

Vedecké monografie vydané doma

1. ĐURČANSKÁ, Daniela - ČAJKOVÁ, Anna - ČELKO, Ján - DECKÝ, Martin – HESEK, Ferdinand - ŠIMKO, Ján - VALUCH, Milan
Posudzovanie vplyvov ciest a diaľnic na životné prostredie. Žilina : Žilinská univerzita, 2002. 257 s. - ISBN 80-8070-029-X

Štatistika publikačnej činnosti:

AAB Vedecké monografie vydané v domácich vydavateľstvách	1
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Knižné odborné publikácie vydané doma

1. MOCZO, Peter - LABÁK, Peter - CIPCIAR, Andrej - KRISTEKOVÁ, Miriam - BIELIK, Miroslav - ŠAJGALÍKOVÁ, Jana - REŽUCHOVÁ, D....
100 rokov seizmológie na Slovensku. Bratislava : Geofyzikálny ústav SAV a FMFI UK Bratislava, 2002. 106 s. – ISBN 80-85754-11-8

BAB Oborné monografie vydané v domácich vydavateľstvách	1
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1. BIELIK, Miroslav - DÉREROVÁ, Jana - ZEYEN, Hermann
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2. BIELIK, Miroslav - KOVÁČ, Michal - KUČERA, Ivan - MICHALÍK, Pavol - ŠUJAN, Martin - HÓK, Jozef
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Neural network based nonlinear prediction of magnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics. Vol. 64, 2002, no. 5-6, pp. 651-656
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7. KRUCZYK, Jadwiga – KADZIALKO-HOFMOKL, Magdalena – JELENSKA, Maria - TÚNYI, Igor - GAZDAČKO, Ľubomír – GRABOWSKI, Jacek
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ADC Vedecké práce v zahraničných karentovaných časopisoch	10
ADD Vedecké práce v domácich karentovaných časopisoch	8
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6. Cipciar, Andrej - Labák, Peter - Moczo, Peter - Kristeková, Miriam
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7. HESEK, Ferdinand
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8. HURTALOVÁ, Taťjana - HAVRÁKOVÁ, Kateřina - JANOUŠ, Dalibor - MATEJKA, František
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35. VAJDA, Peter - BRIMICH, Ladislav
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ADE Vedecké práce v zahr. nekarent. časopisoch	6
ADF Vedecké práce v dom. nekarent. časopisoch	29

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a) recenzovaných

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3. KOVÁČOVÁ, Monika - KRISTEKOVÁ Miriam
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3. HURTALOVÁ, Tatjana - USOWICZ, Boguslav - KOSSOWSKI, Jan - MATEJKA, František
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3. BRIMICH, Ladislav: Posudok na 3 články do časopisu: Contributions to Geophysics and Geodesy
4. HESEK, Ferdinand – recenzia na článok
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Houbová, E.: Fyzikální modelování proudění a difuze nad geograficky komplikovaným terénem. Meteorologické zprávy.
6. KRISTEK, Jozef - recenzia 1 článku pre časopis Journal of Seismology (2002)
7. KRISTEKOVÁ, Miriam - recenzia 2 článkov pre časopis Studia geophys. geod.(2002)
8. LABÁK, Peter - recenzia 2 článkov pre Studia geophys. geod. (2002)
9. recenzia 1 článku pre Geologica Carpathica (2002)
10. recenzia návrhu knihy pre Cambridge University Press
11. Orlický, Oto: Posudok na prácu autorov
M. Kadzialko-Hofmokl, Jelenska, M. Studia geophysica et geodaetica.
12. OSTROŽLÍK, Marian: Recenzentský posudok na článok
Gaál, L. – Lapin, M.: Extreme several day precipitation at the Hurbanovo observatory (Slovakia) during the 20th century. Contributions to Geophysics and Geodesy.
13. VAJDA, Peter: posudok na článok
Anatunes, C. – Pail, R. – Catalao, J.: Geoid determination by points mass method. Studia geophysica et geodaetica.
14. VAJDA, Peter: posudok na 3 články do časopisu Contributions to Geophysics and Geodesy

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EDI Recenzie v domácich časopisoch	19

Spolu	19

Prednášky a vývesky na vedeckých podujatiach s min 30% zahraničnou účasťou

IGP 430 Workshop II.

