

Vybrané publikace / Selected publications

Impaktové publikace / Articles in journals with impact factor

SCUCKA, J., MARTINEC, P., SOUCEK, K.: Polyurethane grouted gravel type geomaterials – a model study on relations between material structure and physical-mechanical properties, *Geotechnical testing journal*, 2015. Vol. 38, No. 2, pp. 229-242.

WIERZBICKI, M., KONEČNÝ, P., KOŽUŠNÍKOVÁ, A.: Permeability changes of coal cores and briquettes under tri-axial stress conditions. *Archives of Mining Sciences*, 2014. Vol. 59, No. 4, pp. 1129-1138.

KLIKA, Z., SERENČÍŠOVÁ, J., KOŽUŠNÍKOVÁ, A., KOLOMAZNÍK, I., ŠTUDENTOVÁ, S., VONTOROVÁ, J.: Multivariate statistical assessment of coal properties. *Fuel Processing Technology*, 2014. Vol. 128, pp. 119-127.

VAŠÍČEK, Z., RABRENOVIČ, D., SKUPIEN, P., RADULOVICH, V.J., RADULOVICH, B.V., MOJSIĆ, I.: Ammonites (Phylloceratina, Lytoceratina and Ancyloceratina) and organic-walled dinoflagellate cysts from the Late Barremian in Boljetin, eastern Serbia. *Cretaceous Research*, 2014. Vol. 47, No. 1, pp. 140-159.

VAVRO, L., SOUČEK, K.: Study of the effect of moisture content and bending rate on the fracture toughness of rocks. *Acta geodynamica et geomaterialia*, 2013. Vol. 10, No. 2, pp. 247-253.

VAŠÍČEK, Z., RABRENOVIČ, D., RADULOVICH, V.J., RADULOVICH, B.V., MOJSIĆ, I.: Ammonoids (Desmoceratoidea and Silesitoidea) from the Late Barremian of Boljetin, eastern Serbia. *Cretaceous Research*, 2013. Vol. 41, No. 3, pp. 39-54.

VU, H., BERNARDI, J., JANDOVÁ, J., VACULÍKOVÁ, L., GOLIÁŠ, V.: Lithium and rubidium extraction from zinnwaldite by alkali digestion process: Sintering mechanism and leaching kinetics. *International Journal of Mineral Processing*, 2013. Vol. 123, No. 1, pp. 9-17.

RITZ, M., VACULÍKOVÁ, L., PLEVOVÁ, E., MATÝSEK, D., MALIŠ, J.: Determination of the predominant minerals in sedimentary rocks by chemometric analysis of infrared spectra. *Clays and Clay Minerals*, 2012. Vol. 60, No. 6, pp. 655-665.

RITZ, M., VACULÍKOVÁ, L., PLEVOVÁ, E., MATÝSEK, D., MALIŠ, J.: Determination of chlorite, muscovite, albite and quartz in claystones and clay shales by infrared spectroscopy and partial least-squares regression. *Acta geodynamica et geomaterialia*, 2012, Vol. 9, No. 4 (168), pp. 511–520.

KOŽUŠNÍKOVÁ, A., KONEČNÝ, P.: Influence of Temperature on the Permeability of Rocks. *Geotechnique*, 2011. Vol. 61, No. 12, pp. 1081-1085.

KONEČNÝ, P., KOŽUŠNÍKOVÁ, A.: Influence of stress on the permeability of coal and sedimentary rocks of the Upper Silesian Basin. *International Journal of Rock Mechanics and Mining Sciences*, 2011. Vol. 48, No. 2, pp. 347-352.

KAISER, J., HOLÁ, M., GALIOVÁ, M., NOVOTNÝ, K., KANICKÝ, V., MARTINEC, P., ŠČUČKA, J., BRUN, F., SODINI, N., TROMBA, G., MANCINI, L., KOŘISTKOVÁ, T.: Investigation of the microstructure and mineralogical composition of urinary calculi fragments by synchrotron radiation X-ray microtomography: a feasibility study. *Urological Research*, 2011. Vol. 39, No. 4, pp. 259-267.

VACULÍKOVÁ, L., PLEVOVÁ, E., VALLOVÁ, S., KOUTNÍK, I.: Characterization and Differentiation of Kaolins from selected Czech Deposits using infrared spectroscopy and differential thermal analysis. *Acta geodynamica et geomaterialia*, 2011. Vol. 8, No. 1, pp. 59-67.

PLEVOVÁ, E., VACULÍKOVÁ, L., KOŽUŠNÍKOVÁ, A., DANĚK, T., PLEVA, M., RITZ, M., SIMHA MARTYNKOVÁ, G.: Thermal study of sandstones from different Czech localities. *Journal of Thermal Analysis and Calorimetry*, 2011. Vol. 103, No. 3, pp. 835-843.

RITZ, M., VACULÍKOVÁ, L., PLEVOVÁ, E.: Application of infrared spectroscopy and chemometric methods to identification of selected minerals. *Acta geodynamica et geomaterialia*, 2011. Vol. 8, No. 1, pp. 47-58.

