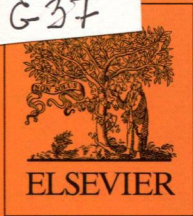


M
G-37



Geochimica et Cosmochimica Acta

JOURNAL OF THE GEOCHEMICAL SOCIETY
AND THE METEORITICAL SOCIETY

EXECUTIVE EDITOR: MARC NORMAN

ASSOCIATE
EDITORS:

HAGIT P. AFFEK
JEFFREY C. ALT
YURI AMELIN
LAWRENCE M. ANOVITZ
WOLFGANG BACH
MIRYAM BAR-MATTHEWS
THOMAS S. BIANCHI
RUTH BLAKE
JANNE BLICHERT-TOFT
JEAN-FRANÇOIS BOILY
ANDREW ROSS BOWIE
MAUD BOYET
Jochen J. BROCKS
PETE BURNARD
ROBERT H. BYRNE
ELIZABETH A. CANUEL
JEFFREY G. CATALANO
THURE CERLING

JON CHOROVER
NICOLAS DAUPHAS
ANTHONY DOSSETO
JAMES FARQUHAR
JÉRÔME GAILLARDET
CHRIS M. HALL
CHRIS HERD
GREGORY F. HERZOG
EDWARD HORNIBROOK
SHICHUN HUANG
DMITRI IONOV
TREVOR IRELAND
JUN-ICHIRO ISHIBASHI
ANDREW D. JACOBSON
BJØRN JAMTVEIT
KAREN JOHANNESSEN
CLARK JOHNSON
DAVID T. JOHNSTON

CHRISTOPHER S. KIM
CHRISTIAN KOEBERL
ALEXANDER N. KROT
TIMOTHY J. LYONS
TOM MCCOLLOM
FRANK McDERMOTT
ANDERS MEIBOM
JACK J. MIDDLEBURG
JOHN W. MOREAU
FREDERIC MOYNIER
ALFONSO MUCCI
ALEXANDER NEMCHIN
MARTIN NOVAK
RICHARD PANCOST
DIMITRI PAPANASTASSIOU
CAROLINE L. PEACOCK
ANN PEARSON
GLEB S. POKROVSKI

ERIC QUIRICO
MARK REHKAMPER
W. UWE REIMOLD
PETER W. REINERS
EDWARD M. RIPLEY
CLAIRE ROLLION-BARD
YAIR ROSENTHAL
SARA S. RUSSELL
NITA SAHAI
ORIT SAVAN
EDWIN A. SCHAUBLE
ALEX SESSIONS
SILKE SEVERMANN
TIMOTHY J. SHAW
DAVID L. SHUSTER
JAAP S. SINNINGHE DAMSTÉ
ORIT SIVAN
CARL STEEFEL

BRIAN W. STEWART
CLAUDINE STIRLING
WEIDONG SUN
FANG-ZHEN TENG
MICHAEL J. TOPLOS
BENJAMIN VAN MOOY
MARIO VILLALOBOS
WIM VAN WESTRENEH
RICHARD J. WALKER
JOSEF WERNE
STEFAN WEYER
JAN G. WIEDERHOLD
QING-ZHU YIN
CHEN ZHU

Volume 146

December 1, 2014

Y. A. UVAROVA, T. K. KYSER, M. L. GEAGEA, D. CHIPLEY: Variations in the uranium isotopic compositions of uranium ores from different types of uranium deposits	1
C. CORDIER, L. FOLCO: Oxygen isotopes in cosmic spherules and the composition of the near Earth interplanetary dust complex	18
E. A. BELL, T. M. HARRISON, I. E. KOHL, E. D. YOUNG: Eoarchean crustal evolution of the Jack Hills zircon source and loss of Hadean crust	27
K. T. GOTO, A. D. ANBAR, G. W. GORDON, S. J. ROMANIELLO, G. SHIMODA, Y. TAKAYA, A. TOKUMARU, T. NOZAKI, K. SUZUKI, S. MACHIDA, T. HANYU, A. USUI: Uranium isotope systematics of ferromanganese crusts in the Pacific Ocean: Implications for the marine ²³⁸ U/ ²³⁵ U isotope system	43
S.-A. LIU, F.-Z. TENG, S. LI, G.-J. WEI, J.-L. MA, D. LI: Copper and iron isotope fractionation during weathering and pedogenesis: Insights from saprolite profiles	59
K. HAGVALL, P. PERSSON, T. KARLSSON: Spectroscopic characterization of the coordination chemistry and hydrolysis of gallium(III) in the presence of aquatic organic matter	76
K. PRENTICE, T. D. JONES, J. LEES, J. YOUNG, P. BOWN, G. LANGER, S. FEARN, EIMF: Trace metal (Mg/Ca and Sr/Ca) analyses of single coccoliths by Secondary Ion Mass Spectrometry	90
E. F. BAZARKINA, G. S. POKROVSKI, J.-L. HAZEMANN: Structure, stability and geochemical role of palladium chloride complexes in hydrothermal fluids	107
H. JEON, I. S. WILLIAMS, V. C. BENNETT: Uncoupled O and Hf isotopic systems in zircon from the contrasting granite suites of the New England Orogen, eastern Australia: Implications for studies of Phanerozoic magma genesis	132
M. SAJJH, N. D. BRYAN, F. R. LIVENS, D. J. VAUGHAN, M. DESCOSTES, V. PHROMMAVANH, J. NOS, K. MORRIS: Adsorption of radium and barium on goethite and ferrihydrite: A kinetic and surface complexation modelling study	150
V. SCHOEPF, S. J. LEVAS, L. J. RODRIGUES, M. O. McBRIDE, M. D. ASCHAFFENBURG, Y. MATSUI, M. E. WARNER, A. D. HUGHES, A. G. GROTTOLI: Kinetic and metabolic isotope effects in coral skeletal carbon isotopes: A re-evaluation using experimental coral bleaching as a case study	164