79409-1053, USA

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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Contact Us

Minerals
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland
Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
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minerals@mdpi.com

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