(Ha Long Bay, Vietnam, April 1-5, 2002)

1. [KMB] Bielik, Miroslav: Relationship between mantle-lithosphere dynamics resulting from plate collision in the Eastern Alpine-Western Carpathian-Pannonian basin region

XVII. Congress of Carpathian-Balkan Geological Association.

(Bratislava, Slovensko 1-4 septembra 2002)

2. [KMB] Bielik, Miroslav - Déerová, Jana – Zeyen, Hermann: New approach for determination of the Western Carpathian lithospheric thermal structure
3. [KMC] Bielik, Miroslav - Déerová, Jana – Zeyen, Hermann: New approach for determination of the Western Carpathian lithospheric thermal structure
4. [KMC] Bielik, Miroslav - Vozár, Jozef – Šantavý, Jaroslav: Multidisciplinary interpretation of gravity field in the Western Carpathians and the Bohemian Massif junction
5. [KMB] CELEBRATION Working Group (Bielik, Miroslav) : Central European Lithospheric Experiment Based on Refraction 2000. The CELEBRATION 2000 seismic experiment
6. [KMB] CELEBRATION Working Group (Bielik, Miroslav): Structure of the Earth's crust along CEL 01 seismic profile in the area from EEC through Carpathians to Pannonian Basin
7. [KMB] CELEBRATION Working Group (Bielik, Miroslav): Crustal seismic structure along the CELEBRATION 2000 CEL 04 profile - preliminary results
8. [KMB] CELEBRATION Working Group (Bielik, Miroslav): Trans-Carpathian seismic profile CEL 05 from precambrian platform to Pannonian basin
9. [KMB] CELEBRATION Working Group (Bielik, Miroslav): P-wave velocity model of the Bohemian Massif (CEL 09)
10. [KMC] Gregorová, Dagmar – Kohút, Milan – Hrouda, František: Magnetic susceptibility, geochemistry and origin of variscan West Carpathian granites: Evaluation of literary data
11. [KMB] Túyi, Igor -Máton, Emő: Cenozoic paleomagnetic rotations in the Inner Western Carpathians
12. [KMB] Vajda Peter - Bielik Miroslav - Pohánka Vladimír: An interpretation of the Kolárovo gravity anomaly using the truncation filtering methodology
13. [KMB] Vozárová, Anna – Túnyi, Igor: Recognition of the illawarra reversal horizon in the Permian of the Western Carpathians (Slovakia)

WORKSHOP CELEBRATION 2000.

(Warszawa, Poľsko, November 11-16, 2002)

14. [KMB] CELEBRATION Working Group (Bielik, Miroslav): Preliminary results of seismic modelling of the lithosphere structure for CELEBRATION profiles CEL 01, CEL 04, CEL 05, CEL 06, CEL 09, CEL 11 – Slovak part

**XXVII. General Assembly : EGS Meeting .
(Nice, Francúzsko, April 2002)**

15. [KMB] Brimich Ladislav - Kohút Igor - Kostecký Pavel: Theoretical modelling of the strain field and gravity perturbation due to magmatic intrusion
16. [KMB] Jankovičová, Dana - Vörös, Zoltán: Neural network prediction of geomagnetic storms: a method using regularity-scaling characteristics
17. [KMB] Vörös, Zoltán – Kovács, Péter – Jankovičová, Dana: Multifractal analysis of magnetospheric and solar wind data: local scalings and global distributions
18. [KMB] Túnyi, Igor – Guba, Peter – Roth, L. E. – Timko, Márton: Impulse magnetic fields generated by electrostatic discharges in protoplanetary nebulae
19. [KMB] Vozárová, Anna – Túnyi, Igor: Magnetostratigraphy of the Western Carpathians Prmian (Slovak Republic)

