

INTERESTING PAPERS IN OTHER JOURNALS  
Volume 101-4

ECONOMIC GEOLOGY prints partial tables of contents of a number of journals as an information service. *Please do not write to us to obtain copies of the journals or papers.* If you cannot arrange to get copies of interesting papers through your normal library sources, please contact the offices of the individual journals for assistance. Where possible, their U.S. addresses are given. Addresses are listed in Vol. 101, No. 1.

AAPG BULLETIN

Vol 90, No. 7, 2006

Reconstructing the architecture and sequence stratigraphy of the preserved fluvial record as a tool for reservoir development: A reality check—*Andrew D. Miall*\*\*\*989

Vol 90, No. 8, 2006

Reactivation of pressure-solution seams by a strike-slip fault-sequential, dilational jog formation and fluid flow—*A. John Watkinson and E. M. Geraghty Ward*\*\*\*1187

Geothermal convection in the Tengiz carbonate platform, Kazakhstan: Reactive transport models of diagenesis and reservoir quality—*Gareth D. Jones and Yitian Xiao*\*\*\*1251

AMERICAN JOURNAL OF SCIENCE

Vol 305, No. 6-8, 2005

Special Issue on Microbial Biogeochemistry: Introduction and overview—*Kenneth H. Nealson and Radu Popa*\*\*\*449

Biogeochemical signatures through time as inferred from whole microbial genomes—*Aubrey L. Zerkle, Christopher H. House, and Susan L. Brantley*\*\*\*467

Mineralogical footprints of microbial life—*Susanne Douglas*\*\*\*503

The co-evolution of the nitrogen, carbon and oxygen cycles in the Proterozoic ocean—*Katja Fennel, Mick Follows, and Paul G. Falkowski*\*\*\*526

The conundrum of marine N<sub>2</sub> fixation—*Claire Mahaffey, Anthony F. Michaels, and Douglas G. Capone*\*\*\*546

Biogeochemical cycling of phosphorus: Insights from oxygen isotope effects of phosphoenzymes—*Ruth E. Blake, James R. O'Neil, and Aleksandr V. Surkov*\*\*\*596

Computational chemistry applied to studies of organic contaminants in the environment: Examples based on benzo[a]pyrene—*James D. Kubicki*\*\*\*621

Multiple sulfur isotope fractionations in biological systems: A case study with sulfate reducers and sulfur disproportionators—*David T. Johnston, James Farquhar, Boswell A. Wing, Alan J. Kaufman, Donald E. Canfield, and Kirsten S. Habicht*\*\*\*645

Modeling apatite nucleation in the human body and in the geochemical environment—*Nita Sahai*\*\*\*661

Spectromicroscopy at the organic-inorganic interface in biominerals—*Gelsomina De Stasio, Margaret A. Schmitt, and Samuel H. Gellman*\*\*\*673

Putative mineral-specific proteins synthesized by a metal reducing bacterium—*Brian H. Lower, Michael F. Hochella, Jr., and Steven K. Lower*\*\*\*687

Biogenic dissolution of a soil cerium-phosphate mineral—*Javiera Cervini-Silva, David A. Fowle, and Jillian Banfield*\*\*\*711

Quantifying the relationship between microbial attachment and mineral surface dynamics using vertical scanning interferometry (VSI)—*K.J. Davis and A. Lüttge*\*\*\*727

Directed natural forces of affinity between a bacterium and mineral—*Steven K. Lower*\*\*\*752

Mineral surfaces and their implications for microbial attachment: Results from Monte Carlo simulations and direct surface observations—*A. Lüttge, L. Zhang, and K.H. Nealson*\*\*\*766

Interactions between mineral surfaces and dissolved species: From monovalent ions to complex organic molecules—*Udo Becker, Subhashis Biswas, Treavor Kendall, Peter Risthaus, Christine V. Putnis, and Carlos M. Pina*\*\*\*791

INTERESTING PAPERS IN OTHER JOURNALS VOL. 101:4

- A universal surface complexation framework for modeling proton binding onto bacterial surfaces in geologic settings—*David Borrok, Benjamin F. Turner, and Jeremy B. Fein*\*\*\*826  
Review of the surface chemical heterogeneity of bacteriogenic iron oxides: Proton and cadmium sorption—*Raul E. Martinez and F. Grant Ferris*\*\*\*854  
A different look at biogeochemistry—*Robert A. Berner*\*\*\*872

Vol 305, No. 9, 2005

- Stable isotope paleoaltimetry: A critical review—*Peter M. Blisniuk and Libby A. Stern*\*\*\*1033

Vol 306, No. 1-5, 2006

- Latitudinal variation of denudation in the evolution of the Bolivian Andes—*Jason B. Barnes and Jon D. Pelletier*\*\*\*1  
Controls on heat flow, fluid migration, and massive sulfide formation of an off-axis hydrothermal system—the Lau Basin perspective—*Christian Schardt, Ross Large, and Jianwen Yang*\*\*\*103  
MAGic: A Phanerozoic model for the geochemical cycling of major rock-forming components—*Rolf S. Arvidson, Fred T. Mackenzie, and Michael Guidry*\*\*\*135  
Bayesian geochemical discrimination of mafic volcanic rocks—*Jeffrey Shragge and Cameron A. Snow*\*\*\*191  
Inclusion of the weathering of volcanic rocks in the GEOCARBSULF model—*Robert A. Berner*\*\*\*295  
Geology, age and origin of supracrustal rocks at Akilia, west Greenland—*Craig E. Manning, Stephen J. Mojzsis, and T. Mark Harrison*\*\*\*303

AMERICAN MINERALOGIST

Vol. 91, No. 5-6, 2006

- Hourglass sector zoning in metamorphic tourmaline and resultant major and trace element fractionation—*Vincent J. van Hinsberg, John C. Schumacher, Stuart Kearns, Paul R.D. Mason, and Gerhard Franz*\*\*\*717  
Application of the simple salt lattice energy approximation to the solubility of minerals—*Claude H. Yoder and Jeffrey P. Rowand*\*\*\*747  
The effect of sodium on the solubilities of metals in silicate melts—*Alexander Borisov, Yann Lahaye, and Herbert Palme*\*\*\*762  
The structure and distribution of carbon in 3.5 Ga Apex chert: Implications for the biogenicity of Earth's oldest putative microfossils—*Bradley T. De Gregorio and Thomas G. Sharp*\*\*\*784  
Relationship among metamorphic grade, vesuvianite "rod polytypism," and vesuvianite composition—*Edwin Gnos and Thomas Armbruster*\*\*\*862  
Chivruaiite,  $\text{Ca}_4(\text{Ti,Nb})_5[(\text{Si}_6\text{O}_{17})_2](\text{OH},\text{O})_5] \cdot 13\text{-}14\text{H}_2\text{O}$ , a new mineral from hydrothermal veins of Khibiny and Lovozero alkaline massifs—*Yuri P. Men'shikov, Sergey V. Krivovichev, Yakov A. Pakhomovsky, Victor N. Yakovenchuk, Gregory Yu. Ivanyuk, Julia A. Mikhailova, Thomas Armbruster, and Ekaterina A. Selivanova*\*\*\*922  
Mn-tourmaline crystals from island of Elba (Italy): Growth history and growth marks—*Giovanna Agrosi, Ferdinando Bosi, Sergio Lucchesi, Giovanni Melchiorre, and Eugenio Scandale*\*\*\*944  
The oxidation state of vanadium in titanomagnetite from layered basic intrusions—*Etienne Balan, Johan P.R. De Villiers, Sigrid Griet Eeckhout, Pieter Glatzel, Michael J. Toplis, Emmanuel Fritsch, Thierry Allard, Laurence Galois, and Georges Calas*\*\*\*953

APPLIED EARTH SCIENCE: IMM TRANSACTIONS SECTION B

Vol. 115, No. 1, 2006

- Mercury-bearing manganiferous veinlets in compact haematite ore: the preliminary data from Fábrica deposit, Quadrilátero Ferrífero, Minas Gerais, Brazil—*A.R. Cabral and A.V. Corrêa Neto*\*\*\*1  
Dreikanter-like pebbles of haematite ore, Carajás, south-eastern Amazonia, Brazil—*A.R. Cabral, C.H.C. Costa, and J.C.S. Seoane*\*\*\*9  
Exploration drilling optimisation using geostatistics: a case in Jharia Coalfield, India—*K. Saikia and B.C. Sarkar*\*\*\*13

Petrochemical discrimination of evolved granitic intrusions associated with Mount Pleasant deposits, New Brunswick, Canada—  
*C.M.C. Inverno and R.W. Hutchinson*\*\*\*23

APPLIED GEOCHEMISTRY

Vol. 21, No. 6, 2006

Geochemistry of a tropical lake (Lake Leopoldo) on pseudo-karst topography within the Roraima Group, Guayana Shield, Venezuela—*Carlos Yanés, Haymara Alvarez, and Rudolf Jaffé*\*\*\*870

Microchemical characterisation of natural gold and artefact gold as a tool for provenancing prehistoric gold artefacts: A case study in Ireland—*R.J. Chapman, R.C. Leake, R.A. Warner, M.C. Cahill, N.R. Moles, C.A. Shell, and J.J. Taylor*\*\*\*904

Partitioning and mobility of trace metals in the Blesbokspruit: Impact assessment of dewatering of mine waters in the East Rand, South Africa—*Alakendra N. Roychoudhury and Michael F. Starke*\*\*\*1044

Impact of former mining activities on the uranium distribution in the River Saale (Germany)—*Martina Baborowski and Elke Bozau*\*\*\*1073

Vol. 21, No. 7, 2006

Estimation of potential pollution of waste mining dumps at Peña del Hierro (Pyrite Belt, SW Spain) as a base for future mitigation actions—*A. Romero, I. González, and E. Galán*\*\*\*1093

Geochemical evolution of solutions derived from experimental weathering of sulfide-bearing rocks—*LeeAnn Munk, Gunter Faure, and Randolph Koski*\*\*\*1123

Elemental sulfur in drain sediments associated with acid sulfate soils—*Edward D. Burton, Richard T. Bush, and Leigh A. Sullivan*\*\*\*1240

AQUATIC CHEMISTRY

Vol. 12, No. 3, 2006

On the direction and magnitude of oxygen isotope fractionation between calcite and aragonite at thermodynamic equilibrium—*Gen-Tao Zhou and Yong-Fei Zheng*\*\*\*239

The removal of dissolved metals by hydroxysulphate precipitates during oxidation and neutralization of acid mine waters, Iberian pyrite belt—*J. Sánchez España, E. López Pamo, E. Santofimia Pastor, J. Reyes Andrés and J.A. Martín Rubí*\*\*\*269

ATLANTIC GEOLOGY

Vol. 42, No. 1, 2006

The origin of mafic-ultramafic bodies within the northern Dashwoods Subzone, Newfoundland Appalachians—*C. Johan Lissenberg, Vicki J. McNicoll, and Cees R. van Staal*\*\*\*1

