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Kapitoly vo vedeckých a odborných monografiách

BIELIK, Miroslav - ŠEFARA, Ján - SOTÁK, Ján –
Deep structure of the Western and Eastern Carpathian junction /
Miroslav Bielik, Ján Šefara, Ján Soták, Vladimír Bezák, Peter Kubeš.
Eds.: M. Rakús. In: Geodynamic development of the Western Carpathians. - Bratislava :
Dionýz Štúr Publishers, Geological Survey of Slovak Republic, 1998,
ISBN 80-85314-94-0. – P. 259-271.
[...BEZÁK, Vladimír - KUBEŠ, Peter]

ŠEFARA, Ján – BIELIK, Miroslav – BEZÁK, Ján
Interpretation of the West Carpathians lithosphere based on geophysical
data / Ján Šefara, Miroslav Bielik, Ján Bezák.
Eds.: M. Rakús. In: Geodynamic development of the Western Carpathians.-
Bratislava : Dionýz Štúr Publishers, Geological Survey of Slovak Republic, 1998. -
ISBN 80-85314-94-0. – P. 273-280.

Štúdie a vedecké články publikované v periodikách evidovaných v Current Contents

HVOŽDARA, Milan - VALKOVIČ, Ladislav
Refraction effect in geothermal heat flow due to a 3-D prism in a two-layered
earth / Milan Hvoždara, Ladislav Valkovič.
In: Studia geophysica et geodaetica [seriál]. - ISSN 0039-3169. -
Vol. 43, no. 4 (1999), pp. 234-254.

KOSTECKÝ, Pavel - KOHÚT, Igor
Modelling of the rock structure stress field near the cavities and estimation
of the cavity effect influence on the tidal measurements / Pavel Kostecký, Igor Kohút.
In: Mathematics and Computers in Simulation [seriál]. - ISSN 0378-4754. -
Vol. 50, no. 1-4 (1999), pp. 205-214.

I. F.: 1,62

MOCZO, Peter - LUCKÁ, Mária - KRISTEK, Jozef
3D displacement finite differences and a combined memory optimization /
Peter Moczo, Mária Lucká, Jozef Kristek, Miriam Kristeková.
In: Bulletin of the Seismological Society of America [seriál]. -
Vol. 89, no. 1 (1999), pp. 69-79.
[...KRISTEKOVÁ, Miriam]

I. F.: 1,603

SMOLEN, František - OSTROŽLÍK, Marian
Radiative cooling rate in the atmospheric boundary layer/ František
Smolen, Marian Ostrožlík.
In: Időjárás [seriál]. - ISSN 0324-6329.
Vol. 102, no. 4 (1998), pp. 247-257.

VAJDA, Peter - VANÍČEK, Petr
Truncated geoid and gravity inversion for one point-mass anomaly / Peter

Vajda, Petr Vaníček.

In: Journal of Geodesy [seriál]. Vol. 73, no. 1 (1999), pp. 58-66.

VALACH, Fridrich - VÁCZYOVÁ, Magdaléna

Analysis of the geomagnetic anomaly within the Kolárovo basin using GMINV / Fridrich Valach, Magdaléna Váczyová.

In: Physics and Chemistry of the Earth [seriál] : Part A. -

Vol. 24, no. 5 (1999), pp. 461-462.

VALACH, Fridrich - VÖRÖS, Zoltán

Analysis of the meteorological disasters by geomagnetic methods / Fridrich Valach, Zoltán Vörös.

In: Revista Geofísica [seriál]. -Vol. 49, 1999, pp. 137-143.

VÖRÖS, Zoltán

Multifractal analysis of geomagnetic data / Zoltán Vörös.

In: Revista Geofísica [seriál]. - Vol. 49, 1999, pp. 111-117.

Vedecké monografie publikované doma

MATEJKA, František - HURTALOVÁ, Tatjana - ROŽNOVSKÝ, Jaroslav - JANOÚŠ, Dalibor

Vplyv mladého smrekového porastu na príľahlú vrstvu vzduchu. Bratislava : Geofyzikálny ústav SAV, 2000. 92 s. ISBN 80-85754-09-6

Kapitoly vo vedeckých knižných publikáciách publikované doma

NOVÁK, Viliam – HURTALOVÁ, Tatjana - MATEJKA, František

The influence of evapotranspiration of the different field crops on soil water balance and subsoil water vulnerability. In: (Eds: Halasi-Kun Georg J.): Environmental Protection of Soil and Water Resources - Vol. 30. Pollution and Water Resources. Columbia University Seminar Proceedings. 1998-1999. Bratislava : Institute of Hydrology SAS, 1999. Bratislava : Institute of Hydrology SAS, 1999. pp. 169-185. ISBN 80-967808-7-5

Publikácie v periodikách evidovaných v Current Contents

HURTALOVÁ, Tatjana - MATEJKA, František

Surface characteristics and energy fluxes above different plant canopies.

