

List of the most important scientific achievements for 2013

Earth and Space Sciences

UKOPREPE - Department of Soil
UKOPRGGF - Department of Applied and Environmental Geophysics
UKOPRGGP - Department of Geology and Paleontology
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Bolanz, Ralph M. (55%) - Wierzbicka-Wieczorek, Maria (5%) - **Čaplovičová, Mária** [UKOPR000] (10%) - Uhlík, Peter [**UKOPRGLG**] (10%) - Goettlicher, Joerg (5%) - Steininger, Ralph (5%) - Majzlan, Juraj (10%) :
Structural Incorporation of As⁵⁺ into Hematite
Lit.: 28 zázň., 5 obr., 2 tab.
In: Environmental Science & Technology. - Vol. 47, No. 16 (2013), s. 9140-9147
Indikátor časopisu:
IF (JCR) **2013=5,481**
Čaplovičová, Mária bola pracovníčkou UKOPRGLG na 100%-ný úvazok do 28.2.2014. Od 1.3.2014 pracuje na 25%-ný úvazok

Matenco, Liviu (10%) - Andriessen, Paul (9%) - Avram, C. (9%) - Bada, G. (9%) - Beekman, F. (9%) - Bielik, Miroslav [**UKOPRGGF**] (9%) - Kováč, Michal [**UKOPRGGP**] (9%) - Králiková, Silvia [UKOPR000] (9%) - Minár, Jozef [**UKOPRZFG**] (9%) - Plašienka, Dušan [**UKOPRGGP**] (9%) - Stankoviánsky, Miloš (9%) :
Quantifying the mass transfer from mountain ranges to deposition in sedimentary basins: Source to sink studies in the Danube Basin-Black Sea system
Lit.: 126 zázň., 11 obr.
In: Global and Planetary Change. - Vol. 103, Spec. Iss. (2013), s. 1-18
Indikátor časopisu:
IF (JCR) **2013=3,707**

Magyar, Imre (30%) - Radivojević, Dejan (15%) - Sztanó, Orsolya (15%) - **Synak, Rastislav** [UKOPR000] (15%) - Ujszászi, Katalin (15%) - Pócsik, Márta (10%) : Progradation of the paleo-Danube shelf margin across the Pannonian Basin during the Late Miocene and Early Pliocene
Lit.: 68 zázň., 4 obr.
In: Global and Planetary Change. - Vol. 103, Spec. Iss. (2013), s. 168-173
Indikátor časopisu:
IF (JCR) **2013=3,707**
Synak, Rastislav bol interným doktorandom UKOPRGGP do roku 2014.

Osacký, Marek [**UKOPRGLG**] (50%) - Geramian, M. (20%) - Ivey, Douglas G. (10%) - Liu, Qi (10%) - Etsell, Thomas H. (10%) : Mineralogical and chemical composition of petrologic end members of Alberta oil sands
Lit.: 69 zázň., 11 obr., 5 tab.
In: Fuel. - Vol. 113 (2013), s. 148-157
Indikátor časopisu:

IF (JCR) **2013=3,406**

Hagarová, Ingrid [UKOPRGUS] (70%) - Bujdoš, Marek [UKOPRGUS] (10%) - Matúš, Peter [UKOPRGUS] (10%) - Kubová, Jana (10%) : Coacervative extraction of trace lead from natural waters prior to its determination by electrothermal atomic absorption spectrometry

Lit.: 38 zázň., 2 tab.

In: Spectrochimica Acta Part B - Atomic Spectroscopy. - Vol. 88, October (2013), s. 75-79

Indikátor časopisu:

IF (JCR) **2013=3,150**

Hurai, Vratislav (30%) - Danišik, Martin (20%) - Huraiová, Monika [UKOPRGMP] (20%) - Paquette, Jean-Louis (20%) - Ádám, Alexander (10%) : Combined U/Pb and (U-Th)/He geochronometry of basalt maars in Western Carpathians: implications for age of intraplate volcanism and origin of zircon metasomatism

Lit.: 65 zázň., 8 obr., 3 tab.

In: Contributions to Mineralogy and Petrology. - Vol. 166, No. 4 (2013), s. 1235-1251

Indikátor časopisu:

IF (JCR) **2013=3,020**

Márton, Emö (40%) - Grabowski, Jacek (20%) - Plašienka, Dušan [UKOPRGGP] (15%) - Túnyi, Igor (10%) - Krobicki, Michal (5%) - Haas, János (5%) - Pethe, Mihály (5%) : New paleomagnetic results from the Upper Cretaceous red marls of the Pieniny Klippen Belt, Western Carpathians: Evidence for general CCW rotation and implications for the origin of the structural arc formation

Lit.: 80 zázň., 8 obr., 4 tab.