Petrology, geochemistry, and U-Pb (zircon) age of the quartz-feldspar porphyry dyke at the Lake George antimony mine, New Brunswick: implications for origin, emplacement process, and mineralization—*P.R.R. Leonard, D.R. Lentz, and M. Poujol*\*\*\*13

A Lower Carboniferous two-stage extensional basin along the Avalon–Meguma terrane boundary: evidence from southeastern Isle Madame, Nova Scotia—*Eric R. Force and Sandra M. Barr*\*\*\*53

AUSTRALIAN JOURNAL OF EARTH SCIENCES

Vol. 53, No.4, 2006

- Investigation of anthropogenic trace metals in sediments of Lake Illawarra, New South Wales—*A.C. Gillis and G.F. Birch*\*\*\*523  
Kenn Plateau off northeast Australia: a continental fragment in the southwest Pacific jigsaw—*N.F. Exon, P.J. Hill, Y. Lafoy, C. Heine, and G. Bernardel*\*\*\*541  
Insights into the structure of the upper mantle beneath the Murray basin from 3D teleseismic tomography—*N. Rawlinson, B.L.N. Kennett, and M. Heintz*\*\*\*595  
Phreatomagmatic boulder conglomerates at the tip of the ca 2772 Ma Black range dolerite dyke, Pilbara Craton, Western Australia—*M.J. Van Kranendonk, W. Bleeker, and J. Ketchum*\*\*\*617  
Whole-rock geochemistry of the Hili Manu peridotite, East Timor: implications for the origin of Timor ophiolites—*T.J. Falloon, R.F. Berry, P. Robinson, and A.J. Stolz*\*\*\*637

BULLETIN OF VOLCANOLOGY

Vol. 69, No. 1, 2006

- An analogue experimental model of depth fluctuations in lava lakes—*Fred Witham, Andrew W. Woods, and Charlotte Gladstone*\*\*\*41  
Geochemistry and magmatic properties of eruption episodes from Haroharo linear vent zone, Okataina Volcanic Centre, New Zealand during the last 10 kyr—*Victoria C. Smith, Phil Shane, Ian A. Nairn, and Catherine M. Williams*\*\*\*51

CANADIAN MINERALOGIST

Vol. 44, No.2, 2006

- Diamond from the Los Coquitos area, Bolivar State, Venezuela—*F.V. Kaminsky, O.D. Zakharchenko, G.K. Khachatryan, W.L. Griffin, and D.M. Der. Channer*\*\*\*323  
Zoned tourmaline associated with cassiterite: implications for fluid evolution and tin mineralization in the San Rafael Sn-Cu deposit, southeastern Peru—*M.S.J. Mlynarczyk and A.E. Williams-Jones* \*\*\*347  
New occurrences of tellurides and argyrodite at Rosia Montana, Apuseni Mountains, Romania, and their metallogenic significance—*C.G. Tămaș, L. Bailly, L. Ghegari, G. O'Connor, and A. Minuț*\*\*\*367  
Platinum-palladium nuggets and mercury-rich palladiferous platinum from Serro, Minas Gerais, Brazil—*A.R. Cabral, G. Beaudoin, R. Kwitko-Ribeiro, B. Lehmann, J.C. Polônia, and M. Choquette* \*\*\*385  
Phosphide solid-solutions within the metal-rich portion of the quaternary system Co-Fe-Ni-P at 800°C, and mineralogical implications—*M. Drábek*\*\*\*399  
Dissolution of uranyl-oxide-hydroxy-hydrate minerals—*I. Curite M. Schindler, P. Mandaliev, F.C. Hawthorne, and A. Putnis*\*\*\*415  
Rare sulfosalts from Vulcano, Aeolian Islands, Italy. VII. Cl-bearing galenobismutite—*D. Pinto, T. Balić-Žunić, E. Bonaccorsi, Yu.S. Borodaev, A. Garavelli, C. Garbarino, E. Makovicky, N.N. Mozgova, and F. Vurro*\*\*\*443  
Emilite,  $\text{Cu}_{10.72}\text{Pb}_{10.72}\text{Bi}_{21.28}\text{S}_{48}$ , the last missing link of the bismuthinite-aikinite series?—*D. Topa, W.H. Paar, and T. Balić-Žunić*\*\*\*459  
Lemanskiite,  $\text{NaCaCu}_5(\text{AsO}_4)_4\text{Cl}\cdot 5\text{H}_2\text{O}$ , a new mineral species from the Abundancia mine, Chile—*P. Ondruš, F. Veselovsky, R. Skála, J. Sejkora, R. Pažout, J. Fryda, A. Gabašová and J. Vajdak*\*\*\*523

CATENA

Vol. 65, No. 2, 2006

- Special Issue on Geomorphology and Land Degradation—*Paul F. Hudson and Irasema Alcántara-Ayala*\*\*\*102

CHEMICAL GEOLOGY

Vol. 228, No. 4, 2006

- A chlorine isotope study of DSDP/ODP serpentinized ultramafic rocks: Insights into the serpentinization process—*J.D. Barnes and Z.D. Sharp*\*\*\*246
- Comment on “The magmatic-hydrothermal transition—evidence from quartz porphyritic textures and endoskarn abundance in Cu–Zn skarns at the Empire Mine, Idaho, USA” by Z. Chang and L.D. Meinert, *Chem. Geol.* (2004) 210, 149–171—*Michael J. Nicholl and Thomas Williams*\*\*\*286

Vol. 229, No. 1-3, 2006

- Special Issue on Physics, Chemistry and Rheology of Silicate Melts and Glasses—*Roberto Moretti, Pascal Richet, and Jonathan F. Stebbins*\*\*\*1
- Solubility and speciation of C–O–H fluids in andesitic melt at T = 1100–1300°C and P = 200 and 500 MPa—*R.E. Botcharnikov, H. Behrens, and F. Holtz*\*\*\*125

Vol. 229, No. 4, 2006

- Melting of subducted continent: Element and isotopic evidence for a genetic relationship between Neoproterozoic and Mesozoic granitoids in the Sulu orogen—*Jie Huang, Yong-Fei Zheng, Zi-Fu Zhao, Yuan-Bao Wu, Jian-Bo Zhou, and Xiaoming Liu*\*\*\*227
- Sulfur biogeochemistry and isotopic fractionation in shallow groundwater and sediments of Owens Dry Lake, California—*Ji-hun Ryu, Robert A. Zierenberg, Randy A. Dahlgren, and Suduan Gao*\*\*\*257
- Na depletion in modern adakites via melt / rock reaction within the sub-arc mantle—*X.L. Xiong, B. Xia, J.F. Xu, H.C. Niu, and W.S. Xiao*\*\*\*273
- Mineral control of arsenic content in thermal waters from volcano-hosted hydrothermal systems: Insights from island of Ischia and Phlegrean Fields (Campanian Volcanic Province, Italy)—*A. Aiuppa, R. Avino, L. Brusca, S. Caliro, G. Chiodini, W. D'Alessandro, R. Favara, C. Federico, W. Ginevra, S. Inguaggiato et al.*\*\*\*313
- Low temperature volatile production at the Lost City Hydrothermal Field, evidence from a hydrogen stable isotope geothermometer—*Giora Proskurowski, Marvin D. Lilley, Deborah S. Kelley, and Eric J. Olson*\*\*\*331
- Dissolution of lead- and lead–arsenic-jarosites at pH 2 and 8 and 20°C: Insights from batch experiments—*Adrian M.L. Smith, William E. Dubbin, Kate Wright, and Karen A. Hudson-Edwards*\*\*\*344

CLAY MINERALS

Vol. 41, No. 1, 2006

- Clay mineralogy of the Old Red Sandstone and Devonian sedimentary rocks of Wales, Scotland and England—*S. Hillier, M.J. Wilson, and R.J. Merriman*\*\*\*433

Vol. 41, No. 1, 2006

- Why are clay minerals small?—*A. Meunier*\*\*\*551
- Origin and formation of kaolin minerals in saprolite of Tertiary alkaline volcanic rocks, Eastern Pontides, NE Turkey—*M. Arslan, S. Kadir, E. Abdioglu, and H. Kolayli*\*\*\*597
- Early diagenetic illitization of illite-smectite in Cretaceous sediments (Israel): evidence from K–Ar dating—*A. Sandler and Y. Harlavan*\*\*\*637
- K–Ar evidence for a Mesozoic thermal event superimposed on burial diagenesis of the Upper Silesia Coal Basin—*J. Srodon, N. Clauer, M. Banas, and A. Wójtowicz*\*\*\*669

COMPUTERS & GEOSCIENCES

Vol. 32, No. 8, 2006

WinClastour—a Visual Basic program for tourmaline formula calculation and classification—*Fuat Yavuz, Vural Yavuz, and Ahmet Sasmaz*\*\*\*1156

CONTRIBUTIONS TO MINERALOGY AND PETROLOGY

Vol. 151, No. 6, 2006

Oxygen isotope evidence for subduction and rift-related mantle metasomatism beneath the Colorado Plateau–Rio Grande rift transition—*George B. Perkins, Zachary D. Sharp, and Jane Selverstone*\*\*\*633

The origin of reaction textures in mantle peridotite xenoliths from Sal Island, Cape Verde: the case for “metasomatism” by the host lava—*Cliff S.J. Shaw, Florian Heidelbach, and Donald B. Dingwell*\*\*\* 681

Magma genesis and crustal contamination of continental intraplate lavas in northwestern Syria—*M.-S. Krienitz, K.M. Haase, K. Mezger, V. Eckardt, and M.A. Shaikh-Mashail*\*\*\*698

Petrogenesis of highly depleted peridotites and gabbroic rocks from the Mayari-Baracoa Ophiolitic Belt (eastern Cuba)—*Claudio Marchesi, Carlos J. Garrido, Marguerite Godard, Joaquín A. Proenza, Fernando Gervilla, and Jesús Blanco-Moreno*\*\*\*717

Archean diamonds from Wawa (Canada): samples from deep cratonic roots predating cratonization of the Superior Province—*Thomas Stachel, Anetta Banas, Karlis Muehlenbachs, Stephan Kurszlauskis, and Edward C. Walker*\*\*\*737

The source of granitic gneisses and migmatites in the Antarctic Peninsula: a combined U–Pb SHRIMP and laser ablation Hf isotope study of complex zircons—*M.J. Flowerdew, I.L. Millar, A.P.M. Vaughan, M.S.A. Horstwood, and C.M. Fanning*\*\*\*751

Vol. 152, No. 1, 2006

The geodynamic evolution of the Southern European Variscides: constraints from the U/Pb geochronology and geochemistry of the lower Palaeozoic magmatic-sedimentary sequences of Sardinia (Italy)—*Folco Giacomini, Rosa Maria Bomparola, Claudio Ghezzo, and Hans Gulbrandsen*\*\*\*9

Geochemistry of the Emeishan flood basalts at Yangliuping, Sichuan, SW China: implications for sulfide segregation—*Xie-Yan Song, Mei-Fu Zhou, Reid R. Keays, Zhi-Min Cao, Min Sun, and Liang Qi*\*\*\*53