In: Agricultural and Forest Meteorology. Vol. 98-99, 1999, no. 1-4, pp. 491-500

I.F.: 1,466

LANKREIJER, Anco - BIELIK, Miroslav - CLOETINGH, Sierd -

MAJCIN, Dušan

Rheology predictions across the western Carpathians, Bohemian massif and the Pannonian basin: Implications for tectonic scenarios.

In: Tectonics. Vol. 18, 1999, no. 6, pp. 1139-1153

I.F.: 2,221

MATEJKA, František - HURTALOVÁ, Tatjana

Water regime of plant canopies and the structure of their energy balance.

In: Agricultural and Forest Meteorology. Vol. 98-99, 1999, no. 1-4, CD ROM

I.F.: 1,466

MOCZO, Peter - KRISTEK, Jozef - BYSTRICKÝ, Erik

Stability and grid dispersion of the P-SV 4th-order staggered-grid finite-difference schemes. In: Studia geophysica et geodaetica.

Vol. 44, 2000, no. 3, pp. 381-402

MOCZO, Peter - KRISTEK, Jozef - HALADA, Ladislav

3D fourth-order staggered-grid finite-difference schemes: Stability and grid dispersion. In: Bulletin of the Seismological Society of America.

Vol. 90, 2000, no. 3, pp. 587-603

I.F.: 1,851

RAFAJDUS, P. - KOSTECKÝ, Pavel - HRABOVCOVÁ, V. - KOHÚT, Igor

High-order FEM analysis of electromagnetic fields. In: Compel-The International Journal for Computation and Mathematics in Electrical and

Electronic Engineering. Vol. 19, 2000, no. 2, pp. 323-331

I.F.: 0,133

SCHENK, Vladimír - SCHENKOVÁ, Zdenka - KOTTNAUER, Pavel - GUTERCH, Barbara
– LABÁK, Peter

Earthquake hazard for the Czech Republic, Poland and Slovakia-contribution
to the ILC/IASPEI global seismic hazard assessment program. In: Natural Hazards. Vol. 20,
2000, no. 2-3, pp. 331-345

I.F.: 0,295

VÖRÖS, Zoltán

On multifractality of high-latitude geomagnetic fluctuations.

In: Annales Geophysicae-Atmospheres Hydrospheres and Space Sciences.

Vol. 18, 2000, no. 10, pp. 1273-1282

I.F.: 1,727

2 0 0 1

Odborné práce zverejnené na internete

MOCZO, Peter - BIELIK, Miroslav - LABÁK, Peter - BEDNÁRIK, Martin
Slovak National Centennial Report to IASPEI.
[http:// www/whklee.org/Main/National_Report_PDFs/Slovak_Republic/TEXT.pdf](http://www.whklee.org/Main/National_Report_PDFs/Slovak_Republic/TEXT.pdf)

Kapitoly vo vedeckých knižných publikáciách publikované doma

CIPCIAR, Andrej - LABÁK, Peter - MOCZO, Peter -
KRISTEKOVÁ, Miriam
Monitorovanie seizmických javov Národnou sieťou seizmických staníc.
In: Geologické práce. Bratislava: Štátny geologický ústav Dionýza Štúra.
Správy. č. 106 (2001)

Publikácie v periodikách evidovaných v Current Contents

HESEK, Ferdinand
Modelling of air pollution from road traffic. International Journal
of the Environment and Pollution. Vol. 16, 2001, no. 3, pp. 920-927
IF.: 0,213

HURTALOVÁ, Taťjana - JANOUŠ, Dalibor - MARKOVÁ, Irena
Aerodynamic properties of a young spruce stand. Ekológia.
Vol. 20, 2001, no. 3, pp. 310-318
IF.: 0,145

KOCIFAJ, M. - KOHÚT, Igor - ZAUJEC, Pavol
On applicability of model aerosol distributions for urban region of Bratislava
city. Atmospheric Environment. Vol. 35 (30), 2001, pp. 5105-5115
IF.: 2,003

KOVÁCS, Péter - CARBONE, Vincenzo - VÖRÖS Zoltán
Wavelet-based filtering of intermittent events from geomagnetic time-
series. Planetary and Space Sciences. Vol. 49, 2001, no. 12, pp. 1219-1231
IF.: 1,075