In: Tectonophysics. - Vol. 592 (2013), s. 1-13

Indikátor časopisu:

IF (JCR) **2013=2,866**

Hiller, Edgar [UKOPREGE] (22%) - Petrák, Marián [UKOPR000] (15%) - Tóth, Roman [UKOPREGE] (13%) - Lalinská-Voleková, Bronislava [UKOPRGMP] (9%) - Jurkovič, Ľubomír [UKOPREGE] (10%) - Kučerová, Gabriela [UKOPRGMP] (9%) - Radková, Anežka (5%) - Šottník, Peter [UKOPRGLG] (15%) - Vozár, Jaroslav (2%) : Geochemical and mineralogical characterization of a neutral, low-sulfide/high-carbonate tailings impoundment, Markušovce, eastern Slovakia

Lit.: 55 zázň., 4 obr., 7 tab.

In: Environmental Science and Pollution Research. - Vol. 20, No. 11 (2013), s. 7627-7642

Indikátor časopisu:

IF (JCR) **2013=2,757**

Osacký, Marek [UKOPRGLG] (50%) - Šucha, Vladimír [UKOPR000] (20%) - Czimerová, Adriana (10%) - Petrák, Martin (10%) - Madejová, Jana (10%) : Reaction of smectites with iron in aerobic conditions at 75 degrees C

Lit.: 40 zázň., 9 obr., 4 tab.

In: Applied Clay Science. - Vol. 72 (2013), s. 26-36

Indikátor časopisu:

IF (JCR) **2013=2,703**

Šucha, Vladimír bol pracovníkom UKOPRGLG do 30.9.2013, pričom od čerpal neplatené voľno od 1.2.2011 do 30.9.2013.

Rozynek, Zbigniew (20%) - Zacher, Tomáš [UKOPRCFZ] (20%) - Janek, Marián [UKOPR000] (20%) - Čaplovičová, Mária [UKOPR000] (20%) - Fossum, Jon Otto (20%) : Electric-field-induced structuring and rheological properties of kaolinite and halloysite

Lit.: 39 zázň., 11 obr., 2 tab.

In: Applied Clay Science. - Vol. 77-78 (2013), s. 1-9

Indikátor časopisu:

IF (JCR) **2013=2,703**

Janek, Marián bol pracovníkom UKOPRCFZ na 50%-ný úväzok, od 1.2.2012 do 31.1.2014 pracoval 100%-ný úväzok. Od 1.2.2014 pracuje znova na 50%-ný úväzok.
Čaplovičová, Mária bola pracovníčkou UKOPRGLG na 100%-ný úväzok do 28.2.2014. Od 1.3.2014 pracuje na 25%-ný úväzok

Grinč, Michal [UKOPRGGF] (40%) - Zeyen, Hermann (40%) - Bielik, Miroslav [UKOPRGGF] (15%) - Plašienka, Dušan [UKOPRGGP] (5%) : Lithospheric structure in Central Europe: Integrated geophysical modelling
Lit.: 97 záz., 7 obr., 2 tab.
In: Journal of Geodynamics. - Vol. 66, May (2013), s. 13-24
Indikátor časopisu:
IF (JCR) **2013=2,618**

Dotterweich, Markus (25%) - Stankoviansky, Miloš (25%) - Minár, Jozef [UKOPRZFG] (25%) - Koco, Štefan (15%) - Papčo, Pavol (10%) : Human induced soil erosion and gully system development in the Late Holocene and future perspectives on landscape evolution: The Myjava Hill Land, Slovakia
Lit.: 66 záz., 12 obr., 1 tab.
In: Geomorphology. - Vol. 201 (2013), s. 227-245
Indikátor časopisu:
IF (JCR) **2013=2,577**

Aubrecht, Roman [UKOPRGGP] (50%) - Láncoz, Tomáš [UKOPREGE] (20%) - Gregor, M. (5%) - Schlögl, Ján [UKOPRGGP] (5%) - Šmída, Branislav (5%) - Liščák, Pavel (5%) - Brewer-Carías, Charles (5%) - Vlček, Lukáš (5%) : Reply to the Comment on "Sandstone caves on Venezuelan tepuis: Return to pseudokarst?"
Lit.: 24 záz., 4 obr.
In: Geomorphology. - Vol. 197, September (2013), s. 197-203
Indikátor časopisu:
IF (JCR) **2013=2,577**

