

## Contents

SCHREIBER, B. C., BABEL, M. & LUGLI, S. Introduction and overview	1
<b>Tectonics, basin evolution and evaporites</b>	
KARNER, G. D. & GAMBÔA, L. A. P. Timing and origin of the South Atlantic pre-salt sag basins and their capping evaporites	15
BERTONI, C. & CARTWRIGHT, J. A. Clastic depositional systems at the base of the late Miocene evaporites of the Levant region, Eastern Mediterranean	37
AL-JUBOURY, A. I., AL-TARIF, A. M. & AL-EISA, M. Basin analysis of the Burdigalian and Early Langhian successions, Kirkuk Basin, Iraq	53
RAHIMPOUR-BONAB, H., SHARIATINIA, Z. & SIEMANN, M. G. Role of rifting in evaporite deposition in the Great Kavir Basin, central Iran	69
TURNER, P. & SHERIF, H. A giant Late Triassic–Early Jurassic evaporitic basin on the Saharan Platform, North Africa	87
<b>Working depositional models</b>	
BABEL, M. Depositional environments of a salina-type evaporite basin recorded in the Badenian gypsum facies in the northern Carpathian Foredeep	107
LOPEZ, P. L. & MANDADO, J. M. Experimental evaporation of superficial brines from continental playa–lake systems located in Central Ebro Basin (northeast Spain)	143
<b>Post-depositional evolution of sediments</b>	
ALBERTO, W., CARRARO, F., GIARDINO, M. & TIRANTI, D. Genesis and evolution of ‘pseudocarniole’: preliminary observations from the Susa Valley (Western Alps)	155
LUGLI, S., DOMINICI, R., BARONE, M., COSTA, E. & CAVOZZI, C. Messinian halite and residual facies in the Crotona basin (Calabria, Italy)	169
<b>Ancient basins</b>	
LUGLI, S., BASSETTI, M. A., MANZI, V., BARBIERI, M., LONGINELLI, A. & ROVERI, M. The Messinian ‘Vena del Gesso’ evaporites revisited: characterization of isotopic composition and organic matter	179
MATANO, F. The ‘Evaporiti di Monte Castello’ deposits of the Messinian Southern Apennines foreland basin (Irpinia–Daunia Mountains, Southern Italy): stratigraphic evolution and geological context	191
BABEL, M. & BOGUICKI, A. The Badenian evaporite basin of the northern Carpathian Foredeep as a model of a meromictic selenite basin	219
BUKOWSKI, K., CZAPOWSKI, G., KAROLI, S. & BABEL, M. Sedimentology and geochemistry of the Middle Miocene (Badenian) salt-bearing succession from East Slovakian Basin (Zbudza Formation)	247
HRYNIV, S., PARAFINIUK, J. & PERYT, T. M. Sulphur isotopic composition of K–Mg sulphates of the Miocene evaporites of the Carpathian Foredeep, Ukraine	265
VOVNYUK, S. V. & CZAPOWSKI, G. Generation of primary sylvite: the fluid inclusion data from the Upper Permian (Zechstein) evaporites, SW Poland	275
GANDIN, A. & WRIGHT, D. T. Evidence of vanished evaporites in Neoproterozoic carbonates of South Africa	285

**Regional reviews**

HRYNIV, S. P., DOLISHNIY, B. V., KHMELEVSKA, O. V., POBEREZHSKYI, A. V. & VOVNYUK, S. V. Evaporites of Ukraine: a review	309
HOVORKA, S. D., HOLT, R. M. & POWERS, D. W. Depth indicators in Permian Basin evaporites	335
Index	365