U–Pb zircon ages, geochemical and isotopic compositions of granitoids in Songpan–Garze fold belt, eastern Tibetan Plateau: constraints on petrogenesis and tectonic evolution of the basement—*Hong-Fei Zhang, Li Zhang, Nigel Harris, Lan-Lan Jin, and Honglin Yuan*\*\*\*75

The Mesoproterozoic Midsommørsø dolerites and associated high-silica intrusions, North Greenland: crustal melting, contamination and hydrothermal alteration—*Feiko Kalsbeek and Robert Frei*\*\*\*89

DOKLADY EARTH SCIENCES

Vol. 409, No. 5, 2006

Isotope age of subvolcanic granitoid rocks of the Early Proterozoic Panarchka volcanotectonic structure, Kola Peninsula—*P.K. Skuf'in, T.B. Bayanova, and F.P. Mitrofanov*\*\*\*774

Diamondiferous xenoliths and megacrysts from the Nyurbinskaya kimberlite pipe (Nakynsky field, Yakutia)—*Z.V. Spetsius, A.S. Ivanov, and S.I. Mityukhin*\*\*\*779

Sm–Nd age of dunitite–clinopyroxenite–tylaite association of the Kytlym massif, the platinum belt of the Urals—*V.S. Popov and B.V. Belyatsky*\*\*\*795

Petrogenesis of gold-bearing dioritoids of the Ketkap–Yuna magmatic province, Aldan Shield—*V.F. Polin, A.I. Khanchuk, S.I. Dril, G.P. Sandimirova, and L.S. Tsurikova*\*\*\*824

EARTH AND PLANETARY SCIENCE LETTERS

Vol. 244, No. 3-4, 2006

- Interpretation of apatite (U–Th)/He ages and fission track ages from cratons—*P.F. Green and I.R. Duddy*\*\*\*541  
 Source versus differentiation controls on U-series disequilibria: Insights from Cotopaxi Volcano, Ecuador—*Jennifer Garrison, Jon Davidson, Mary Reid, and Simon Turner*\*\*\*548  
 Ancient melt extraction from the oceanic upper mantle revealed by Re–Os isotopes in abyssal peridotites from the Mid-Atlantic ridge—*Jason Harvey, Abdelmouhcine Gannoun, Kevin W. Burton, Nick W. Rogers, Olivier Alard, and Ian J. Parkinson*\*\*\*606  
 Numerical investigation of the effect of heterogeneous permeability distributions on free convection in the hydrothermal system at Mount Isa, Australia—*Michael Kühn, Florian Dobert, and Klaus Gessner*\*\*\*655  
 P–V–T relationships and mineral equilibria in inclusions in minerals—*Michel Guiraud and Roger Powell*\*\*\*683

Vol. 245, No. 1-2, 2006

- Mean age of oceanic lithosphere drives eustatic sea-level change since Pangea breakup—*Jean-Pascal Cogné, Eric Humler, and Vincent Courtillot*\*\*\*115  
 Fracture networks and hydrate distribution at Hydrate Ridge, Oregon—*Jill L. Weinberger and Kevin M. Brown*\*\*\*123  
 Correlated trace element–Pb isotope enrichments in Indian MORB along 18–20°S, Central Indian Ridge—*F. Nauret, W. Abouchami, S.J.G. Galer, A.W. Hofmann, C. Hémond, C. Chauvel, and J. Dymet*\*\*\*137  
 Silicon isotopes in ~3.8 Ga West Greenland rocks as clues to the Eoarchaeon supracrustal Si cycle—*Luc André, Damien Cardinal, Laurent Y. Alleman and Stephen Moorbath*\*\*\*162  
 Understanding cratonic flood basalts—*Paul G. Silver, Mark D. Behn, Katherine Kelley, Mark Schmitz, and Brian Savage*\*\*\*190  
 Evidence for hydrothermal venting in Fe isotope compositions of the deep Pacific Ocean through time—*N.-C. Chu, C.M. Johnson, B.L. Beard, C.R. German, R.W. Nesbitt, M. Frank, Marcel Bohn, P.W. Kubik, A. Usui, and I. Graham*\*\*\*202  
 The dynamics of mid-ocean ridge hydrothermal systems: Splitting plumes and fluctuating vent temperatures—*Dim Coumou, Thomas Driesner, Sebastian Geiger, Christoph A. Heinrich, and Stephan Matthäi*\*\*\*218  
 Transient formation fluid pressures and temperatures in the Costa Rica forearc prism and subducting oceanic basement: CORK monitoring at ODP Sites 1253 and 1255—*Earl E. Davis and Heinrich W. Villinger*\*\*\*232  
 Time constraints on the origin of large volume basalts derived from O-isotope and trace element mineral zoning and U-series disequilibria in the Laki and Grímsvötn volcanic system—*Ilya N. Bindeman, Olgeir Sigmarsson, and John Eiler*\*\*\*245  
 Strontium isotopes in melt inclusions from Samoan basalts: Implications for heterogeneity in the Samoan plume—*Matthew G. Jackson and Stanley R. Hart*\*\*\*260  
 Bubble nucleation as a trigger for xenolith entrapment in mantle melts—*Nadav G. Lensky, Ron W. Niebo, John R. Holloway, Vladimir Lyakhovskiy, and Oded Navon*\*\*\*278  
 Depleted lithosphere, cold, trapped asthenosphere, and frozen melt puddles above the flat slab in central Chile and Argentina—*Lara S. Wagner, Susan Beck, George Zandt, and Mihai N. Ducea*\*\*\*289  
 Modeling lower mantle anisotropy development in a subducting slab—*H.-R. Wenk, S. Speziale, A.K. McNamara, and E.J. Garnero*\*\*\*302  
 Asymmetric rifts due to asymmetric Mohos: An experimental approach—*Giacomo Corti and Piero Manetti*\*\*\*315  
 Plate bending at subduction zones: Consequences for the direction of plate motions—*Bruce A. Buffett and David B. Rowley*\*\*\*359  
 Comment on “U–Pb geochronology of the Acatlán Complex and implications for the Paleozoic paleogeography and tectonic evolution of southern Mexico” by O. Talavera-Mendoza, J. Ruíz, G.E. Gehrels, D.M. Meza-Figueroa, R. Vega-Granillo and M.F. Campa-Uranga [Earth Planet. Sci. Lett. 235 (2005) 682–699]—*R. Damian Nance, Brent V. Miller, J. Duncan Keppie, J. Brendan Murphy, and Jaroslav Dostal*\*\*\*471  
 Reply to comment on “U–Pb geochronology of the Acatlán Complex and implications for the Paleozoic paleogeography and tectonic evolution of southern Mexico” by Talavera et al.—*Oscar Talavera-Mendoza, Joaquín Ruíz, George E. Gehrels, Diana M. Meza-Figueroa, Ricardo Vega-Granillo, and Victor A. Valencia*\*\*\*476

Vol. 245, No. 3-4, 2006

- The first measurements of hydrothermal heat output at 9°50'N, East Pacific Rise—*Pierre Ramondenc, Leonid N. Germanovich, Karen L. Von Damm and Robert P. Lowell*\*\*\*487

INTERESTING PAPERS IN OTHER JOURNALS VOL. 101:4

- Recharge/discharge interface of a secondary hydrothermal circulation in the Suiyo Seamount of the Izu-Bonin arc, identified by submersible-operated heat flow measurements—*M. Kinoshita, Y. Kawada, A. Tanaka, and T. Urabe*\*\*\*498
- In situ sensing of methane emissions from natural marine hydrocarbon seeps: A potential remote sensing technology—*Ira Leifer, Dar Roberts, Jack Margolis, and Frank Kinnaman*\*\*\*509
- Sulfur cycling in the aftermath of a 635-Ma snowball glaciation: Evidence for a syn-glacial sulfidic deep ocean—*Matthew T. Hurtgen, Galen P. Halverson, Michael A. Arthur, and Paul F. Hoffman*\*\*\*551
- Opposing trends in crustal thickness and spreading rate along the back-arc Eastern Lau Spreading Center: Implications for controls on ridge morphology, faulting, and hydrothermal activity—*Fernando Martinez, Brian Taylor, Edward T. Baker, Joseph A. Resing, and Sharon L. Walker*\*\*\*655
- Osborn Trough: Structure, geochemistry and implications of a mid-Cretaceous paleospreading ridge in the South Pacific—*Tim J. Worthington, Roger Hekinian, Peter Stoffers, Thomas Kuhn, and Folkmar Hauff*\*\*\*685
- Timing of gold and crustal evolution of the Palaeozoic south central Andes, NW Argentina—implications for the endowment of orogenic belts—*Frank P. Bierlein, Holly J. Stein, Beatriz Coira, and Peter Reynolds*\*\*\*702
- Osmium isotope systematics of the Proterozoic and Phanerozoic ophiolitic chromitites: In situ ion probe analysis of primary Os-rich PGM—*Ahmed H. Ahmed, Karen Hanghøj, Peter B. Kelemen, Stanley R. Hart, and Shoji Arai*\*\*\*777

EARTH-SCIENCE REVIEWS

Vol. 76, No. 3-4, 2006

- Pan-Gondwanaland detrital zircons from Australia analysed for Hf-isotopes and trace elements reflect an ice-covered Antarctic provenance of 700–500 Ma age, TDM of 2.0–1.0 Ga, and alkaline affinity—*J.J. Veevers, E.A. Belousova, A. Saeed, K. Sircombe, A.F. Cooper, and S.E. Read*\*\*\*135
- A Late Cretaceous and Cenozoic reconstruction of the Southwest Pacific region: Tectonics controlled by subduction and slab rollback processes—*W.P. Schellart, G.S. Lister, and V.G. Toy*\*\*\*191
- Gondwanide continental collision and the origin of Patagonia—*R.J. Pankhurst, C.W. Rapela, C.M. Fanning, and M. Márquez*\*\*\*235
- The origin of carbonaceous matter in pre-3.0 Ga greenstone terrains: A review and new evidence from the 3.42 Ga Buck Reef Chert—*Michael M. Tice and Donald R. Lowe*\*\*\*259

ELEMENTS

Vol. 2, No. 4, 2006

- Early earth—*John W. Valley*\*\*\*201
- The origin of the earth – what’s new?—*Alex N. Halliday*\*\*\*205
- Impact processes on the early earth—*Christian Koeberl*\*\*\*211
- Earth’s earliest atmosphere—*Kevin J. Zahnle*\*\*\*217
- Antiquity of the oceans and continents—*Allen P. Nutman*\*\*\*223
- The first billion years: When did life emerge?—*J. William Schopf*\*\*\*229

EUROPEAN JOURNAL OF MINERALOGY

Vol. 18, No. 3, 2006

- Quantitative analysis of fluid inclusions by synchrotron X-ray fluorescence: calibration of Cu and Zn in synthetic quartz inclusions—*Hiroki Nagaseki, Ken-Ichiro Hayashi, and Atsuo Iida*\*\*\*309
- Micro-Raman spectroscopy for a quick and reliable identification of serpentine minerals from ultramafics—*Chiara Groppo, Caterina Rinaudo, Simona Cairo, Daniela Gastaldi, and Roberto Compagnoni*\*\*\*319
- A semi-quantitative technique for determination of CO<sub>2</sub> in cordierite by Raman spectroscopy in thin sections—*Reinhard Kaindl, Peter Tropper, and Irene Deibl*\*\*\*331
- Mineralogy and geochemistry of micas from the Pinilla de Famoselle pegmatite (Zamora, Spain)—*Encarnación Roda-Robles, Alfonso Pesquera, Pedro P. Gil-Crespo, José Torres-Ruiz, and Philippe De Parseval*\*\*\*369

