

TM
p59/2m

Volume 41 · Number 10 · November 2014

Physics and Chemistry of Minerals



Springer

Editors-in-Chief

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 41 · Number 10 · November 2014

ORIGINAL PAPERS

Effect of nano-hematite morphology on photocatalytic activity

Y.H. Chen · C.C. Lin **727**

High-pressure polymorphism and structural transitions of norsethite, BaMg(CO₃)₂

T. Pippinger · R. Miletich · H. Effenberger · G. Hofer · P. Lotti · M. Merlini **737**

In situ TEM observations of plastic deformation in quartz crystals

E. Tochigi · E. Zepeda-alarcon · H.-R. Wenk · A.M. Minor **757**

Interpretation of the EPR parameters through investigating the local lattice deformations for the two Pt³⁺ centers in ZnWO₄

C.-C. Ding · S.-Y. Wu · M.-Q. Kuang · Z.-H. Zhang · B.-H. Teng · M.-H. Wu **767**

Synthesis and characterization of high-pressure and high-temperature sphene (CaTiSiO₅)

J. Pantić · V. Urbanovich · V. Poharc-Logar · B. Jokić · M. Stojmenović · A. Kremenović · B. Matović **775**

The effect of cation ordering and temperature on the high-pressure behaviour of dolomite

A. Zucchini · P. Comodi · S. Nazzarení · M. Hanfland **783**

Lattice strain across Na-K interdiffusion fronts in alkali feldspar: an electron back-scatter diffraction study

A.-K. Schäffer · T. Jäpel · S. Zaeferer · R. Abart · D. Rhede **795**

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