

Physics and Chemistry of Minerals

NO SUBMISSION FEE
FOR FULL COLOR ILLUSTRATIONS!



Springer

Editors

C.A. McCammon

Bayerisches GeoInstitut
Universität Bayreuth
95440 Bayreuth, Germany
e-mail: catherine.mccammon@uni-bayreuth.de

T. Tsuchiya

Geodynamics Research Center
Ehime University
2-5 Bunkyo-cho
Matsuyama 790-8577, Japan
e-mail: takut@sci.ehime-u.ac.jp

M. Rieder

Mimoňská 14 / 638
190 00 Praha 9 - Prosek
Czech Republic
e-mail: Milan_Rieder@JHU.edu

A. Kavner

Department of Earth and Space Sciences
University of California, Los Angeles
595 Charles Young Drive East, Box 951567
Los Angeles, CA 90095-1567
e-mail: akavner@ucla.edu

Founding Editors

S.S. Hafner, C.T. Prewitt and A.S. Marfunin

Physics and Chemistry of Minerals Volume 40 · Number 10 · November 2013

ORIGINAL PAPERS

On the presence of hydrous defects in differently coloured wulfenites ($PbMoO_4$): an infrared and optical spectroscopic study

D. Talla · M. Wildner · A. Beran · R. Škoda · Z. Losos **757**

The Loewenstein rule: the increase in electron kinetic energy as the reason for instability of Al-O-Al linkage in aluminosilicate zeolites

A.V. Larin **771**

Anomalous birefringence in andradite–grossular solid solutions: a quantum-mechanical approach

V. Lacivita · P. D'Arco · R. Orlando · R. Dovesi · A. Meyer **781**

Crystal chemistry of Sc-bearing synthetic diopsides

S. Nazzareni · H. Skogby · U. Hälenius **789**

High-temperature neutron diffraction study of deuterated brucite

H. Xu · Y. Zhao · D.D. Hickmott · N.J. Lane · S.C. Vogel · J. Zhang · L.L. Daemen **799**

In situ observation of a phase transition in Fe_2SiO_4 at high pressure and high temperature

S. Ono · T. Kikegawa · Y. Higo **811**

Structure and properties of rare earth silicates with the apatite structure at high pressure

F.X. Zhang · H.Y. Xiao · M. Lang · J.M. Zhang · Y. Zhang · W.J. Weber · R.C. Ewing **817**

Further articles can be found at link.springer.com

Indexed in Science Citation Index, Science Citation Index Expanded (SciSearch), SCOPUS, Astrophysics Data System (ADS), Chemical Abstracts Service (CAS), Google Scholar, EBSCO, Academic OneFile, ChemWeb, Current Abstracts, Current Contents/Physical, Chemical and Earth Sciences, El-Compendex, Gale, Geobase, GeoRef, INIS Atomindex, International Bibliography of Book Reviews (IBR), International Bibliography of Periodical Literature (IBZ), Journal Citation Reports/Science Edition, Materials Science Citation Index, OCLC, SCImago, Summon by Serial Solutions, VINITI - Russian Academy of Science

Instructions for authors for *Phys Chem Minerals* are available at www.springer.com/269



Springer