- Ti-rich phlogopite from Mt. Vulture (Potenza, Italy) investigated by a multianalytical approach: substitutional mechanisms and orientation of the OH dipoles—*Fernando Scordari, Gennaro Ventruti, Anna Sabato, Fabio Bellatreccia, Giancarlo Della Ventura, and Giuseppe Pedrazzi*\*\*\*379
- Copper-zinc hydroxychlorides: origin and occurrence as paint pigments in Arcos de la Frontera's Chapel of Mercy (Spain)—*Francisco Javier Alejandre and Gonzalo Márquez*\*\*\*403

GEOCHEMICAL JOURNAL

Vol. 40, No. 4, 2006

- Ultramafic xenoliths from the Veneto Volcanic Province (Italy): Petrological and geochemical evidence for multiple metasomatism of the SE Alps mantle lithosphere—*Daniela Gasperini, Delphine Bosch, Roberto Braga, Mirella Bondi, Patrizia Macera, and Lauro Morten*\*\*\*377

GEOCHEMISTRY, GEOPHYSICS, GEOSYSTEMS, G<sup>3</sup>

Vol. 7, 2006

- A decade of exploring a submarine intraplate volcano: Hydrothermal manganese and iron at Lō'ihi volcano, Hawai'i—*Alexander Malahoff, Irina Ya. Kolotyorkina, Brian P. Midson, and Gary J. Massoth*\*\*\*01 June
- Paleointensity applications to timing and extent of eruptive activity, 9°–10°N East Pacific Rise—*Julie Bowles, Jeffrey S. Gee, Dennis V. Kent, Michael R. Perfit, S. Adam Soule, and Daniel J. Fornari*\*\*\*08 June
- Three-dimensional visualization of a near-vertical slab tear beneath the southern Mariana arc—*Meghan S. Miller, Alexei Gorbatov, and Brian L.N. Kennett*\*\*\*14 June
- Sr and <sup>87</sup>Sr/<sup>86</sup>Sr in rivers draining the Deccan Traps (India): Implications to weathering, Sr fluxes, and the marine <sup>87</sup>Sr/<sup>86</sup>Sr record around K/T—*Anirban Das, S. Krishnaswami, and Anil Kumar*\*\*\*15 June
- Detachment shear zone of the Atlantis Massif core complex, Mid-Atlantic Ridge, 30°N—*J.A. Karson, G.L. Früh-Green, D.S. Kelley, E.A. Williams, D.R. Yoerger, and M. Jakuba*\*\*\*21 June
- Tectonic discrimination diagrams revisited—*Pieter Vermeesch*\*\*\*27 June
- Geochemical controls on hydrothermal fluids from the Kairei and Edmond Vent Fields, 23°–25°S, Central Indian Ridge—*R.M. Gallant and K.L. Von Damm*\*\*\*27 June
- Simulation of CO<sub>2</sub> concentrations, temperature, and stratification in Lake Nyos for different degassing scenarios—*Martin Schmid, Michel Halbwachs, and Alfred Wüest*\*\*\*28 June

GEOCHEMISTRY INTERNATIONAL

Vol. 44, No. 7, 2006

- Composition, mineral assemblages, and genesis of serendibite-bearing magnesian skarns—*S.M. Aleksandrov and M.A. Troneva*\*\*\*665
- Geochemistry of hydrothermal solutions from 9°50 N at the East Pacific Rise (EPR) within twelve years after the eruption of a submarine volcano—*A.Yu. Lein, Ya.A. Bogdanov, D.V. Grichuk, I.I. Rusanov, and A.M. Sagalevich*\*\*\*690
- On the problem of the formation and geochemical role of bituminous matter in pegmatites of the Khibiny and Lovozero alkaline massifs, Kola Peninsula, Russia—*N.V. Chukanov, I.V. Pekov, S.V. Sokolov, A.N. Nekrasov, V.N. Ermolaeva, and I.S. Naumova*\*\*\*715

## GEOCHIMICA ET COSMOCHIMICA ACTA

Vol. 70, No. 9, 2006

- Speciation and solubility of heavy metals in contaminated soil using X-ray microfluorescence, EXAFS spectroscopy, chemical extraction, and thermodynamic modeling—*Tatiana A. Kirpichtchikova, Alain Manceau, Lorenzo Spadini, Frédéric Panfili, Matthew A. Marcus, and Thierry Jacquet*\*\*\*2163
- The effects of organic acids on the dissolution of silicate minerals: A case study of oxalate catalysis of kaolinite dissolution—*Jordi Cama and Jiwchar Ganor*\*\*\*2191
- The oxidation states of copper and iron in mineral sulfides, and the oxides formed on initial exposure of chalcopyrite and bornite to air—*Siew Wei Goh, Alan N. Buckley, Robert N. Lamb, Richard A. Rosenberg, and Damian Moran*\*\*\*2210
- Mass-dependent fractionation of quadruple stable sulfur isotope system as a new tracer of sulfur biogeochemical cycles—*Shuhei Ono, Boswell Wing, David Johnston, James Farquhar, and Douglas Rumble*\*\*\*2238
- Antimonous acid protonation/deprotonation equilibria in hydrothermal solutions to 300°C—*V.P. Zakaznova-Herzog and T.M. Seward*\*\*\*2298
- Pb diffusion in monazite: An experimental study of  $\text{Pb}^{2+} + \text{Th}^{4+} \leftrightarrow 2\text{Nd}^{3+}$  interdiffusion—*Emmanuel Gardés, Olivier Jaoul, Jean-Marc Montel, Anne-Magali Seydoux-Guillaume, and Richard Wirth*\*\*\*2325

Vol. 70, No. 10, 2006

- Prediction of the speciation of alkaline earths adsorbed on mineral surfaces in salt solutions—*Dimitri A. Sverjensky*\*\*\*2427
- Speciation of volatile arsenic at geothermal features in Yellowstone National Park—*Britta Planer-Friedrich, Corinne Lehr, Jörg Matschullat, Broder J. Merkel, Darrell Kirk Nordstrom, and Mark W. Sandstrom*\*\*\*2480
- Part I. Decrepitation and degassing behaviour of quartz up to 1560°C: Analysis of noble gases and halogens in complex fluid inclusion assemblages—*M.A. Kendrick, D. Phillips, and J.McL. Miller*\*\*\*2540
- Part II. Evaluation of  $^{40}\text{Ar}$ – $^{39}\text{Ar}$  quartz ages: Implications for fluid inclusion retentivity and determination of initial  $^{40}\text{Ar}/^{36}\text{Ar}$  values in Proterozoic samples—*M.A. Kendrick, J.McL. Miller, and D. Phillips*\*\*\*2562
- Experimental study of platinum solubility in silicate melt to 14 GPa and 2273 K: Implications for accretion and core formation in Earth—*Werner Ertel, Michael J. Walter, Michael J. Drake, and Paul J. Sylvester*\*\*\*2591

Vol. 70, No. 11, 2006

- Metal ion binding to iron oxides—*M. Ponthieu, F. Juillot, T. Hiemstra, W.H. van Riemsdijk, and M.F. Benedetti*\*\*\*2679
- Contributions from glacially derived sediment to the global iron (oxyhydr)oxide cycle: Implications for iron delivery to the oceans—*Rob Raiswell, Martyn Tranter, Liane G. Benning, Martin Siegert, Ros De'ath, Philippe Huybrechts, and Tony Payne*\*\*\*2765
- Oxygen isotope analyses of fine silica grains using laser-extraction technique: Comparison with oxygen isotope data obtained from ion microprobe analyses and application to quartzite and silcrete cement investigation—*Anne Alexandre, Isabelle Basile-Doelsch, Corinne Sonzogni, Florence Sylvestre, Claude Parron, Jean-Dominique Meunier, and Fabrice Colin*\*\*\*2827
- Organic matter mineralization in sediment of a coastal freshwater lake and response to salinization—*Richard W. Canavan, Caroline P. Slomp, Parisa Jourabchi, Philippe Van Cappellen, Annet M. Laverman, and Gerard A. van den Berg*\*\*\*2836
- Geochemical evolution of a shallow magma plumbing system during the last 500 years, Miyakejima volcano, Japan: Constraints from  $^{238}\text{U}$ – $^{230}\text{Th}$ – $^{226}\text{Ra}$  systematics—*Tetsuya Yokoyama, Takeshi Kuritani, Katsura Kobayashi, and Eizo Nakamura*\*\*\*2885

## GEOFLUIDS

Vol. 6, No. 3, 2006

- Sampling and analysis of geothermal fluids—*S. Arnórsson, J.Ö. Bjarnason, N. Giroud, I. Gunnarsson, and A. Stefánsson*\*\*\*203
- Real-time quadrupole mass spectrometer analysis of gas in borehole fluid samples acquired using the U-tube sampling methodology—*B.M. Freifeld and R.C. Trautz*\*\*\*217
- Groundwater discharges in the Baltic Sea: survey and quantification using a schlieren technique application—*V. Karpen, L. Thomsen, and Erwin Suess*\*\*\*241

On sampling the upper crustal reservoir of the NE Pacific Ocean—*H.P. Johnson, J.A. Baross, and T.A. Bjorklund*\*\*\*251

GEOLOGICAL MAGAZINE

Vol. 143, No. 4, 2006

Geochemical characteristics of the Cretaceous ophiolitic rocks of Ikaria island, Greece—*Georgia Pe-Piper and Adonis Photiades*\*\*\*417

Geology and timing of dextral strike-slip shear zones in Danmarkshavn, North-East Greenland Caledonides—*C. Sartini-Rideout, J.A. Gilotti, and W.C. McClelland*\*\*\*431

Petrogenesis of Late Jurassic Qianlishan granites and mafic dykes, Southeast China: implications for a back-arc extension setting—*Yao-Hui Jiang, Shao-Yong Jiang, Kui-Dong Zhao, and Hong-Fei Ling*\*\*\*457

Variscan veins: record of fluid circulation and Variscan tectonothermal events in Upper Palaeozoic limestones of the Moravian Karst, Czech Republic—*M. Slobodnik, Ph. Muchez, J. Král, and E. Keppens*\*\*\*491

GEOLOGY

Vol. 34, No. 7, 2006

Active tectonics of the western Mediterranean: Geodetic evidence for rollback of a delaminated subcontinental lithospheric slab beneath the Rif Mountains, Morocco—*Abdelali Fadil, Philippe Vernant, Simon McClusky, Robert Reilinger, Francisco Gomez, Driss Ben Sari, Taoufik Mourabit, Kurt Feigl, and Muawia Barazangi*\*\*\*529

Constraining rates of thrusting and erosion: Insights from kinematic thermal modeling—*Audrey D. Huerta and David W. Rodgers*\*\*\*541

