



# European Mineralogical Union

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## EMU NOTES IN MINERALOGY

### New Volumes and New Editorial Policy

I am delighted to announce that the series EMU Notes in Mineralogy has resumed publication with a new organisation and editorial policy. The EMU Executive Committee recently approved a list of EMU schools for the coming years, which will generate new volumes. They will be presented in due time in *Elements* and on the EMU website, [www.univie.ac.at/Mineralogie/EMU/](http://www.univie.ac.at/Mineralogie/EMU/). Starting next year, however, the series will be open to host volumes originating from schools organised by other societies or groups of scientists in cooperation with the EMU. Proposals and editorial plans in any field of the mineralogical sciences should be sent to the new series editor, Giovanni Ferraris ([giovanni.ferraris@unito.it](mailto:giovanni.ferraris@unito.it)). In line with its tradition and to avoid overlap with other series, such as the RIM&G series published by MSA and GS, EMU Notes will be tailored not only to provide reviews of important and rapidly evolving topics but also to fit the requirements of master's and PhD courses. Also the process for recognition by the Institute for Scientific Information has been started.

A further important improvement is an agreement with the Mineralogical Society of Great Britain and Ireland, by which it will publish and distribute the new volumes of the series. Kevin Murphy is acting as technical editor of the new EMU Notes in Mineralogy and has started his job with an enthusiastic and collaborative attitude. EMU Notes will hereafter be sold online through the new MinSoc website in both paper and electronic versions; we are also considering distribution by single chapters.

The EMU Executive Committee is pleased with this effective joint venture, and is fostering collaboration with other member societies in the development of other initiatives. More details on the contents of older, recent and future EMU Notes volumes can be found on the EMU website.

**Roberta Oberti**, EMU President

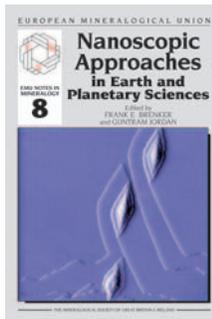
### Volume 8 Nanoscopic Approaches in Earth and Planetary Sciences

FRANK E. BRENKER and GUNTRAM JORDAN, editors

- R. Wirth: Focused ion beam (FIB): site-specific sample preparation, nano-analysis, nano-characterization and nano-machining
- F. E. Brenker: Nanopetrology of pyroxenes: reconstruction of geodynamic parameters using TEM techniques
- U. Golla-Schindler and P. A. van Aken: Electron energy-loss spectroscopy and energy-filtered transmission electron microscopy: Nanoscale determination of Fe<sup>3+</sup>/ΣFe ratios and valence-state mapping
- I. Lyon and T. Henkel: Secondary ion mass spectrometry – less conventional applications: TOF-SIMS, molecules and surfaces
- B. W. Sinha and P. Hoppe: Ion microprobe analysis: Basic principles, state-of-the-art instruments and recent applications with emphasis on the geosciences
- L. Vincze, G. Silversmit, B. Vekemans, R. Terzano and F. Brenker: Synchrotron radiation micro- and nano-spectroscopy
- C. M. Pina and G. Jordan: Reactivity of mineral surfaces at nano-scale: kinetics and mechanisms of growth and dissolution
- U. Becker, M. Reich and S. Biswas: Nanoparticle-host interactions in natural systems

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### Volume 9

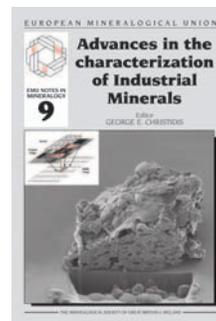
### Advances in the Characterization of Industrial Minerals

GEORGE CHRISTIDIS, editor

- P. W. Scott: The geological setting for industrial mineral resources
- D. L. Bish and M. Plötze: X-ray powder diffraction with emphasis on qualitative and quantitative analysis in industrial mineralogy
- J. R. Hart, Y. Zhu and E. Pirard: Particle size and shape characterization: current technology and practice
- K. Emmerich: Thermal analysis for characterization and processing of industrial minerals
- J. Madejová, E. Balan and S. Petit: Application of vibrational spectroscopy to the characterization of phyllosilicates and other industrial minerals
- M. I. Pownceby and C. M. MacRae: Electron microbeam analysis techniques used for the characterization of industrial minerals
- E. Pirard and P. Sardini: Image analysis for advanced characterization of industrial minerals and geomaterials
- G. E. Christidis: Industrial clays
- R. A. Schoonheydt and F. Bergaya: Industrial clay minerals as nanomaterials
- J. Elsen, G. Mertens and R. Snellings: Portland cement and other calcareous hydraulic binders: history, production and mineralogy

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### Volume 10

### Ion Partitioning in Ambient-Temperature Aqueous Systems

MANUEL PRIETO and HEATHER STOLL, editors

- M. Prieto: Thermodynamics of ion partitioning in solid solution–aqueous solution systems
- A. Putnis: Effects of kinetics and mechanisms of crystal growth on ion-partitioning in solid solution–aqueous solution (SS–AS) systems
- D. A. Kulik: Geochemical thermodynamic modelling of ion partitioning
- M. E. Böttcher and M. Dietzel: Metal-ion partitioning during low-temperature precipitation and dissolution of anhydrous carbonates and sulphates
- C. V. Putnis and L. Fernandez Diaz: Ion partitioning and element mobilization during mineral replacement reactions in natural and experimental systems
- C. Monnin and G. Hoareau: Chemical equilibrium between aqueous fluids and minerals in the marine environment
- I. J. Fairchild and A. Hartland: Trace element variations in stalagmites: controls by climate and by karst system processes
- A. Godelitsas and J. M. Astilleros: Dissolution, sorption/(re)precipitation, formation of solid solutions and crystal growth phenomena on mineral surfaces: implications for the removal of toxic metals from the environment
- E. H. Oelkers and S. R. Gislason: Water-CO<sub>2</sub>-rock interaction during carbon sequestration
- D. Bosbach: Solid-solution formation and the long-term safety of nuclear-waste disposal
- A. L. Cohen and G. A. Gaetani: Ion partitioning and the geochemistry of coral skeletons: solving the mystery of the vital effect
- H. M. Stoll: Ion partitioning and trace-element proxies in foraminifera and coccoliths

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