

European Journal of Mineralogy

N° 3/2008

Contents

Diamonds: A Special Issue in honour of Vladimir S. Sobolev

M. ARIMA, B. HARTE, N.V. SOBOLEV. – Preface: A Special Issue in honour of Vladimir S. Sobolev	303
N.V. SOBOLEV, A.M. LOGVINOVA, D.A. ZEDGENIZOV, N.P. POKHILENKO, D.V. KUZMIN, A.V. SOBOLEV.– Olivine inclusions in Siberian diamonds: high precision approach to minor elements.	305
A.V. LOGVINOVA, R. WIRTH, E.N. FEDOROVA, N.V. SOBOLEV. – Nanometre-sized mineral and fluid inclusions in cloudy Siberian diamonds: new insights on diamond formation	317
N.J. CAYZER, S. ODAKE, B. HARTE, H. KAGI. – Plastic deformation of lower-mantle diamonds by inclusion phase transformations	333
A.V. SPIVAK, Y.A. LITVIN, A.V. SHUSHKANOVA, V.Y. LITVIN, A.A. SHIRYAEV. – Diamond formation in carbonate-silicate-sulphide-carbon melts: Raman- and IR-microspectroscopy	341
A.V. SHUSHKANOVA, Y.A. LITVIN. – Diamond nucleation and growth in sulphide-carbon melts: an experimental study at 6.0–7.1 Gpa	349
M. ARIMA, Y. KOZAI. – Diamond dissolution rate in kimberlitic melts at 1300–1500 °C in the graphite stability field.	357
V.N. REUTSKY, B. HARTE, EIMF, Y.M. BORZDOV, Y.N. PALYANOV. – Monitoring diamond crystal growth, a combined experimental and SIMS study	365
Z.V. SPETSIUS, L.A. TAYLOR, J.W. VALLEY, M.T. DEANGELIS, M. SPICUZZA, A.S. IVANOV, V.I. BANZERUK. – Diamondiferous xenoliths from crustal subduction: garnet oxygen isotopes from the Nyurbinskaya pipe, Yakutia	375
H. KAGI, S. FUKURA. – Infrared and Raman spectroscopic observations on Central African carbonado and the implication to its origin	387
V.A. PECHNIKOV, F.V. KAMINSKY. – Diamond potential of metamorphic rocks in the Kokchetav massif, northern Kazakhstan	395