Submarine pyroclastic deposits formed at the Soufrière Hills volcano, Montserrat (1995–2003): What happens when pyroclastic flows enter the ocean?—*J. Trofimovs, L. Amy, G. Boudon, C. Deplus, E. Doyle, N. Fournier, M.B. Hart, J.C. Komorowski, A. Le Friant, E.J. Lock, C. Pudsey, G. Ryan, R.S.J. Sparks, and P.J. Talling*\*\*\*549

Interrelations between intermediate-depth earthquakes and fluid flow within subducting oceanic plates: Constraints from eclogite facies pseudotachylytes—*Timm John and Volker Schenk*\*\*\*557

Magnetotelluric evidence for a deep-crustal mineralizing system beneath the Olympic Dam iron oxide copper-gold deposit, southern Australia—*Graham S. Heinson, Nicholas G. Doreen, and Rob M. Gill*\*\*\*573

Modes of seafloor generation at a melt-poor ultraslow-spreading ridge—*Mathilde Cannat, Daniel Sauter, Véronique Mendel, Etienne Ruellan, Kyoko Okino, Javier Escartin, Violaine Combier, and Mohamad Baala*\*\*\*605

GEOPHYSICAL JOURNAL INTERNATIONAL

Vol. 166, No. 1, 2006

Hydraulic stimulation of geothermal reservoirs: fluid flow, electric potential and microseismicity relationships—*Mathieu Darnet, Guy Marquis, and Pascal Sailhac*\*\*\*438

Geothermal evidence for fluid flow through the gas hydrate stability field off Central Chile—transient flow related to large subduction zone earthquakes?—*Ingo Grevemeyer, Norbert Kaul, and Juan L. Diaz-Naveas*\*\*\*461

Crust and upper mantle structure of a continental backarc: central North Island, New Zealand—*W.R. Stratford and T.A. Stern*\*\*\*469

GEOPHYSICAL RESEARCH LETTERS

Vol. 33, No. 10-12, 2006

Excess pore pressures within subducting sediments: Does the proportion of accreted versus subducted sediments matter?—*E. Sreaton*\*\*\*19 May

Modern-age buildup of CO<sub>2</sub> and its effects on seawater acidity and salinity—*Hugo A. Loaiciga*\*\*\*26 May

- Detection of an unusually large hydrothermal event plume above the slow-spreading Carlsberg Ridge: NW Indian Ocean—*Bramley J. Murton, Edward T. Baker, Carla M. Sands, and Christopher R. German*\*\*\*31 May
- Global gridded data set of the oxygen isotopic composition in seawater—*Allegra N. LeGrande and Gavin A. Schmidt*\*\*\*21 June
- Mauna Loa volcano is not a methane source: Implications for Mars—*Steven Ryan, Edward J. Dlugokencky, Pieter P. Tans, and Michael E. Trudeau*\*\*\*22 June
- Small slow-strain steps and their forerunners observed in gold mine in South Africa—*Makoto Naoi, Hiroshi Ogasawara, Junichi Takeuchi, Akihito Yamamoto, Naoyuki Shimoda, Ken Morishita, Hiroshi Ishii, Shigeru Nakao, Gerrie van Aswegen, Aleksander J. Mendecki, Patrick Lenegan, Rookshana Ebrahim-Trollope, and Yoshihisa Iio*\*\*\*23 June

GEOSPHERE

Vol. 2, No. 4, 2006

- GIS analyses and favorability mapping of optimized satellite data in northern Chile to improve exploration for copper mineral deposits—*Norbert Ott, Tanja Kollersberger, and Andrés Tassara*\*\*\*236

GEOTECTONICS

Vol. 40, No. 4, 2006

- Ophiolites of the Kamchatsky mys peninsula, eastern Kamchatka: Structure, composition, and geodynamic setting—*M. Yu. Khotin and M. N. Shapiro*\*\*\*297

GEO THERMICS

Vol. 35, No. 3, 2006

- Occurrence and significance of anomalous chloride waters at the Orakei Korako geothermal field, Taupo Volcanic Zone, New Zealand—*Patrick R. L. Browne and Kerry A. Rodgers*\*\*\*211
- Comparison of carbon dioxide emissions with fluid upflow, chemistry, and geologic structures at the Rotorua geothermal system, New Zealand—*Cynthia Werner and Carlo Cardellini*\*\*\*221
- Prediction of mineral scale formation in geothermal and oilfield operations using the Extended UNIQUAC model: Part II. Carbonate-scaling minerals—*Ada Villafañila García, Kaj Thomsen, and Erling H. Stenby*\*\*\*239
- A new and fast method to determine mixing and conductive cooling of thermal waters in carbonate-evaporite environments—*Stéphanie Levet, Gilles Berger, Marguerite Munoz, and Jean-Paul Toutain*\*\*\*285
- Simulation of heat extraction from crystalline rocks: The influence of coupled processes on differential reservoir cooling—*Christopher I. McDermott, Andreas R. L. Randriamanjato, Helmut Tenzer, and Olaf Kolditz*\*\*\*321

GSA TODAY

Vol. 16, No. 8, 2006

- Dates and rates of arid region geomorphic processes—*Kyle K. Nichols, Paul R. Bierman, W. Ross Foniri, Alan R. Gillespie, Marc Caffee, and Robert Finkel*\*\*\*4

INTERNATIONAL GEOLOGY REVIEW

Vol. 48, No. 5, 2006

- An overview of younger Kathmandu Lake, Nepal, during the Late Quaternary, with special reference to ferruginous structures in carbonaceous sediments—*Harald G. Dill*\*\*\*383
- Sulfur isotope characteristics of mesothermal gold deposits: Results of an investigation of the Rio Itapicuru region, Bahia, Brazil—*M.C. Geraldés, G.C. de Abreu, P.R. Pires, E.F. Mello, and S.S. Iyer*\*\*\*410
- Platinum-group-element systematics of peridotites from ophiolite complexes of northwest Anatolia, Turkey: Implications for mantle metasomatism by melt percolation in a supra-subduction zone environment—*Ercan Aldanmaz and Necla Koprubasi*\*\*\*420
- Geological and geochemical characteristics of granitoids in the eastern Tauride belt, southeastern Turkey—*Özcan Dumanlılar, Dogan Aydal, Halide Dumanlılar, and Pinar Alici Sen*\*\*\*443
- Heavy metal distribution in rocks, sediments, mine tailings, leaching experiments, and groundwater from the Mineral de Pozos Historical Mining Site, north-central Mexico—*A. Carrillo-Chávez, E. González-Partida, O. Morton-Bermea, E. Hernandez, Giles Levresse, Pedro Soto, Jordi Tritlla, and Antoni Camprubi*\*\*\*466

Vol. 48, No. 6, 2006

- Simple kinematics of subduction zones—*C. Doglioni, E. Carminati, and M. Cuffaro*\*\*\*479
- Metamorphism and chromite in serpentized and carbonate-silica-altered peridotites of the Paleoproterozoic outokumpu-jormua ophiolite belt, eastern Finland—*Jaakko Sääntti, Asko Kontinen, Peter Sorjonen-Ward, Bo Johanson, and Lassi Pakkanen*\*\*\*494
- <sup>40</sup>Ar/<sup>39</sup>Ar and Rb/Sr geochronology of the Goiás-Crixás dike swarm, central Brazil: Constraints on the Neoproterozoic–Paleoproterozoic tectonic boundary in South America, and Nd–Sr signature of the subcontinental mantle—*P.C. Corrêa da Costa, V.A.V. Girardi, and W. Teixeira*\*\*\*547
- Alteration/mineralization and controls of chalcopyrite dissolution/deposition in the Raigan porphyry system, Bam-Kerman, Iran—*Ardeshir Hezarkhani*\*\*\*561

JOURNAL OF AFRICAN EARTH SCIENCES

Vol. 42, No. 1-5, 2005

- Special Issue on Recent Advances in the Geology and Mineralization of the Central African Copperbelt—*Laurence Robb, Jacques Cailteux, and Sally Sutton*\*\*\*vii
- Geochronology and nature of the Palaeoproterozoic basement in the Central African Copperbelt (Zambia and the Democratic Republic of Congo), with regional implications—*C. Rainaud, S. Master, R.A. Armstrong, and L.J. Robb*\*\*\*1
- Geochronology of the Nchanga Granite, and constraints on the maximum age of the Katanga Supergroup, Zambian Copperbelt—*R.A. Armstrong, S. Master, and L.J. Robb*\*\*\*32
- Provenance ages of the Neoproterozoic Katanga Supergroup (Central African Copperbelt), with implications for basin evolution—*S. Master, C. Rainaud, R.A. Armstrong, D. Phillips, and L.J. Robb*\*\*\*41
- Sedimentary genesis and lithostratigraphy of Neoproterozoic megabreccia from Mufulira, Copperbelt of Zambia—*Marek Wendorff*\*\*\*61
- Lithostratigraphic position and petrographic characteristics of R.A.T. (“Roches Argilo-Talqueuses”) Subgroup, Neoproterozoic Katangan Belt (Congo)—*J.L.H. Cailteux, A.B.H. Kampunzu, and M.J. Batumike*\*\*\*82
- A fluid mixing model for copper mineralization at Konkola North, Zambian Copperbelt—*S.J. Sutton and J.B. Maynard*\*\*\*95
- Geochemical characterisation, provenance, source and depositional environment of ‘Roches Argilo-Talqueuses’ (RAT) and Mines Subgroups sedimentary rocks in the Neoproterozoic Katangan Belt (Congo): Lithostratigraphic implications—*A.B. Kampunzu, J.L.H. Cailteux, B. Moine, and H.N.B.T. Loris*\*\*\*119
- Genesis of sediment-hosted stratiform copper–cobalt deposits, central African Copperbelt—*J.L.H. Cailteux, A.B. Kampunzu, C. Lerouge, A.K. Kaputo, and J.P. Milesi*\*\*\*134
- The nature of early basinal fluids in the Zambian Copperbelt: A case study from the Chambishi deposit—*L.N. Greyling, L.J. Robb, S. Master, M.C. Boiron, and Y. Yao*\*\*\*159
- Sulphur isotope constraints on formation conditions of the Luiswishi ore deposit, Democratic Republic of Congo (DRC)—*C. Lerouge, J. Cailteux, A.B. Kampunzu, J.P. Milesi, and C. Fléhoc*\*\*\*173

- Monazite U–Pb dating and  $^{40}\text{Ar}$ – $^{39}\text{Ar}$  thermochronology of metamorphic events in the Central African Copperbelt during the Pan-African Lufilian Orogeny—*C. Rainaud, S. Master, R.A. Armstrong, D. Phillips, and L.J. Robb*\*\*\*183
- Neoproterozoic diamictites from the Itombwe Synclinorium, Kivu Province, Democratic Republic of Congo: Palaeoclimatic significance and regional correlations—*K.M.A. Walemba and S. Master*\*\*\*200