Orfánus, Tomáš (20%) - Dlapa, Pavel [UKOPREPE] (20%) - Fodor, Nándor (15%) - Rajkai, Kálman (15%) - Sándor, Renáta (15%) - Nováková, Katarína (15%) : How severe and subcritical water repellency determines the seasonal infiltration in natural and cultivated sandy soils
Lit.: 58 záz., 11 obr., 4 tab.
In: Soil and Tillage Research. - Vol. 135 (2013), s. 49-59
Indikátor časopisu:
IF (JCR) **2013=2,575**

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van der Velde, Marijn (10%) - Folberth, Christian (10%) - Balkovič, Juraj [UKOPREPE] (10%) - Ciais, Philippe (10%) - Fritz, Steffen (10%) - Janssens, Ivan A. (10%) - Obersteiner, Michael (10%) - See, Linda (10%) - Skalský, Rastislav (10%) - Xiong, Wei (5%) - Penuelas, Josep (5%) : African crop yield reductions due to increasingly unbalanced Nitrogen and Phosphorus consumption

Lit.: 51 zázň., 7 obr., 2 tab.

In: Global Change Biology. - Vol. 20, No. 4 (2014), s. 1278-1288

Indikátor časopisu:

IF (JCR) 2014= [2013-8,224]

Májeková, Mária [UKOPREPE] (50%) - de Bello, Francesco (20%) - Doležal, Jiří (10%) - Lepš, Jan (20%) : Plant functional traits as determinants of population stability

Lit.: 34 zázň., 1 obr., 2 tab.

In: Ecology. - Vol. 65, No. 9 (2014), s. 2369-2374

Indikátor časopisu:

IF (JCR) 2014= [2013-5,000]

Li, Xian-Hua (25%) - Putiš, Marián [UKOPRGMP] (25%) - Yang, Yue-Heng (25%) - Koppa, Matúš [UKOPR000] (20%) - Dyda, Marian (5%) : Accretionary wedge harzburgite serpentinization and rodingitization constrained by perovskite U/Pb SIMS age, trace elements and Sm/Nd isotopes: Case study from the Western Carpathians, Slovakia

Lit.: 77 zázň., 8 obr.

In: Lithos. - Vol. 205 (2014), s. 1-14

Indikátor časopisu:

IF (JCR) 2014= [2013-3,654]

Králiková, Silvia [UKOPR000] (20%) - Vojtko, Rastislav [UKOPRGGP] (20%) - Andriessen, Paul (15%) - Kováč, Michal [UKOPRGGP] (15%) - Fuegenschuh, Bernhard (10%) - Hók, Jozef [UKOPRGGP] (10%) - Minár, Jozef [UKOPRZFG] (10%) : Late Cretaceous-Cenozoic thermal evolution of the northern part of the Central Western Carpathians (Slovakia): revealed by zircon and apatite fission track thermochronology

Lit.: 84 zázň., 7 obr., 1 tab.

In: Tectonophysics. - Vol. 615 (2014), s. 142-153

Indikátor časopisu:

IF (JCR) 2014= [2013-2,866]

Osacký, Marek [**UKOPRGLG**] (50%) - Geramian, Mirjavad (20%) - Liu, Qj (10%) - Ivey, Douglas G. (10%) - Etsell, Thomas H. (10%) : Surface Properties of Petrologic End-Members from Alberta Oil Sands and Their Relationship with Mineralogical and Chemical Composition
Lit.: 89 zázň., 10 obr., 2 tab.
In: Energy & Fuels. - Vol. 28, No. 2 (2014), s. 934-944
Indikátor časopisu:
IF (JCR) 2014= [**2013-2,733**]

Rapant, Stanislav (40%) - Cvečková, Veronika [**UKOPR000**] (10%) - Dietzová, Zuzana (10%) - Fajčíková, Katarína (10%) - Hiller, Edgar [**UKOPREGE**] (10%) - Finkelman, R. B. (10%) - Škultétyová, Simona [**UKOPREGE**] (10%) : The potential impact of geological environment on health status of residents of the Slovak Republic
Lit.: 42 zázň., 2 obr., 8 tab.
In: Environmental Geochemistry and Health. - Vol. 36, No. 3 (2014), s. 543-561
Indikátor časopisu:
IF (JCR) 2014= [**2013-2,573**]