**28th General Assembly of the European Seismological Commission.
(Genoa, Italy 31.8-7.9, 2002)**

20. [KMB] Kristeková, Miriam - Kováčová, Monika: A new tool for time-frequency analysis of signals with nonlinear dispersion: „quadratic“ matching pursuit decomposition
21. [KMB] Labák, Peter - Hammerl, Christa: The January 15, 1858 Zilina earthquake – identification of localities, estimation of site intensities and earthquake parameters
22. [KMB] Labák, Peter - Kováčová, Monika: Semiautomatic intensity estimation for the macroseismic data acquired using the new Slovak macroseismic questionnaire. In: Abstracts of the 28th General Assembly of the European Seismological Commission, Genoa, 2002

**AGU Fall Meeting.
(San Francisco, 6-10 December 2002)**

23. [KMB] Kristek, Jozef - Moczo, Peter: 3D 4-th order staggered-grid finite-difference modeling of seismic motion in viscoelastic media with material discontinuities
24. [KMB] Labák, Petr: Intensity estimation using the MSK-64 and EMS-98 scales for selected historical earthquakes
25. [KMB] Moczo, Peter - Kristek, Jozef - Gális, M.: Simulation of the planar free surface in media with near-surface lateral discontinuities in the 3D 4th-order staggered-grid finite-difference modeling of seismic motion

**18st International Conference of Carpathian Meteorology.
(Belgrad, Jugoslavia, 7 – 11 October 2002)**

26. [KMB] Ostrožlík, Marian: Time variability of global solar radiation in the High Tatras region
27. [KMB] Pribullová, Anna: Spectral UV aerosol optical thickness determined from the Poprad-Gánovce observations

**Bioklíma-prostředí-hospodářství : XIV. Česko-slovenská
bioklimatologická konference
(Lednice, Česká republika 2. -4 . 9. 2002)**

28. [KMB] Hurtalová, Tatjana – Matejka, František – Rožnovský, Jaroslav – Chalupníková, Blanka.: Aerodynamické vlastnosti systému porast kukurice-prostredie
29. [KMC] Hurtalová, Tatjana - Matejka, František - Janouš, Dalibor – Havránková, Kateřina – Rožnovský, Jaroslav: Aerodynamic properties of an air layer affected by a young spruce forest stand – five growing season
30. [KMB] Matejka, František – Rožnovský, Jaroslav – Chalupníková, Blanka – Hurtalová, Tatjana: Štruktúra evapotranspirácie porastu kukurice
31. [KMB] Ostrožlík, Marian: Premenlivosť globálneho žiarenia vo vysokohorských polohách
32. [KMB] Ostrožlík, Marian – Smolen, František: Transformácia slnečného žiarenia v hraničnej vrstve atmosféry
33. [KMB] Prigancová, Alina – Petropoulos, Basil: Slnečná činnosť vo vzťahu ku klimatickým zmenám
34. [KMB] Valach, Fridrich: Modelovanie závislosti množstva hmyzu vo svetelných pasciach na poveternostnej situácii pomocou umelej neurónovej siete

**8th Castle Meeting : Paleo, Rock and Environmental Magnetism : New Trends in
Geomagnetism VIII.
(Prague : Castle of Záhradky, Czech Republic, September 2-7, 2002.)**

35. [KMB] Gregorová, Dagmar – Hroudá, František – Plasienka, Dušan: Magnetic fabrics in granitic rocks of the Bratislava and Modra massifs (Malé Karpaty Mts)
36. [KMB] Orlický, Oto: Field-reversal versus self-reversal hypothesis: paleomagnetic properties, magnetic mineralogy and the reproducible self-reversal PTRM of volcanic rocks
37. [KMB] Orlický, Oto - Dawoud, M. - Broska, Igor: Magnetic properties and paleomagnetism of the Precambrian granites from the Abu El-Hasan Pluton (Egypt)
38. [KMC] Orlický, Oto - Dawoud, M. - Broska, Igor: Magnetic properties and paleomagnetism of the Precambrian granites from the Abu El-Hasan Pluton (Egypt)
39. [KMB] Túnyi, Igor – Márton, Emő: Paleomagnetic investigation of the Carpathian-North European platform collision zone