Vol. 43, No. 1-3, 2005

- Special Issue on Phanerozoic Evolution of Africa—*Octavian Catuneanu, René Guiraud, Pat Eriksson, Bob Thomas, Russell Shone, and Roger Key*\*\*\*vii
- The geodynamic setting of the Phanerozoic basins of Africa—*A.J. Bumby and R. Guiraud*\*\*\*1
- Phanerozoic geological evolution of Northern and Central Africa: An overview—*R. Guiraud, W. Bosworth, J. Thierry, and A. Delplanque*\*\*\*83
- The Moroccan Hercynides—*Christian Hoepffner, Abderahmane Soulaïmani, and Alain Piqué*\*\*\*144
- Paleozoic basins in West Africa and the Mauritanide thrust belt—*Michel Villeneuve*\*\*\*166
- The Cape Basin, South Africa: A review—*R.W. Shone and P.W.K. Booth*\*\*\*196
- The Karoo basins of south-central Africa—*O. Catuneanu, H. Wopfner, P.G. Eriksson, B. Cairncross, B.S. Rubidge, R.M.H. Smith, and P.J. Hancox*\*\*\*211
- Central Atlantic margin basins of North West Africa: Geology and hydrocarbon potential (Morocco to Guinea)—*Ian Davison*\*\*\*254
- Phanerozoic geological evolution of the Equatorial Atlantic domain—*Christophe Basile, Jean Mascle, and René Guiraud*\*\*\*275
- South Atlantic continental margins of Africa: A comparison of the tectonic vs climate interplay on the evolution of equatorial West Africa and SW Africa margins—*Michel Séranne and Zahie Anka*\*\*\*283
- Mesozoic–Cenozoic history of the Congo Basin—*Pierre Giresse*\*\*\*301
- The Mesozoic–Cenozoic interior sag basins of Central Africa: The Late-Cretaceous–Cenozoic Kalahari and Okavango basins—*I.G. Haddon and T.S. McCarthy*\*\*\*316
- The Red Sea and Gulf of Aden Basins—*William Bosworth, Philippe Huchon, and Ken McClay*\*\*\*334
- The East African rift system—*Jean Chorowicz*\*\*\*379

Vol. 43, No. 4, 2005

- Structural evolution and tectonic context of the Mfongosi Group, Natal thrust front, Tugela terrane, South Africa—*I.J. Basson, M.K. Watkeys, and D. Phillips*\*\*\*415
- Tectonic, climatic and hydrothermal control on sedimentation and water chemistry of northern Lake Malawi (Nyasa), Tanzania—*Philippe Branchu, Laurent Bergonzini, Damien Delvaux, Marc De Batist, Vladimir Golubev, Marc Benedetti, and Jean Klerck*\*\*\*433
- Reworking of Archaean and Palaeoproterozoic crust in the Mozambique belt of central Tanzania as documented by SHRIMP zircon geochronology—*Holger Sommer, Alfred Kröner, Christoph Hauenberger, and Sospeter Muhongo*\*\*\*447

Vol. 43, No. 5, 2005

- Petrological and mineralogical studies of Pan-African serpentinites at Bir Al-Edeid area, central Eastern Desert, Egypt—*M.K. Azer and A.E.S. Khalil*\*\*\*525
- New U–Pb SHRIMP zircon age for the Schurwedraai alkali granite: Implications for pre-impact development of the Vredefort Dome and extent of Bushveld magmatism, South Africa—*I.T. Graham, S.A. De Waal, and R.A. Armstrong*\*\*\*537

## JOURNAL OF ASIAN EARTH SCIENCES

Vol. 27, No. 1, 2006

- PTt path in metamorphic rocks of the Khoi region (northwest Iran) and their tectonic significance for Cretaceous–Tertiary continental collision—*H. Azizi, H. Moinevaziri, M. Mohajjel, and A. Yagobpoor*\*\*\*1
- Geochemistry of the Neo-Archaean high-Mg basalts, boninites and adakites from the Kushtagi–Hungund greenstone belt of the Eastern Dharwar Craton (EDC); implications for the tectonic setting—*S.M. Naqvi, R.M.K. Khan, C. Manikyamba, M. Ram Mohan, and Tarun C. Khanna*\*\*\*25

INTERESTING PAPERS IN OTHER JOURNALS VOL. 101:4

Geochemistry of the rare metal-bearing pegmatite No. 3 vein and related granites in the Keketuohai region, Altay Mountains, northwest China—*Y.-F. Zhu, Yishan Zeng, and Libing Gu*\*\*\*61

The Berit transect of the Tauride thrust belt, S Turkey: Late Cretaceous–Early Cenozoic accretionary/collisional processes related to closure of the Southern Neotethys—*Alastair H.F. Robertson, Timur Ustaömer, Osman Parlak, Ulvi Can Ünlügenç, Kemal Tasli, and Nurdan Inan*\*\*\*108

Vol. 27, No. 2, 2006

Geochemistry and volcanic features of Harrat El Fahda: A young volcanic field in northwest Arabia, Jordan—*Khalil M. Ibrahim and Ahmad Al-Malabeh*\*\*\*147

A satellite image approach to the study of lineaments, circular structures and regional geology in the Golcuk Crater district and its environs (Isparta, SW Turkey)—*O. Cengiz, E. Sener, and F. Yagmurlu*\*\*\*155

Mineralogy, petrography and whole-rock geochemistry of the Tertiary granitic intrusions in the Eastern Pontides, Turkey—*M. Arslan and Z. Aslan*\*\*\*177

Geomorphological studies along a transect from the taiga to the desert in Central Mongolia—evolution of landforms in the mid-latitude continental interior as a function of climate and vegetation—*H.G. Dill, S. Khishigsuren, Yo. Majigsuren, S. Myagmarsuren, and J. Bulgamaa*\*\*\*241

JOURNAL OF GEOCHEMICAL EXPLORATION

Vol. 90, No. 3, 2006

Metal mobility in alum shale from Öland, Sweden—*Helena Falk, Ulf Lavergren, and Bo Bergbäck*\*\*\*157

Constraints of stable isotopes on the origin of alunite from advanced argillic alteration systems in Bulgaria—*C. Lerouge, A. Kunov, C. Fléhoc, S. Georgieva, A. Hikov, J.L. Lescuyer, R. Petrunov, and N. Velinova*\*\*\*166

Geochemical mapping using a geomorphologic approach based on catchments—*Massimo Spadoni*\*\*\*183

JOURNAL OF GEOLOGY

Vol. 114, No. 5, 2006

Structural significance of L tectonites in the eastern-central Laramie Mountains, Wyoming—*Walter A. Sullivan*\*\*\*513

Three Proterozoic orogenic episodes and an intervening exhumation event in the Black Canyon of the Gunnison Region, Colorado—*Micah J. Jessup, James V. Jones III, Karl E. Karlstrom, Michael L. Williams, James N. Connelly, and Matthew T. Heizler*\*\*\*555

Cretaceous Na-alkaline magmatism from the Misiones province (Paraguay): Its relationships with the Paleocene Na-alkaline analog from Asunción and geodynamic significance—*Victor Fernandez Velázquez, Piero Comin-Chiaramonti, Aldo Cundari, Celso de Barros Gomes, and Claudio Riccomini*\*\*\*593

Sm-Nd isotopic evidence for late Mesoproterozoic metamorphic relics in the east African orogen from the Schirmacher Oasis, east Antarctica—*V. Ravikant*\*\*\*615

Stratigraphic and U-Pb SHRIMP detrital zircon evidence for a Neoproterozoic continental arc, Central China: rodinia implications—*Peter Druschke, Andrew D. Hanson, Quanren Yan, Zhongqi Wang, and Tao Wang*\*\*\*627

JOURNAL OF GEOPHYSICAL RESEARCH

Vol. 111, No. B7, 2006

Unrest at Campi Flegrei: A contribution to the magmatic versus hydrothermal debate from inverse and finite element modeling—*J. Gottsmann, A. Folch, and H. Rymer*\*\*\*28 July

JOURNAL OF PETROLOGY

Vol. 47, No. 6, 2006

- A detailed geochemical study of island arc crust: The Talkeetna Arc section, south-central Alaska—*Andrew R. Greene, Susan M. Debari, Peter B. Kelemen, Jurek Blusztajn, and Peter D. Clift*\*\*\*1051
- Correlations between U, Th content and metamorphic grade in the western Namaqualand belt, South Africa, with implications for radioactive heating of the crust—*Marco A.G. Andreoli, Rodger J. Hart, Lewis D. Ashwal, and Henk Coetzee*\*\*\*1095
- Trace element and Sr-Pb-Nd-Hf isotope evidence for ancient, fluid-dominated enrichment of the source of Aldan shield lamproites—*G.R. Davies, A.J. Stolz, I.L. Mahotkin, G.M. Nowell, and D.G. Pearson*\*\*\*1119
- Geochemical constraints on the origin of volcanic rocks from the Andean northern volcanic zone, Ecuador—*J.A. Bryant, G.M. Yagodinski, M.L. Hall, J.L. Lewicki, and D.G. Bailey*\*\*\*1147
- Post-collisional, potassic and ultrapotassic magmatism of the northern Tibetan plateau: Constraints on characteristics of the mantle source, geodynamic setting and uplift mechanisms—*Zhengfu Guo, Marjorie Wilson, Jiaqi Liu, and Qian Mao*\*\*\*1177
- Tertiary mafic lavas of Turkana, Kenya: Constraints on East African plume structure and the occurrence of high- $\mu$  volcanism in Africa—*Tanya Furman, Kelly M. Kaleta, Julia G. Bryce, and Barry B. Hanan*\*\*\*1221
- Interpretation of whole-rock geochemical data in igneous geochemistry: Introducing geochemical data toolkit (GCDkit)—*Vojtech Janoušek, C.M. Farrow, Vojtech Erban*\*\*\*1255

JOURNAL OF STRUCTURAL GEOLOGY

Vol. 28, No. 8, 2006

- Vein deflections and thickness variations of epithermal quartz veins as indicators of fracture coalescence—*G.S. Nortje, J.V. Rowland, K.B. Spörl, T.G. Blenkinsop, and S.D.C. Rabone*\*\*\*1396
- Progressive adjustments of ascent and emplacement controls during incremental construction of the 3.1 Ga Heerenveen batholith, South Africa—*R.W. Belcher and A.F.M. Kisters*\*\*\*1406
- Transpression and strain partitioning in the Caribbean Island-arc: Fabric development, kinematics and Ar–Ar ages of syntectonic emplacement of the Loma de Cabrera batholith, Dominican Republic—*J. Escuder Viruete, F. Contreras, G. Stein, P. Urien, M. Joubert, T. Ullrich, J. Mortensen, and A. Pérez-Estaín*\*\*\*1496

