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JOURNAL OF THE CLAY MINERALS SOCIETY

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SCOPE OF THE JOURNAL

CLAYS AND CLAY MINERALS is the official publication of **THE CLAY MINERALS SOCIETY**. From 1952 through 1967 the publication took the form of an annual Proceedings Volume composed mainly of the papers presented at the annual Clay Minerals Conferences. In 1968 the publication was expanded to a bi-monthly JOURNAL that is now published by the SOCIETY. The JOURNAL undertakes to publish all articles of interest to the international community of clay scientists, and manuscripts are welcome from all countries.

CLAYS AND CLAY MINERALS presents latest advances in research and technology concerning clays and other fine-grained minerals. Like its parent Society, the JOURNAL strives to promote the advancement of knowledge in many areas of clay science and technology, and it is therefore of value in mineralogy, crystallography, geology, geochemistry, sedimentology, soil science, agronomy, physical chemistry, colloid chemistry, ceramics, petroleum engineering, foundry engineering, soil mechanics, and other disciplines concerned with fine-grained mineral materials. Despite their different backgrounds and special interests, clay scientists and technologists have much in common, as their problems involve the structure, properties, origin, occurrence, and applications of the same minerals. **CLAYS AND CLAY MINERALS** exists to disseminate to its worldwide readership the most recent developments in all of these aspects of clay materials.

Manuscripts that are prepared in English in accordance with the ''Instructions for Contributors'' on the inside back cover of the JOURNAL should be submitted online at www.edmgr.com/ccm

SUBSCRIPTIONS AND SOCIETY MEMBERSHIP

Communications concerning new membership in **THE CLAY MINERALS SOCIETY** should be addressed to the **SOCIETY OFFICE**. Communications regarding existing memberships, new library subscriptions, change of address, non-receipt of issues, back issues and reprints should be directed to the **SUBSCRIPTION OFFICE**. Please quote your subscription code number in all correspondence. The subscription price for libraries, university departments, government laboratories, industrial firms, and other multiple-reader institutions is US $570.00 (North America), $625.00 (overseas). Bona-fide subscribing members of **THE CLAY MINERALS SOCIETY** receive the JOURNAL as part of their membership. **CLAYS AND CLAY MINERALS** is published bi-monthly by **THE CLAY MINERALS SOCIETY** and subscriptions are available on a calendar-year basis only. From 2013 onwards, the paper-copy issues of **CLAYS AND CLAY MINERALS** will be distributed in three mailings per year, in April, August, and December. Individual papers will continue to be published online as soon as they are ready and the journal will continue to publish six online issues per year. Subscription rates include surface mail delivery in North America and air freight or airmail delivery to all other parts of the world. Prices are subject to change without notice.

Cover design by John C. Burns (www.burnsdesignandstudio.com). CMS logo design by Timothy G. Phillips. Inset figure: Molecular dynamics simulation (upper-left figure) of Cl^- exclusion from (lower left figure) and Na^+ condensation in (lower right figure) the interlayer of montmorillonite. Anion exclusion predictions based on the Poisson-Boltzmann equation were consistent with the MD simulation results, if they included a distance of closest approach of ions to the clay mineral surface on the order of 2.0±0.8 Å (upper right figure). See ''Molecular dynamics simulations of anion exclusion in clay interlayer nanopores'' by Tournassat *et al.*, this issue.

♾ **This paper meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).**