

Contents

COLTORTI, M., DOWNES, H., GRÉGOIRE, M. & O'REILLY, S. Y. Petrological evolution of the European lithospheric mantle: introduction	1
From subcontinental to suboceanic lithospheric mantle	
<i>Ultramafic complexes</i>	
PICCARDO, G. B. & GUARNIERI, L. The Monte Maggiore peridotite (Corsica, France): a case study of mantle evolution in the Ligurian Tethys	7
PICCARDO, G. B. The Lanzo peridotite massif, Italian Western Alps: Jurassic rifting of the Ligurian Tethys	47
<i>Mantle xenoliths</i>	
GRÉGOIRE, M., CHEVET, J. & MAALOE, S. Composite xenoliths from Spitsbergen: evidence of the circulation of MORB-related melts within the upper mantle	71
Eclogites and pyroxenites in the SCLM	
<i>Ultramafic complexes</i>	
MONTANINI, A., TRIBUZIO, R. & BERSANI, D. Insights into the origin of mantle graphite and sulphides in garnet pyroxenites from the External Liguride peridotites (Northern Apennine, Italy)	87
<i>Mantle xenoliths</i>	
BIANCHINI, G., BECCALUVA, L., BONADIMAN, C., NOWELL, G. M., PEARSON, D. G., SIENA, F. & WILSON, M. Mantle metasomatism by melts of HIMU piclogite components: new insights from Fe-lherzolite xenoliths (Calatrava Volcanic District, central Spain)	107
VILLASECA, C., ANCOCHEA, E., OREJANA, D. & JEFFRIES, T. E. Composition and evolution of the lithospheric mantle in central Spain: inferences from peridotite xenoliths from the Cenozoic Calatrava volcanic field	125
Subduction v. intraplate metasomatism fingerprints	
<i>Mantle xenoliths</i>	
YOSHIKAWA, M., KAWAMOTO, T., SHIBATA, T. & YAMAMOTO, J. Geochemical and Sr–Nd isotopic characteristics and pressure–temperature estimates of mantle xenoliths from the French Massif Central: evidence for melting and multiple metasomatism by silicate-rich carbonatite and asthenospheric melts	153
DOBOSI, G., JENNER, G. A., EMBEY-ISZTIN, A. & DOWNES, H. Cryptic metasomatism in clino- and orthopyroxene in the upper mantle beneath the Pannonian region	177
Mantle textures revisited	
TABOR, F. A., TABOR, B. E. & DOWNES, H. Quantitative characterization of textures in mantle spinel peridotite xenoliths	195
Relationships between metasomatism and magmatism	
CVETKOVIĆ, V., DOWNES, H., HÖCK, V., PRELEVIĆ, D. & LAZAROV, M. Mafic alkaline metasomatism in the lithosphere underneath East Serbia: evidence from the study of xenoliths and the host alkali basalts	213
Index	241