JOURNAL OF THE GEOLOGICAL SOCIETY

Vol. 163, No. 5, 2006

- A pre-Rodinian ophiolite involved in the Variscan suture of Galicia (Cabo Ortegal Complex, NW Spain)—*S. Sánchez Martínez, T.E. Jeffries, R. Arenas, J. Fernández-Suárez, and R. García-Sánchez*\*\*\*737
- Was Baltica right-way-up or upside-down in the Neoproterozoic?—*P.A. Cawood and S.A. Pisarevsky*\*\*\*753
- The morphology of intrusion-related vent structures and their implications for constraining the timing of intrusive events along the NE Atlantic Margin—*D.M. Hansen*\*\*\*789
- Stable isotope transfer in open and closed system across chemically contrasted boundaries: metacarbonate–granitoid contacts in the Quérigut magmatic complex (Eastern Pyrenees, France)—*C. Durand, P. Boulvais, D. Marquer, and M. Rossy*\*\*\*827
- U–Pb age constraints on Variscan Magmatism and Ni–Cu–PGE metallogeny in the Ossa–Morena Zone (SW Iberia)—*I. Romeo, R. Lunar, R. Capote, C. Quesada, G.R. Dunning, R. Piña, and L. Ortega*\*\*\*837
- Widespread arc-related melting in the mantle section of the northern Oman ophiolite as inferred from detrital chromian spinels—*S. Arai, K. Kadoshima, and T. Morishita*\*\*\*869
- Coalescence of lateral spreading magma ascending through dykes: a mechanism to form a granite canopy (El Hongo pluton, Sierras Pampeanas, Argentina)—*F. D'eramo, L. Pinotti, J.M. Tubía, A. Aranguren, N. Vegas, R. Tejero, and D. Gómez*\*\*\*881

JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH

Vol. 155, No. 1-2, 2006

Special Issue on Explosive Mafic Volcanism—*R. Cas*\*\*\*vi

Dynamical constraints on kimberlite volcanism—*R.S.J. Sparks, L. Baker, R.J. Brown, M. Field, J. Schumacher, G. Stripp, and A Walters*\*\*\*18

The role of fluidisation in the formation of volcanoclastic kimberlite: Grain size observations and experimental investigation—*A.L. Walters, J.C. Phillips, R.J. Brown, M. Field, T. Gernon, G. Stripp, and R.S.J. Sparks*\*\*\*119

LITHOS

Vol. 88, No. 1-4, 2006

Special Issue on Compositional Variation in Metamorphic Accessory Phases—*Joseph M. Pyle and Julia A. Baldwin*\*\*\*vii

Pb and rare earth element diffusion in xenotime—*D.J. Cherniak*\*\*\*1

Extreme P-, Bi-, Nb-, Sc-, U- and F-rich zircon from fractionated perphosphorous granites: The peraluminous Podlesí granite system, Czech Republic—*Karel Breiter, Hans-Jürgen Förster, and Radek Škoda*\*\*\*15

Composition and origin of intermediate solid solutions in the system thorite–xenotime–zircon–coffinite—*H.-J. Förster*\*\*\*35

Provenance implications of Th–U–Pb electron microprobe ages from detrital monazite in the Carboniferous Upper Silesia Coal Basin, Poland—*Monika Agnieszka Kusiak, Artur Kedzior, Mariusz Paszkowski, Kazuhiro Suzuki, Ignacio González-Álvarez, Boleslaw Wajsprych, and Marek Doktor*\*\*\*56

Formation of Al-rich titanite (CaTiSiO<sub>4</sub>O–CaAlSiO<sub>4</sub>OH) reaction rims on ilmenite in metamorphic rocks as a function of *f*H<sub>2</sub>O and *f*O<sub>2</sub>—*Daniel Harlov, Peter Tropper, Wolfgang Seifert, Timo Nijland, and Hans-Jürgen Förster*\*\*\*72

The fate of graphite in prograde metamorphism of pelites: An example from the Ballachulish aureole, Scotland—*David R.M. Pattison*\*\*\*85

Monazite behaviour and age significance in poly-metamorphic high-grade terrains: A case study from the western Musgrave Block, central Australia—*Nigel M. Kelly, Geoffrey L. Clarke, and Simon L. Harley*\*\*\*100

Contrasting response of monazite and zircon to a high-T thermal overprint—*Christopher R.M. McFarlane, James N. Connelly, and William D. Carlson*\*\*\*135

A SHRIMP U–Pb and LA-ICP-MS trace element study of the petrogenesis of garnet–cordierite–orthoamphibole gneisses from the Central Zone of the Limpopo Belt, South Africa—*Ian S. Buick, Jörg Hermann, Ian S. Williams, Roger L. Gibson, and Daniela Rubatto*\*\*\*150

Genesis of monazite and Y zoning in garnet from the Black Hills, South Dakota—*Panseoek Yang and David Pattison*\*\*\*233

MARINE GEOLOGY

Vol. 229, No. 3-4, 2006

The impact of oxic alteration on plume-derived transition metals in ridge flank sediments from the East Pacific Rise—*Rachel M. Dunk and Rachel A. Mills*\*\*\*133

Anthropogenic Pb component in hydrothermal ochres from Marsili Seamount (Tyrrhenian Sea)—*Vesselin M. Dekov, George D. Kamenov, Carlo Savelli, and Jens Stummeyer*\*\*\*199

Seafloor spreading magnetic anomalies south off Sri Lanka—*M. Desa, M.V. Ramana, and T. Ramprasad*\*\*\*227

Evidence for interaction of a spreading ridge with the outer California borderland—*Kathleen M. Marsaglia, Alicé S. Davis, Karl Rimkus, and David A. Clague*\*\*\*259

MARINE GEORESOURCES AND GEOTECHNOLOGY

Vol. 24, No.2, 2006

- Protracted environmental issues on a proposed titanium minerals development in Kenya's south coast—*J.O.Z. Abuodha and P.O. Hayombe*\*\*\*63  
Placer deposits of southern Tamil Nadu Coast, India—*N. Angusamy*\*\*\*77

MINERALIUM DEPOSITA

Vol. 41, No. 4, 2006

- Mineral zoning and gold occurrence in the Fortuna skarn mine, Nambija district, Ecuador—*Agnès Markowski, Jean Vallance, Massimo Chiaradia, and Lluís Fontboté*\*\*\*301  
Constraints from geochemistry and Sr–Nd isotopes for the origin of albitite deposits from Central Sardinia (Italy)—*Francesca Castorina, Umberto Masi, Giorgio Padalino, and Marcella Palomba*\*\*\*323  
The role of bitumen in strata-bound copper deposit formation in the Copiapo area, Northern Chile—*M. Eugenia Cisternas and Juan Hermosilla*\*\*\*339  
Pressure-oxidation autoclave as an analogue for acid–sulphate alteration in epithermal systems—*D. Craw*\*\*\*357  
Gold contents of sulfide minerals in granitoids from southwestern New Brunswick, Canada—*Xue-Ming Yang, David R. Lentz, and Paul J. Sylvester*\*\*\*369  
Internal vein texture and vein evolution of the epithermal Shila-Paula district, southern Peru—*Alain Chauvet, Laurent Bailly, Anne-Sylvie André, Patrick Monié, Daniel Cassard, Fernando Llosa Tajada, Juan Rosas Vargas, and Johann Tuduri*\*\*\*387

MINERALOGICAL MAGAZINE

Vol. 70, No. 3, 2006

- The extension of the western limb, Bushveld Complex (South Africa), at Cullinan Diamond Mine—*R.G. Cawthorn and N. McKenna*\*\*\*241  
Characteristics of halloysite associated with rectorite from Hubei, China—*H.-L. Hong and J.-X. Mi*\*\*\*257  
The missing sulphur in mattheddleite, sulphur analysis of sulphates, and paragenetic relations at Leadhills, Scotland—*E.J. Essene, C.E. Henderson, and A. Livingstone*\*\*\*265  
The origin of the hydrous scandium phosphate, kolbeckite, from the Hagendorf-Pleystein pegmatite province, Germany—*H.G. Dill, B. Weber, M. Füssl, and F. Melcher*\*\*\*281

NATURAL RESOURCES RESEARCH

Vol. 14, No. 4, 2005

- Special Issue on the Mathematical Geology for Resource Exploration—*Katsuaki Koike*\*\*\*283

NATURE

Vol. 441, 2006

- Seawater subduction controls the heavy noble gas composition of the mantle—*Greg Holland and Chris J. Ballentine*\*\*\*186  
Seismic detection of folded, subducted lithosphere at the core–mantle boundary—*Alexander R. Hutko, Thorne Lay, Edward J. Garnero, and Justin Revenaugh*\*\*\*333  
Long-term eruptive activity at a submarine arc volcano—*Robert W. Embley, William W. Chadwick, Jr, Edward T. Baker, David A. Butterfield, Joseph A. Resing, Cornel E.J. de Ronde, Verena Tunnicliffe, John E. Lupton, S. Kim Juniper, Kenneth H. Rubin,*

INTERESTING PAPERS IN OTHER JOURNALS VOL. 101:4

*Robert J. Stern, Geoffrey T. Lebon, Ko-ichi Nakamura, Susan G. Merle, James R. Hein, Douglas A. Wiens, and Yoshihiko Tamura\*\*\*494*

Stromatolite reef from the Early Archaean era of Australia—*Abigail C. Allwood, Malcolm R. Walter, Balz S. Kamber, Craig P. Marshall, and Ian W. Burch\*\*\*714*

Seismic waves increase permeability—*Jean E. Elkhoury, Emily E. Brodsky, and Duncan C. Agnew\*\*\*1135*

NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS

Vol. 49, No. 3, 2006

SHRIMP ion probe zircon geochronology and Sr and Nd isotope geochemistry for southern Longwood Range and Bluff Peninsula intrusive rocks of Southland, New Zealand—*R.C. Price, T.R. Ireland, R. Maas, and R.J. Arculus\*\*\*291*

The nature and age of Ohakuri Formation and Ohakuri Group rocks in surface exposures and geothermal drillhole sequences in the central Taupo Volcanic Zone, New Zealand—*D.M. Gravelly, C.J.N. Wilson, M.D. Rosenberg, and G.S. Leonard\*\*\*305*

ORE GEOLOGY REVIEWS

Vol. 29, No. 1, 2006

Geophysical and petrophysical study of an iron oxide copper gold deposit in northern Sweden—*Alessandro Sandrin and Sten-Åke Elming\*\*\*1*

Geology, mineralogy and geochemistry of the gold-bearing stibnite and cinnabar deposits in the Emirli and Haliköy areas (Ödemiş, Izmir, West Turkey)—*Migraç Akçay, H. Mustafa Özkan, Charlie J. Moon, and Baruch Spiro\*\*\*19*

Geology and geochemistry of the Bulong quartz-barite vein-type gold deposit in the Xinjiang Uygur Autonomous Region, China—*Fuquan Yang, Jingwen Mao, Yitian Wang, and Frank P. Bierlein\*\*\*52*

Geological characteristics and genesis of the Tuwu porphyry copper deposit, Hami, Xinjiang, Central Asia—*Chunming Han, Wenjiao Xiao, Guochun Zhao, Jingwen Mao, Jianmin Yang, Zhiliang Wang, Zhen Yan, and Qigui Mao\*\*\*77*

PHYSICS AND CHEMISTRY OF THE EARTH

Vol. 31, No. 10-14, 2006

Radionuclide migration at the Koongarra uranium deposit, Northern Australia – Lessons from the Alligator Rivers analogue project—*Timothy E. Payne and Peter L. Airey\*\*\*572*

