

Contents

DA SILVA, A. C., WHALEN, M. T., HLADIL, J., CHADIMOVA, L., CHEN, D., SPASSOV, S., BOULVAIN, F. & DEVLEESCHOUWER, X. Magnetic susceptibility application: a window onto ancient environments and climatic variations: foreword	1
PAS, D., DA SILVA, A. C., DEVLEESCHOUWER, X., DE VLEESCHOUWER, D., LABAYE, C., CORNET, P., MICHEL, J. & BOULVAIN, F. Sedimentary development and magnetic susceptibility evolution of the Frasnian in Western Belgium (Dinant Synclinorium, La Thure section)	15
WHALEN, M. T., ŚLIWIŃSKI, M. G., PAYNE, J. H., DAY, J. E., CHEN, D. & DA SILVA, A. C. Chemostratigraphy and magnetic susceptibility of the Late Devonian Frasnian–Famennian transition in western Canada and southern China: implications for carbon and nutrient cycling and mass extinction	37
SARDAR ABADI, M., DA SILVA, A. C., MOSSADEGH, H., SPASSOV, S. & BOULVAIN, F. Lower Carboniferous ramp sedimentation of the Central Alborz Basin, northern Iran: integrated sedimentological and rock–magnetic studies	73
DECHAMPS, S., DA SILVA, A. C. & BOULVAIN, F. Magnetic susceptibility and facies relationship in Bajocian–Bathonian carbonates from the Azé caves, southeastern Paris Basin, France	93
JADOT, H. & BOULVAIN, F. Sedimentology and magnetic susceptibility of recent sediments from New Caledonia	111
CHADIMOVA, L., VACEK, F., SOBIEN, K., SLAVIK, L. & HLADIL, J. Petrophysical record of the Late Silurian shallow-water carbonate facies across the Lau Event (Prague Synform, Czech Republic) and dynamic time warping alignment of the magnetic susceptibility logs	133
DEVLEESCHOUWER, X., RIQUIER, L., BÁBEK, O., DE VLEESCHOUWER, D., PETITCLERC, E., STERCKX, S. & SPASSOV, S. Magnetization carriers of grey to red deep-water limestones in the GSSP of the Givetian–Frasnian boundary (Puech de la Suque, France): signals influenced by moderate diagenetic overprinting	157
ALEKSEEV, A. O., KABANOV, P. B., ALEKSEEVA, T. V. & KALININ, P. I. Magnetic susceptibility and geochemical characterization of an upper Mississippian cyclothemic section Polotnyanyi Zavod, (Moscow Basin, Russia)	181
BLUMENTRITT, D. J. & LASCU, I. A comparison of magnetic susceptibility measurement techniques and ferrimagnetic component analysis from recent sediments in Lake Pepin (USA)	197
ELLWOOD, B. B., EL HASSANI, A., TOMKIN, J. H. & BULTYNCK, P. A climate-driven model using time-series analysis of magnetic susceptibility (χ) datasets to represent a floating-point high-resolution geological timescale for the Middle Devonian Eifelian stage	209
GRABOWSKI, J., NARKIEWICZ, M. & DE VLEESCHOUWER, D. Forcing factors of the magnetic susceptibility signal in lagoonal and subtidal depositional cycles from the Zachełmie section (Eifelian, Holy Cross Mountains, Poland)	225
DE VLEESCHOUWER, D., BOULVAIN, F., DA SILVA, A. C., PAS, D., LABAYE, C. & CLAEYS, P. The astronomical calibration of the Givetian (Middle Devonian) timescale (Dinant Synclinorium, Belgium)	245
MAYRHOFER, S. & LUKENEDER, A. Susceptibility and radiometry data used for stratigraphic correlations: case study on Upper Triassic beds in Turkey	257
Index	277