

Contents

COLTORTI, M. & GRÉGOIRE, M. Metasomatism in oceanic and continental lithospheric mantle: introduction	1
PICCARDO, G. B. The Jurassic Ligurian Tethys, a fossil ultraslow-spreading ocean: the mantle perspective	11
ISHIMARU, S. & ARAI, S. Calcic amphiboles in peridotite xenoliths from Avacha volcano, Kamchatka, and their implications for metasomatic conditions in the mantle wedge	35
NTAFLOS, T., TSCHEGG, C., COLTORTI, M., AKININ, V. V. & KOSLER, J. Asthenospheric signature in fertile spinel lherzolites from the Viliga Volcanic Field in NE Russia	57
SEGHEDI, I., NTAFLS, T. & PÉCSKAY, Z. The Gătaia Pleistocene lamproite: a new occurrence at the southeastern edge of the Pannonian Basin, Romania	83
OREJANA, D. & VILLASECA, C. Heterogeneous metasomatism in cumulate xenoliths from the Spanish Central System: implications for percolative fractional crystallization of lamprophyric melts	101
GALÁN, G., OLIVERAS, V. & PATERSON, B. A. Types of metasomatism in mantle xenoliths enclosed in Neogene–Quaternary alkaline mafic lavas from Catalonia (NE Spain)	121
DEMÉNY, A., CASILLAS, R., VENNEMANN, T. W., HEGNER, E., NAGY, G., AHJADO, A., DE LA NUEZ, J., SIPOS, P., PILET, S. & MILTON, J. Plume-related stable isotope compositions and fluid–rock interaction processes in the Basal Complex of La Palma, Canary Islands, Spain	155
TOURON, S., RENAC, C., O'REILLY, S. Y., COTTIN, J.-Y. & GRIFFIN, W. L. Characterization of the metasomatic agent in mantle xenoliths from Devès, Massif Central (France) using coupled <i>in situ</i> trace-element and O, Sr and Nd isotopic compositions	177
PERINELLI, C., SAPIENZA, G. T., ARMIENTI, P. & MORTEN, L. Metasomatism of the upper mantle beneath the Hyblean Plateau (Sicily): evidence from pyroxenes and glass in peridotite xenoliths	197
ISMAIL, M., DELPECH, G., COTTIN, J.-Y., GRÉGOIRE, M., MOINE, B. N. & BILAL, A. Petrological and geochemical constraints on the composition of the lithospheric mantle beneath the Syrian rift, northern part of the Arabian plate	223
BECCALUVA, L., BIANCHINI, G., ELLAM, R. M., MARZOLA, M., OUN, K. M., SIENA, F. & STUART, F. M. The role of HIMU metasomatic components in the North African lithospheric mantle: petrological evidence from the Gharyan lherzolite xenoliths, NW Libya	253
PERINELLI, C., ORLANDO, A., CONTE, A. M., ARMIENTI, P., BORRINI, D., FACCINI, B. & MISITI, V. Metasomatism induced by alkaline magma in the upper mantle of northern Victoria Land (Antarctica): an experimental approach	279
BONADIMAN, C., COLTORTI, M., DUGGEN, S., PALUDETTI, L., SIENA, F., THIRLWALL, M. F. & UPTON, B. G. J. Palaeozoic subduction-related and kimberlite or carbonatite metasomatism in the Scottish lithospheric mantle	303
ASHCHEPKOV, I. V., POKHILENKO, N. P., VLADYKIN, N. V., ROTMAN, A. Y., AFANASIEV, V. P., LOGVINOVA, A. M., KOSTROVITSKY, S. I., POKHILENKO, L. N., KARPENKO, M. A., KULIGIN, S. S., MALYGINA, E. V., STEGNITSKY, Y. B., ALYMOVA, N. A. & KHMELNIKOVA, O. S. Reconstruction of mantle sections beneath Yakutian kimberlite pipes using monomineral thermobarometry	335
Index	353