**Lecture at the Freie Universität Berlin, Institut für Geologische Wissenschaften.
(Berlin, Germany, June 5, 2002)**

40. [KMB] Vajda, Peter: Applications of the truncation filtering methodology

**Lecture at the Friedrich-Schiller-Universität Jena. Institut für Wissenschaften Jena.
(Jena, Germany, June 7, 2002)**

41. [KMB] Vajda, Peter: Geodynamic applications of the truncation filtering methodology

**14. konference českých a slovenských fyziků.
(Plzeň, Česká republika, 9.-12. září 2002)**

42. [KMB] Túnyi, Igor – Guba, Peter – Roth, L. E. – Timko, Márton: Impulse magnetic fields generated by electrostatic discharges in protoplanetary nebulae

**XVI. Electromagnetic Fields and Materials.
(Bratislava, Slovensko, September 2002)**

43. [KMC] Ševčík S. – Ondrášková, A. – Turňa, Ľ. – Kostecký, P. – Rosenberg, L. – Blažek, D. – Kúdelčík, J. – Kohút, Igor - Rafajdus P.: The magnetic sensor for the Schumann resonance measurements and its optimization

**Transport vody, chemikálií a energie v systéme pôda-
rastlina-atmosféra : X. posterový deň s medzinárodnou účasťou.
(Bratislava, Slovensko 28. novembra 2001)**

44. [KMC] Kocifaj, Miroslav – Kohút, Igor: Vplyv nesféricity aerosólu na intenzitu priameho slnečného žiarenia = An influence of aerosol asphericity on the direct solar radiation intensity
45. [KMC] Hurtalová, Taťjana - Usowicz, Boguslav - Kossowski, Jan - Matejka, František: Vplyv vegetácie na pôdnu vlhkosť a mikroklimu
46. [KMC] Hurtalová, Taťjana - Matejka, František - Janouš, Dalibor – Havráňková, Kateřina – Rožnovský, Jaroslav: Aerodynamic properties of an air layer affected by a young spruce forest stand – five growing season
47. [KMC] Ostrožlík, Marian – Smolen, František: Transformácia slnečného žiarenia v hraničnej vrstve atmosféry

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(Bratislava, Slovensko, September 2002)**

48. [KMB] Ševčík, S. – Ondrášková, A. – Turňa, Ľ. – Kostecký, Pavol – Rosenberg, L. – Blažek, D. – Kúdelčík, J. – Kohút, Igor – Rafajdus, P.: The observations of Schumann resonance magnetic components and their interpretation

**Slovak – Polish meetings on the results of bilateral joint projects.
(Bratislava, Slovensko, 20. – 21. 6. 2002)**

49. [KMC] Hurtalová, Taťjana – Usowicz, Boguslav – Kossowski, Jan - Matejka, František: Effect of vegetation on soil moisture and microclimate

**10 years of Global Change Research in Czech Republic : medzinárodná konferencia.
(Ostravice, Česká republika, 22.-25. 10. 2002)**

- 50. [KMC] Hurtalová, Taťjana – Matejka, František – Rožnovský, Jaroslav – Janouš, Dalibor – Havránková, Katarína: Aerodynamic characteristics of a young spruce forest stand during five growing seasons
- 51. [KMB] Matejka, František – Janouš, Dalibor – Rožnovský, Jaroslav – Hurtalová, Taťjana: Microclimatic effects of stand density in a young spruce forest
- 52. [KMC] Střelcová, Kateřina – Matejka, František: Beech stand transpiration assesment – two methodical approaches

**Workshop on Magnetosphere-Ionosphere Processes.
(Tihany, Hungary, 2002)**

- 53. [KMB] Kovács, Péter – VÖRÖS, Zoltán
A turbulence model for dynamical magnetosphere

**Algoritmy 2002 : 16th Conference on Scientific Computing.
(Vysoké Tatry-Podbanské, Slovensko, 8-13. september 2002)**

- 54. [KMB] Kováčová, Monika -Kristeková Monika: New version of matching pursuit decomposition with correct representation of linear chirps

**Inter-academia 2002 : 1st International Conference on Global Research and Education.
(Bratislava, Slovensko, 23. – 26. septembra 2002)**

- 55. [KMB] Moczo, Peter - Kristek, Jozef: 2002. Recent problems in modeling seismic motion.