MOCZO, Peter - KRISTEK, Jozef - BYSTRICKÝ, Erik
Efficiency and optimization of the 3-D finite-difference modeling of
seismic ground motion. Journal of Computational Acoustics.
Vol. 9, 2001, no. 2, pp. 593-609
IF.: 0,404

Publikácie evidované v iných databázach

AUBRECHT, Roman - TÚNYI, Igor

Original orientation of neptunian dykes in the Pieniny Klippen Belt (Western Carpathians): the first results. Contributions to Geophysics and Geodesy. Vol. 31, 2001, no. 3, pp. 557-578

BEDNÁRIK, Martin - BRIMICH, Ladislav - DUDÁŠOVÁ, Viera
Results of the extensometric measurements at the Vyhne tidal station. Contributions to Geophysics and Geodesy. Vol. 31, 2001, no. 4, pp. 635-642

BIELIK, Miroslav - LANKREIJER, Anco - ZOETEMEIJER, Reini
Using of gravity and geothermal fields to rheological study of the Western Carpathians and the surrounding tectonic units. Österreichische Beiträge zu Meteorologie und Geophysik. Heft 26, 2001, pp. 47-59

2 0 0 2

Vedecké práce v časopisoch evidovaných v Current Contents

BIELIK, Miroslav – KOVÁČ, Michal – KUČERA, Ivan – MICHALÍK, Pavol – ŠUJAN, Martin – HÓK, Jozef

Neo-Alpine linear density boundaries (faults) detected by gravimetry. *Geologica Carpathica*. Vol. 53, 2002, no. 4, pp. 235-244

I.F.: 0,167

HVOŽDARA, Milan – PRIGANCOVÁ, Alina

Geomagnetic effects due to an eclipse-induced low-conductivity ionospheric spot. *Journal of Geophysical Research : Space Physics*. Vol. 107, no. A12, 2002, SIA 14-1, 14-13

I.F.: 2,680

JANKOVIČOVÁ, Dana - DOLINSKÝ, Peter - VALACH, Fridrich - VÖRÖS, Zoltán

Neural network based nonlinear prediction of magnetic storms. *Journal of Atmospheric and Solar-Terrestrial Physics*. Vol. 64, 2002, no. 5-6, pp. 651-656

I.F.: 1,044

KRISTEK, Jozef - MOCZO, Peter - ARCHULETA, Ralph J.

Efficient methods to simulate planar free surface in the 3D 4th-order staggered-grid finite-difference schemes. *Studia geophysica et geodaetica*. Vol. 46, 2002, no. 2, pp. 355-381

I.F.: 0,680

ORLICKÝ, Oto - FUNAKI, Minoru

Study of laboratory induced self-reversed thermoremanent magnetization and the Fe-Ti oxides of the dacite ash from the 1991 Pinatubo eruption (Philippines). *Studia geophysica et geodaetica*. Vol. 46, 2002, no. 3, pp. 527-544

I.F.: 0,680

VAJDA, Peter – VANÍČEK, Petr

The 3-D truncation filtering methodology defined for planar spherical models. Interpreting gravity data generated by point masses. *Studia geophysica et geodaetica*. Vol. 46, no. 3, 2002, pp. 469-484

I.F.: 0,680

VÖRÖS, Zoltán

Neural network based nonlinear prediction of magnetic storms. *Journal of Atmospheric and Solar-Terrestrial Physics*. Vol. 64, 2002, no. 5-6, pp. 651-656

I.F.: 1,044

VÖRÖS, Zoltán - JANKOVIČOVÁ, Dana

Neural network prediction of geomagnetic activity: a method using local Hölder exponents. *Nonlinear Processes in Geophysics*. Vol. 9, no. 5, 2002, pp. 425-433

I.F.: 1,262

VÖRÖS, Zoltán - JANKOVIČOVA Dana – KOVÁCS, Péter
Scaling and singularity characteristics of solar wind and magnetospheric
fluctuations. Nonlinear Processes in Geophysics. Vol. 9, no. 2, 2002,
pp. 149-162

I.F.: 1,262

ZEYEN, Hermann – DÉREROVÁ, Jana – BIELIK, Miroslav
Determination of the continental lithospheric thermal structure
in the Western Carpathians: integrated modelling of surface heat
flow, gravity anomalies and topography. Physics of the Earth and
Planetary Interiors. Vol. 134, issue 1-2, 2002, pp. 89-104

I.F.: 1,387