



# Cambridge Core

The new home of  
Cambridge Journals  
[cambridge.org/core](https://www.cambridge.org/core)

Cambridge Core



CAMBRIDGE  
UNIVERSITY PRESS

### **Scope of the Journal**

Clay Minerals - Journal of Fine Particle Science publishes electronically and in paper form research papers about clays, clay minerals and related materials, natural or synthetic. Aspects covered include: Earth Processes (interactions in 'system earth' ± soil science, and geology/mineralogy) including genesis/synthesis, phase transformations, stability, weathering, soil-organic interactions, ion-exchange, basin analysis, clay petrology; Solid State Chemistry/Materials Science ± synthesis, structure and dynamics, reactivity, crystal chemistry, mechanical, thermal, electrical properties, micro and nanophase materials; Environmental Science ± analytical methods, elemental distribution, waste containment, health issues, environmental impact assessment, conservation of cultural heritage; Colloid/Surface Science ± adsorption, colloid stability, surface chemistry, reactivity; and Applied Science and Technology ± industrial uses and technical applications, including mining and processing of clay, zeolite (and other) deposits and application in ceramics, paper, paint, polymer, ion-exchange, sorption, catalysis etc.

### **Submission of manuscripts**

In a letter accompanying the manuscript, the submitting author must state that all authors agree with the final version of the manuscript. The letter must also state that the manuscript has not previously been published elsewhere, either in full or in part, and that, while under review for Clay Minerals, it will not be submitted to any other publication. Authors are encouraged to suggest up to three possible reviewers for their papers.

All manuscripts are to be submitted online at <http://www.edmgr.com/clayminerals/>. The current set of instructions for authors is available at: <https://www.cambridge.org/CLM>

All authors are allowed, free of charge, an e-print of their papers published in the journal.

### **Join the Mineralogical Society today**

If you are a regular reader of Clay Minerals consider joining the Society and receiving your own copy four times a year at a very modest cost. Membership currently starts at £55 per annum. For this, you will receive bi-monthly copies of Elements, our international membership magazine (in full colour) on mineralogy, geochemistry and petrology as well as online access to Mineralogical Magazine, Clay Minerals and Elements. You may also opt to pay an additional premium in order to continue receiving paper copies of our journals. Full details on how to join the Society and an application form can be found on the Society's website at [www.minersoc.org](http://www.minersoc.org). Membership of the Society introduces you to a vibrant community of those interested in the mineral sciences. Through membership of one or more of the Society's eight special interest groups you can take an active part in the Society's numerous scientific meetings and conferences as described on the website.

### **Mineralogical Society Journals**

#### *Mineralogical Magazine*

International journal of mineral sciences which covers the fields of mineralogy, crystallography, geochemistry, petrology, environmental geology and economic geology. This journal is available primarily as an e-journal.

#### *Clay Minerals*

International journal of clay minerals and fine particle science, published four times a year, including research papers about clays, clay minerals and related materials, natural or synthetic. The journal includes papers on Earth processes, soil science, geology/mineralogy, chemistry/material science, colloid/surface science and applied science and technology. The journal is available primarily as an e-journal.

### **Copyright**

For both the paper and electronic versions, copyright of all papers accepted shall be assigned to the Mineralogical Society before publication, except where Crown Copyright is reserved.

Typeset by Nova Techset Private Limited, Bengaluru and Chennai, India

Printed by Henry Ling Ltd., Dorchester, Dorset, UK

Published by Cambridge University Press, Shaftesbury Road, Cambridge, UK

## CONTENTS

### Articles

- MINGRONG CHEN, NAIWANG LIU, LI SHI and XUAN MENG: Removal of alkaline nitride from lubricating oil by modified clays 261
- AMR B. ELDEEB, VYACHESLAV N. BRICHKIN, MARTIN BERTAU, MAHMOUD E. AWAD and YULIA A. SAVINOVA: Enhanced alumina extraction from kaolin by thermochemical activation using charcoal 269
- NORIYUKI SONOYAMA, SHIZUKA YAMADA, TOMOKI OTA, HARUNA INAGAKI, PATRICK K. DEDETEMO and SATOSHI YOSHIDA: Preparation of layered double hydroxide films using an electrodeposition and subsequent crystal growth method 284
- HULYA KURU MUTLU and ATAKAN MUTLU: Analysis of tiles produced from a schist material and their ultraviolet, near-infrared, mid-infrared, longwave-infrared and far-infrared spectra 292
- ANDRÉ BIAVA COMIN, ALEXANDRE ZACCARON, VITOR DE SOUZA NANDI, JORDANA MARIOT INOCENTE, THUANI GESSER MULLER, ALEXANDRE GONÇALVES DAL BÓ, ADRIANO MICHAEL BERNARDIN and MICHAEL PETERSON: Measurement of apparent sintering activation energy for densification of clays 299
- Corrigendum
- BO WU and WEIJUAN ZHAO: Analysis of the chemical composition and phase structure of 'Ru-type ware' bodies under the influence of firing temperature – CORRIGENDUM 306

Cambridge Core

For further information about this journal  
please go to the journal website at:  
[cambridge.org/clm](https://www.cambridge.org/clm)



MIX  
Paper from  
responsible sources  
FSC™ C013985

**CAMBRIDGE**  
UNIVERSITY PRESS