**Ústav kozmického výskumu, Rakúska Akadémia vied.
(Graz, Rakúsko, 2002)**

- 56. [KMB] Vörös, Zoltán: Nonlinear modelling of magnetospheric processes

**Xth IAGA Workshop on Geomagnetic Instruments, Data Acquisition and Processing.
(Hermanus Magnetic Observatory, South Africa, 15-24 April 2002)**

- 57. [KMC] Váczyová, Magdaléna: The geomagnetic field and its secular variation in Slovakia

**International School of Geophysics - 21st course : Investigating
the records of past earthquakes.
(Erice, Italy, 1-7. July 2002)**

- 58. [KMB] LABÁK, Peter: Historical earthquake research in Central Europe (Austria, Czech Republic, Hungary, Poland and Slovakia) – an overview

**International Visegrad Fund – Paleoclimate Workshop.
(Bratislava, Slovensko, 5-7. júna 2002)**

59. [KMB] Túnyi, Igor: Paleogeographical, paleological, paleoclimatical, development of Central Europe
60. [KMB] Kováč, Michal – Andreyeva Grigoroviak, Aida – Baráth, Ivan – Fordinál, Klement – Halásová, Eva – Hudáčková, Natália – Joviak, Peter – Sabol, Martin – Sliva, Ľubomír – Török, Ingrid – Túnyi, Igor: Lahl miocene to Pliocen sedimentary environments and limatic changes in the Alpine-Carpathian.Pannonian junction area: a case study from the Danube Basin northern margin (Slovakia)
61. [KMB] Túnyi, Igor – Vass Dionýz, - Konečný, Vlastimil: Anomalous paleomagnetic directions of Carpathian and Badenian rocks, Southern Slovakia

**VII. medzinárodný seminár Českej tektonickej skupiny.
(Želazno, Poľsko, 9-12 May, 2002)**

62. [KMC] Gregorová, Dagmar – Plasienka, Dušan – Hrouda, František
Magnetic fabrics in granitic rocks of the Bratislava and Modra massifs (Malé Karpaty Mts)

**Workshop at Nat. Institut for Polar Research.
(Tokyo, Japan, 20-24 May 2002)**

63. [KMB] TÚNYI, Igor – DOLINSKÝ, Peter – VALACH, Fridrich: Interpretation of magnetic survey at mt. Riiser-Larsen, antarctica.

Štatistika publikačnej činnosti:

KMB Prihlásené referáty na medzinárodných ved. konferenciách	48
KMC Postery na medzinárodných ved. konferenciách	15

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Ostatné prednášky a vývesky

**Seminár pre doktorandov SOK Tektonika.
(Bratislava : ŠGÚDŠ, Slovensko 15. február 2002)**

1. [KNB] Bielik, Miroslav: Geofyzika litosféry Západných Karpát

**Seminár pre doktorandov SOK Tektonika.
(Bratislava : ŠGÚDŠ, Slovensko 13. december 2002)**

2. [KNC] Vozár, J. - Bielik, Miroslav - Mikuška, J. - Pašteka, R. - Richter, P. - Szalaiová, V. - Lanc, J.: Nové trendy a výsledky geologického výskumu Západných Karpát

**16. celoštátny slnečný seminár.
(Turčianske Teplice, Slovensko, 3.-7. júna 2002)**

3. [KNB] Bieleková, Melánia – Prigancová, Alina- Bielek, Jozef:
Dynamika slnečného svitu v matematickom vyjadrení
4. [KNB] Hvoždara, Milan – Prigancová, Alina: Geomagnetické efekty
úplného zatmenia Slnka 11. augusta 1999
5. [KNB] Prigancová, Alina – Feldstejn, Ya. I.: Zákonitosti generovania
magnetickej búrky
6. [KNB] Túnyi, Igor . Guba, Peter – Roth, Ladislav – Timko, Milan:
Impulzné magnetické polia generované elektrostatickými výbojmi
v protoplazme - báзовých hmlovinách
7. [KNB] Valach, Peter: Umelá neurónová sieť – príklad použitia

