

Volume 61 Number 2, 2013

**Contents**

Structural characterization of reduced-charge montmorillonites. Evidence based on FTIR spectroscopy, thermal behavior, and layer-charge systematics <i>Evangelos N. Skoubris, Georgios D. Chryssikos, George E. Christidis, and Vassilis Gionis</i>	83
Identification and quantification of the interaction mechanisms between the cationic surfactant HDTMA-Br and montmorillonite <i>Pablo M. Naranjo, Edgardo L. Sham, Enrique Rodríguez Castellón, Rosa M. Torres Sánchez, and Elsa M. Farfán Torres</i>	98
Thermal history of Lower Paleozoic rocks on the Peri-Tornquist margin of the East European Craton (Podolia, Ukraine) inferred from combined XRD, K-Ar, and AFT data <i>Jan Środoń, Mariusz Paszkowski, Daniel Drygant, Aneta Anczkiewicz, and Michał Banaś</i>	107
Quantitative <i>in situ</i> study of the dehydration of bentonite-bonded molding sands <i>Guntram Jordan, Constanze Eulenkamp, Elbio Calzada, Burkhard Schillinger, Markus Hoelzel, Alexander Gigler, Helge Stanjek, and Wolfgang W. Schmahl</i>	133
Mapping kaolinite and dickite in sandstone thin sections using infrared microspectroscopy <i>Valentin Robin, Sabine Petit, Daniel Beaufort, and Dimitri Prêt</i>	141
Anisotropic surface charging of chlorite surfaces <i>Xihui Yin, Lujie Yan, Jing Liu, Zhenghe Xu, and Jan D. Miller</i>	152