

# THE CANADIAN MINERALOGIST

JOURNAL OF THE MINERALOGICAL ASSOCIATION OF CANADA

Volume 46

OCTOBER 2008

Part 5

Compositional variation of tourmaline-group minerals in the Borborema Pegmatite Province, northeastern Brazil	D.R. SOARES, H. BEURLEN, S.B. BARRETO, M.R.R. DA SILVA & A.C.M. FERREIRA	1097
Low-Al tourmalines of the schorl–dravite – povondraite series in redeposited tourmalinites from the western Carpathians, Slovakia	P. BAČÍK, P. UHER, M. SÝKORA & J. LIPKA	1117
The origin and zoning of hypogene and supergene Fe–Mn–Mg–Sc–U–REE phosphate mineralization from the newly discovered Trutzhofmühle aplite, Hagendorf Pegmatite Province, Germany	H.G. DILL, F. MELCHER, A. GERDES & B. WEBER	1131
The uraninite–pyrite association, a sensitive indicator of changes in paleofluid composition: an example from the Ohře (Eger) graben, Bohemian Massif, Czech Republic	J. ZACHARIAŠ, J. ADAMOVIČ & P. KONEČNÝ	1159
Contrasting ferric iron contents in conjugate Fe oxide and silicate melts from southern Slovakia determined using micro-XANES spectroscopy	V. HURAI, J. GÖTTLICHER, J. MAJZLAN & M. HURAIOVÁ	1173
Karelianite and vanadian phlogopite from the Merelani Hills gem zoisite deposits, Tanzania	G. GIULIANI, D. OHNENSTETTER, F. PALHOL, J. FENEYROL, E. BOUTROY, H. DE BOISSEZON & T. LHOMME	1183
Pseudosinalhalite, magnesiotaaffeite- $6N'3S$ and magnesiotaaffeite- $2N'2S$ as replacement products of spinel in dolomite marble from Stubenberg, Styria, Austria	F. BERHHARD, C. HAUZENBERGER, F. WALTER & R. KRISTIANSEN	1195
The high-temperature behavior of charoite	E. MATESANZ, J. GARCIA-GUINEA, E. CRESPO-FEO, P. LOPEZ-ARCE, F.J. VALLE-FUENTES & V. CORRECHER	1207
The manganese deposits of the Pampean Ranges, Argentina	P.R. LEAL, M.J. CORREA, S.J. AMETRANO, R.O. ETCHEVERRY & M.K. DE BRODTKORB	1215
Secondary phases from the alteration of a pile of zinc-smelter slag as indicators of environmental conditions: an example from Świętochłowice, Upper Silesia, Poland	H. BRIL, K. ZAINOUN, J. PUZIEWICZ, A. COURTIN-NOMADE, M. VANAECCKER & J.-C. BOLLINGER	1235
Color, mineralogy and composition of Upper Jurassic West Siberian glauconite: useful indicators of paleoenvironment	A. SÁNCHEZ-NAVAS, A. MARTÍN-ALGARRA, V. EDER, B.J. REDDY, F. NIETO & Y.U.N. ZANIN	1249
First-row transition elements, Y and Ga in kimberlite and lamproite: applications to diamond prospectivity and petrogenesis	T.C. BIRKETT	1269
Intragrain variation in $\delta^{13}\text{C}$ and nitrogen concentration associated with textural heterogeneities of carbonado	R. YOKOCHI, D. OHNENSTETTER & Y. SANO	1283
The system Os–Mo–S	M. DRÁBEK & M. RIEDER	1297
Compositional data for ikunolite from Rędziny, Rudawy Janowickie, Lower Silesia, Poland	J. PARAFINIUK, A. PIECZKA & B. GOŁĘBIOWSKA	1305
The oxidation state of copper and cobalt in carrollite, $\text{CuCo}_2\text{S}_4$	R.A.D. PATTRICK, V.S. COKER, C.I. PEARCE, N.D. TELLING & G. VAN DER LAAN	1317

From structure topology to chemical composition. IV. Titanium silicates: the orthorhombic polytype of nabalamprophyllite from the Lovozero massif, Kola Peninsula, Russia	E. SOKOLOVA & F.C. HAWTHORNE	1323
From structure topology to chemical composition. V. Titanium silicates: the crystal chemistry of nacarebiobsite-(Ce)	E. SOKOLOVA & F.C. HAWTHORNE	1333
Niveolanite, the first natural beryllium carbonate, a new mineral species from Mont Saint-Hilaire, Quebec, Canada	I.V. PEKOV, N.Z. ZUBKOVA, N.V. CHUKANOV, A.A. AGAKHANOV, D.I. BELAKOVSKIY, L. HORVÁTH, Y.A.E. FILINCHUK, E.R. GOBECHIYA, D.YU. PUSHCHAROVSKY & M.KH. RABADANOV	1343
A new crystal-chemical variation of the alunite-type structure in monoclinic $PbZn_{0.5}Fe_3(AsO_4)_2(OH)_6$	I.E. GREY, W.G. MUMME, P. BORDET & S.J. MILLS	1355
Lasalite, $Na_2Mg_2[V_{10}O_{28}] \bullet 20H_2O$ , a new decavanadate mineral species from the Vanadium Queen mine, La Sal District, Utah: description, atomic arrangement, and relationship to the pascoite group of minerals	J.M. HUGHES, W.S. WISE, M.E. GUNTER, J.P. MORTON & J. RAKOVAN	1365
Book Reviews		1373

**CAMIA6 46 (PT.5) 289-544**  
**ISSN 0008-4476 (printed version)**  
**ISSN 1499-1276 (electronic version)**