**Seminár pri príležitosti 10. výročia existencie stanice Stará Lesná.
Stará Lesná, Slovensko, 12.-14. júna 2002)**

8. [KNB] Pribullová, Anna: O predpovedi UV indexu
9. [KNB] Smolen, František: Z histórie výstavby meteorologického
observatória pri Astronomickom ústave v Starej Lesnej

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(Banská Bystrica, Slovensko, 23-24. októbra 2002)**

10. [KNB] Túnyi, Igor – Dolinský, Peter – Valach, Fridrich:
Meranie GMP na vybraných letiskách

Štatistika:

KNB Prihlásené referáty na domácich ved. konferenciách	9
KNC Postery na domácich ved. konferenciách	1

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Vydávané periodiká evidované v Current Contents

Ostatné vydávané periodiká

1. HVOŽDARA, Milan (Ved.red.) - BRIMICH, Ladislav (Zodp.red.) - BIELIK, Miroslav (Zostav.) - BOĎA, Ján (Zostav.) - BRESTENSKÝ, Jozef (Zostav.) - GAJDOŠ, Vojtech (Zostav.) - HEFTY, Ján (Zostav.) – HURTALOVÁ, Tat'jana - (Zostav.) - MOCZO, Peter (Zostav.) - MOJZEŠ, Marcel (Zostav.) - PANÁČEK, Adrián (Zostav.) - PRIGANCOVÁ, Alina (Zostav.) - SIRÁŇ, Gustáv (Zostav.) - ŠEFARA, Ján (Zostav.) - ŠEVČÍK, Sebastián (Zostav.) - TÚNYI, Igor (Zostav.) - VÖRÖS, Zoltán (Zostav.)
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Spolu 1

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1. OSTROŽLÍK, Marian
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2. VÁCZYOVÁ, Magdaléna
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(bibliografie, časopisy, zborníky, ročenky....) 3

Spolu 3

Vydané alebo editované zborníky z vedeckých podujatí

1. HURTALOVÁ, Tatjana - ORFÁNUS, T. (Ved.red.) - MIKULEC, V. (Ved.red.) - BAČA, P. (Ved.red.) - HORNÁČEK, L. (Ved.red.) – MATEJKA, František
X. posterový deň s medzinárodnou účasťou "Transport vody, chemikálií a energie v systéme pôda-rastlina-atmosféra, 28.11.2002. = Xth International Poster Day „Transport of Water, Chemicals and Energy in the system Soil-Crop Canopy-Atmosphere”. Bratislava : Ústav hydrológie SAV, Geofyzikálny ústav SAV, 2002.
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Spolu 1

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1. VAJDA, Peter: The truncation filtering methodology
<http://gpi.savba.sk/gravimetry/TFhome.htm>

2. VAJDA, Peter: The use of truncated geoids in gravity data interpretation
<http://einstein.gge.unb.ca/members/Vajda/UNB-tg/TF-home.htm>

Štatistika:

AHG vedecké práce uverejnené na internete	2
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Citácie vo WOS

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Citácie WOS: 3

LILLIE, Robert J. - BIELIK, Miroslav -
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Alpine-Western Carpathian Pannonian Basin Region.
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1. [1] SEARS, J. W.: Emplacement and denudation history of the Lewis-Eldorado-Hoadley thrust slab in the northern Montana Cordillera, USA: implications for steady-state orogenic processes. American Journal of Science. Vol. 301, no. 4-5 (2001), pp. 359-373. - ISSN 0002-9599

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5. [1] EUGSTER, W. – ROUSE, W. R. – PIELKE, R. A. – McFADDEN, J. P. – BALDOCCHI, D. D. – KITTEL, T. G. F. – CHAPIN, F. S. – LISTON, G. E. – VIDALE, P. L. – VAGANOV, E. – CHAMBERS, S.: Land-atmosphere energy exchange in Artic tundra and boreal forest: available data and feedbacks to climate. Global Change Biology. Vol. 6, suppl. 1 (2000), pp. 84-115. ISSN 1354-1013

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8. [1] ÁDAM, A.: Relation of the graphite and fluid bearing conducting dikes to the tectonics and seismicity (review on the Transdanubian crustal conductivity anomaly). Earth Planets Space. Vol. 53, no. 9 (2001), pp. 903-918 – ISSN 1343-8832
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