

# CLAY MINERALS

VOLUME 22, NUMBER 4, DECEMBER 1987

## CONTENTS

L. A. ASH, S. EVANS and A. G. HIORNS. Cation ordering in lepidolite and biotite studied by X-ray photoelectron diffraction	375
C. M. CARDILE. Structural studies of montmorillonites by <sup>57</sup> Fe Mössbauer spectroscopy	387
V. GANDAIS. Clay mineral sources of the Grenada Basin, Southeastern Caribbean	395
B. SCHWAIGHOFER and H. W. MÜLLER. Mineralogy and genesis of the Pugu Hill kaolin deposit, Tanzania	401
R. M. TAYLOR, B. A. MAHER and P. G. SELF. Magnetite in soils: I. The synthesis of single-domain and superparamagnetic magnetite	411
A. CORMA and J. PEREZ-PARIENTE. Catalytic activity of modified silicates: I. Dehydration of ethanol catalysed by acidic sepiolite	423
B. SIFFERT and A. NAIDJA. Décarboxylation catalytique de l'acide oxaloacétique en présence de montmorillonite	435
S. A. T. REDFERN. The kinetics of dehydroxylation of kaolinite	447
Y. LAPAQUELLERIE. Utilisation de la diffractometrie X pour la determination des constituants amorphes dans les sediments marins (silice biogene et cendres volcaniques)	457
G. BESSON, V. A. DRITS, L. G. DAYNYAK and B. B. SMOLIAR. Analysis of cation distribution in dioctahedral micaceous minerals on the basis of IR spectroscopy data	465
Note	
P. OLIVERA-PASTOR, E. RODRIGUEZ-CASTELLON and A. RODRIGUEZ-GARCIA. Interlayer complexes of lanthanide-vermiculites with amides	479
Book Reviews	485

ISSN 0009-8558

*Computer typeset by SB Datagraphics. Printed in Great Britain by  
Spottiswoode Ballantyne Printers Ltd*