Elemental distribution in zircon: Alteration and radiation-damage effects—*Kenji Horie, Hiroshi Hidaka, and François Gauthier-Lafaye\*\*\*587*

PHYSICS OF THE EARTH AND PLANETARY INTERIORS

Vol. 156, No. 3-4, 2006

Special Issue on ODP Contributions to Paleomagnetism—*William W. Sager, Gary D. Acton, Bradford M. Clement\*\*\*159*

PRECAMBRIAN RESEARCH

Vol. 147, No. 3-4, 2006

Special Issue on the Paleogeography of the Neoproterozoic-Cambrian Transition—*Phil J.A. McCausland, J. Brendan Murphy, and Conall MacNiocaill\*\*\*187*

Vol. 148, No. 1-2, 2006

- Polycyclic evolution of the Late Neoproterozoic basement in the Hermitage Flexure region (southwest Newfoundland Appalachians):  
New evidence from the Cinq-Cerf gneiss—*P. Valverde-Vaquero, G.R. Dunning, and S.J. O'Brien*\*\*\*1
- The genesis of Archaean chromitites from the Nuasahi and Sukinda massifs in the Singhbhum Craton, India—*Sisir K. Mondal, Edward M. Ripley, Chusi Li, and Robert Frei*\*\*\*45
- Crustal architecture of basin inversion during the Proterozoic Isan Orogeny, Eastern Mount Isa Inlier, Australia—*David Giles, Laurent Aillères, Dylan Jeffries, Peter Betts, and Gordon Lister*\*\*\*67
- Anorthosites in the Eastern Granulites of Tanzania—New SIMS zircon U–Pb age data, petrography and geochemistry—*V. Tenczer, C.A. Hauzenberger, H. Fritz, M.J. Whitehouse, A. Mogessie, E. Wallbrecher, S. Muhongo, and G. Hoinkes*\*\*\*85
- Sulfur and carbon isotope analyses of 2.7 Ga stromatolites, cherts and sandstones in the Jeerinah Formation, Western Australia—*Takeshi Kakegawa and Hideyuki Nanri*\*\*\*115
- The uranium mineralization potential of the Paleoproterozoic Sioux Basin and its relationship to other basins in the southern Lake Superior region—*Adrienne J. Hanly, T. Kurtis Kyser, Eric E. Hiatt, Jim Marlatt, and Sandra Foster*\*\*\*125

#### RESOURCE GEOLOGY

Vol. 56, No. 2, 2006

- Ore geology, fluid geochemistry and genesis of the Shanggong gold deposit, eastern Qinling Orogen, China—*Y.-J. Chen, F. Pirajno, J.-P. Qi, J. Li, and H.-H. Wang*\*\*\*99
- Genetic environment of the intrusion-related Yuryang Au-Te deposit in the Cheonan metallogenic province, Korea—*S. J. Pak, S.-G. Choi, C.-W. Oh, C.-H. Heo, S.-H. Choi, and S.-W. Kim*\*\*\*117
- Synthetic fluid inclusions in the systems NaCl-H<sub>2</sub>O and NaCl-CO<sub>2</sub>-H<sub>2</sub>O: Dissolution temperatures of halite—*H. Nagaseki and K.-I. Hayashi*\*\*\*133
- Polymetallic and Au-Ag mineralizations at the Mutnovskoe deposit in south Kamchatka, Russia—*R. Takahashi, H. Matsueda, V.M. Okrugin, and S. Ono*\*\*\*141
- Geology and mineralogy of the Baolun hydrothermal gold deposit in the Hainan Island, South China—*P. Wang, H. Kaneda, S. Ding, X. Zhang, X. Liao, F. Dong, Z. Li, X. Liu, and Y. Lai*\*\*\*157
- Hydrothermal alteration of Oman ophiolite extrusives in Ghuzayn area—*D.A. Shaikh, H. Matsueda, T. Mizuta, and S. Miyashita*\*\*\*167
- Hydrogen, oxygen and sulfur isotope studies of seafloor hydrothermal system at the Desmos Caldera, Manus back-arc basin, Papua New Guinea: An analogue of terrestrial acid hot crater-lake—*K.R. Gena, H. Chiba, T. Mizuta, and O. Matsubaya*\*\*\*183

#### ROCKY MOUNTAIN GEOLOGY

Vol. 41, Spring 2006

- Multiple phases of Tertiary extension and synextensional deposition of the Miocene–Pliocene Salt Lake Formation in an evolving supradetachment basin, Malad Range, southeast Idaho, U.S.A.—*Sean P. Long, Paul K. Link, Susanne U. Janecke, Michael E. Perkins, and C. Mark Fanning*\*\*\*1
- <sup>40</sup>Ar/<sup>39</sup>Ar dates from alkaline intrusions in the northern Crazy Mountains, Montana: Implications for the timing and duration of alkaline magmatism in the central Montana alkalic province—*Stephen S. Harlan*\*\*\*45

#### SCIENCE

Vol. 312, 2006

- Drilling to gabbro in intact ocean crust—*Douglas S. Wilson, Damon A.H. Teagle, Jeffrey C. Alt, et al.*\*\*\*1016
- Biomarker evidence for a major preservation pathway of sedimentary organic carbon—*Y. Hebbing, P. Schaeffer, A. Behrens, P. Adam, G. Schmitt, P. Schneckenburger, S.M. Bernasconi, and P. Albrecht*\*\*\*1627

Element partitioning: The role of melt structure and composition—*M.W. Schmidt, J.A.D. Connolly, D. Günther, and M. Bogaerts*\*\*\*1646

SEDIMENTARY GEOLOGY

Vol. 186, No. 1-2, 2006

Half graben filling processes in the early phase of continental rifting: The Miocene Namurungule formation of the Kenya rift—*Mototaka Saneyoshi, Katsuhiko Nakayama, Tetsuya Sakai, Yoshihiro Sawada, and Hidemi Ishida*\*\*\*111

SEDIMENTOLOGY

Vol. 53, No. 4, 2006

Resedimentation of cold pumiceous ignimbrite into water: facies transformations simulated in flume experiments—*S.R. Allen and A. Freundt*\*\*\*717

Dolomitization of the Middle Devonian Winnipegosis carbonates in south-central Saskatchewan, Canada—*Qilong Fu, Hairuo Qing, and Katherine M. Bergman*\*\*\*825

Aragonite cycles: diagenesis caught in the act—*Lars Reuning, John J.G. Reijmer, and Emanuela Mattioli*\*\*\*849

TECTONICS

Vol. 25, No. 3, 2006

Counterclockwise rotation of late Eocene–Oligocene fore-arc deposits in southern Peru and its significance for oroclinal bending in the central Andes—*Pierrick Roperch, Thierry Sempere, Orlando Macedo, César Arriagada, Michel Fornari, Claudio Tapia, Marcelo García, and Carlo Laj*\*\*\*01 June

Early Cretaceous extensional exhumation of the lower crust of a magmatic arc: Evidence from the Mount Irene Shear Zone, Fiordland, New Zealand—*J.M. Scott and A.F. Cooper*\*\*\*28 June

Paleomagnetism and tectonics of the southern Atacama Desert (25–28°S), northern Chile—*César Arriagada, Pierrick Roperch, Constantino Mpodozis, and Rodrigo Fernandez*\*\*\*01 July

Multistage exhumation and juxtaposition of lower continental crust in the western Canadian Shield: Linking high-resolution U-Pb and <sup>40</sup>Ar/<sup>39</sup>Ar thermochronometry with pressure-temperature-deformation paths—*R.M. Flowers, K.H. Mahan, S.A. Bowring, M.L. Williams, M.S. Pringle, and K.V. Hodges*\*\*\*07 July

Faulting and extension rate over the last 20,000 years in the offshore Whakatane Graben, New Zealand continental shelf—*Geoffroy Lamarche, Philip M. Barnes, and Jonathan M. Bull*\*\*\*12 July

Trans-Hudson Orogen of North America and Himalaya-Karakoram-Tibetan Orogen of Asia: Structural and thermal characteristics of the lower and upper plates—*Marc R. St-Onge, Michael P. Searle, and Natasha Wodicka*\*\*\*18 July

Tension gash-like back-arc basin opening and its control on subduction rollback inferred from Tertiary faulting in Sardinia—*Heiko Helbing, Wolfgang Frisch, Paul D. Bons, and Joachim Kuhlemann*\*\*\*25 July

Reply to comment by Brian Stevens on “Evidence and timing of crustal extension versus shortening in the early tectonothermal evolution of a Proterozoic continental rift sequence at Broken Hill, Australia”—*G.M. Gibson, M. Peljo, and T. Chamberlain*\*\*\*25 July

Comment on “Evidence and timing of crustal extension versus shortening in the early tectonothermal evolution of a Proterozoic continental rift sequence at Broken Hill, Australia” by G. M. Gibson, M. Peljo, and T. Chamberlain—*B.P.J. Stevens*\*\*\*25 July

Recent left-oblique slip faulting in the central eastern Trans-Mexican Volcanic Belt: Seismic hazard and geodynamic implications—*G. Norini, G. Groppelli, A.M.F. Lagmay, and L. Capra*\*\*\*29 July

TECTONOPHYSICS

Vol. 419, No. 1-4, 2006

Paleomagnetism of the Fort Knox Stock, Alaska, and rotation of the Yukon–Tanana terrane after 92.5 Ma—*D.T.A. Symons and P.J.A. McCausland*\*\*\*13

Vol. 420, No. 1-2, 2006

Special Issue on Seismic Probing of Continents and their Margins—*D.B. Snyder, D.W. Eaton, and C.A. Hurich*\*\*\*1

Imaging granitic plutons along the IBERSEIS profile—*I. Flecha, R. Carbonell, H. Zeyen, D. Martí, I. Palomeras, F. Simancas, and A. Pérez-Estaín*\*\*\*37

Seismic velocity model of the crust and uppermost mantle around the Mirnyi kimberlite field in Siberia—*V.D. Suvorov, E.A. Melnik, H. Thybo, E. Perchuc, and B.S. Parasotka*\*\*\*49

An integrated multi-scale 3D seismic model of the Archaean Yilgarn Craton, Australia—*B.R. Goleby, R.S. Blewett, T. Fomin, S. Fishwick, A.M. Reading, P.A. Henson, B.L.N. Kennett, D.C. Champion, L. Jones, B.J. Drummond, and M. Nicoll*\*\*\*75

Constraining models of the tectonic setting of the giant Olympic Dam iron oxide–copper–gold deposit, South Australia, using deep seismic reflection data—*Barry Drummond, Patrick Lyons, Bruce Goleby, and Leonie Jones*\*\*\*91

Coupled basin evolution and late-stage metamorphic core complex exhumation in the southern Basin and Range Province, southeastern Arizona—*Frank H. Wagner III (Trey) and Roy A. Johnson*\*\*\*141

Lithological interpretation of crustal composition in the Fennoscandian Shield with seismic velocity data—*M. Kuusisto, I.T. Kukkonen, P. Heikkinen, and L.J. Pesonen*\*\*\*283