OBARA, B., KOŽUŠNÍKOVÁ, A., ŠČUČKA, J.: Automatic identification of microcracks observed on microscopic images of coarse-grained sandstone. *International Journal of Rock Mechanics and Mining Sciences*, 2011. Vol. 48, No. 4, pp. 681-686.

HOLEŠOVÁ, S., VALÁŠKOVÁ, M., PLEVOVÁ, E., PAZDZIORA, E., MATĚJOVÁ, K.: Preparation of novel organovermiculites with antibacterial activity using chlorhexidine diacetate. *Journal of Colloid and Interface Science*, 2010. Vol. 342, No. 2, pp. 593-597.

MARTINEC, P., VAVRO, M., SCUČKA, J., MASLAN, M.: Properties and durability assessment of glauconitic sandstone: A case study on Zamel sandstone from Bohemian Cretaceous Basin (Czech Republic). *Engineering Geology*, 2010. Vol. 115, No. 3/4, pp. 175-181.

RITZ, M., VACULÍKOVÁ, L., PLEVOVÁ, E.: Identification of Clay Minerals by Infrared Spectroscopy and Discriminant Analysis. *Applied Spectroscopy*, 2010. Vol. 64, No. 12, pp. 1379-1387.

PLEVOVÁ E., KOŽUŠNÍKOVÁ A., VACULÍKOVÁ L., SIMHA MARTYNKOVÁ G.: Thermal behavior of selected Czech marble samples. *Journal of Thermal Analysis and Calorimetry*, 2010, Vol. 101, No. 2, pp. 657-664.

VAŠÍČEK, Z., GEDL, E., KEDZIERSKI, M., UCHMAN, A.: Two Ammonites from the Early Cretaceous Deep-Sea Sediments of the Silesian Nappe, Polish Carpathians, and Stratigraphic Problems Resulted from Micropalaeontological Dating of their Sites. *Annales Societatis Geologorum Poloniae*, 2010. Vol. 80, No. 1, pp. 25-37.

Monografie / Monographs

MARTINEC, P., KOLÁŘ, P., MARTINEC, V., SCHEJBALOVÁ, B., TARABA, B.: Carbon dioxide and the rock massif. Ostrava: Institute of Geonics of the CAS, 2012. 153 p. ISBN 978-80-86407-28-9. 1

BÓDI, J., BÓDI, Z., ŠČUČKA, J., MARTINEC, P.: Polyurethane grouting technologies. In: Polyurethane. Rijeka: InTech Open Access Publisher, 2012 - (Zafar, F.; Sharmin, E. Eds.), pp. 307-336. ISBN 978-953-51-0726-2

AUGUSTINKOVÁ, L., MARTINEC, P., ŠČUČKA, J., PEŘINKOVÁ, M.: The Gothic Fragments of Staříč. Ostrava: Šmíra Print, 2012. 118 p. ISBN 978-80-87427-44-6. 1

MARTINEC, P., ŠČUČKA, J.: St. Martin's church - building materials and their provenance. In: St. Martin's church in Bohusov (Kozak, P., Prix, D., Zezula, M. Eds.), Ostrava: National Heritage Institute, 2011, pp. 325-334. ISBN 978-80-85034-59-2 (in Czech)

MARTINEC, P., KOLÁŘ, P., MARTINEC, V., SCHEJBALOVÁ, B., TARABA, B.: Oxid uhličitý a horninový masiv. [Carbon dioxide and the rock massif]. Ostrava: Institute of Geonics of the CAS, 2011. 138 p. ISBN 978-80-86407-14-2.1 (in Czech)

MARTINEC P. et al.: Geologické prostředí a geotechnické vlastnosti pokryvu karbonu v české části hornoslezské pánve. Ostrava: Ústav geoniky Akademie věd České republiky, v.v.i., 2008. 148 s., angl. resumé, 4 příl. ISBN 978-80-86407-54-8

ŠČUČKA J., SOUČEK K.: Stavba a vlastnosti geokompozitních materiálů s polyuretanovými pojivy. Documenta geonica 2007/1. Ostrava: Akademie věd České republiky, Ústav geoniky, 2007. 247 s. ISBN 978-80-86407-15-9.X

MARTINEC P. et al.: Termination of underground coal mining and its impact on the environment, Ostrava: ANAGRAM, 2006. 128 p. (in Czech and English version).

ČÁSLAVSKÝ M., DOPITA M., DVORÁK P., HOMOLA VL., JIRÁSEK J., KOŽUŠNÍKOVÁ A., MARTINEC P., PÁNEK P., PĚGRIMOČOVÁ J., PLEVOVÁ E., SIVEK M., STRAKA P., VACULÍKOVÁ L., VAŠEK J.: Atlas uhlí české části hornoslezské pánve. Ostrava: ANAGRAM, 2005. P. Martinec, J. Jirásek, A. Kožušníková, M. Sivek (eds.), 60 s., angl. resumé, 410 obrazových příloh na CD.