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RECTORATUL

## Universitatea Babeş-Bolyai Competiția Excelenței 2010

### Dosar individual

**Notă: Toate datele se referă la perioada 2005-2009**

Nume, prenume, grad did.	ONAC, BOGDAN PETRONIU
Facultatea, Catedra	Geologie
Domeniul științific	Geologie
Adresa paginii web personale	
Adresa e-mail	bogdan.onac@ubbcluj.ro

### Criteriaul I – Output

**1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)**

1. Dorale, J.A., **Onac, B.P.**, Fornós, J.J., Ginés, J., Ginés, A., Tuccimei, P., Peate, D.W. 2010: Sea-level highstand 81,000 years ago in Mallorca. *Science* **327**: 860-863.
2. Wynn, J., Sumrall, J., **Onac, B.P.** 2010: Sulfur isotopic composition and the source of dissolved sulfur species in thermo-mineral springs of the Cerna Valley, Romania. *Chemical Geology* **271**: 31-43.
3. Puscas, C.M., **Onac, B.P.**, Tamas, T. 2010: The mineral assemblage of caves within Șălitrari Mountain (Cerna Valley, SW Romania): depositional environment and speleogenetic implications. *Carbonates and Evaporites* doi: 10.1007/s13146-010-0015-4.
4. Häuselmann, A.D., Häuselmann, P., **Onac, B.P.** 2010: Speleogenesis and deposition of sediments in Cioclovina Uscata Cave, Sureanu Mountains, Romania. *Environmental Earth Sciences* (formerly *Environmental Geology*; doi: 10.1007/s12665-010-0470-1).
5. McGee, D.K., Wynn, J.G., **Onac, B.P.**, Harries, P.J., Rothfus, E.A. 2010: Tracing groundwater geochemistry using d13C on San Salvador Island (southeastern Bahamas): implications for carbonate hydrogeology and dissolution. *Carbonates and Evaporites* doi: 10.1007/s13146-010-0013-6.
6. **Onac, B.P.**, Sumrall, J., Tămaș, T., Povară, I., Kearns, J., Dârmiceanu, V., Veres, D., Lascu, C. 2009: The relationship between cave minerals and hypogene activity along the Cerna Valley (SW Romania). *Acta Carsologica* **38 (1)**: 67-79.
7. **Onac, B. P.**, Bernhardt, H.-J., Effenberger, H. 2009: Authigenic burbankite in the Cioclovina Cave sediments (Romania). *European Journal of Mineralogy* **21**: 507-514.
8. Cinta Pinzaru, S., **Onac, B. P.** 2009: Raman study of natural berlinite from the Cioclovina Cave phosphate deposit. *Vibrational Spectroscopy* **49**: 97-100.
9. **Onac, B. P.**, Effenberger, H. 2009: Apatite-(CaOH) in the fossil bat guano deposit from the “Dry” Cioclovina Cave, Sureanu Mountains, Romania. *Canadian Mineralogist* **47**: 207-208.

10. **Onac, B. P.**, Pace-Graczyk, K., Atudorei, V. 2008: Stable isotope study of precipitation and cave drip water in Florida (USA): implications for speleothem-based paleoclimate studies. *Isotopes in Environmental and Health Studies* **44** (2): 149-161.
11. **Onac, B. P.**, Constantin, S. 2008: Archives of Climate and Environmental Change in Karst. *Quaternary International* **187**: 1-4.
12. Zak, K., **Onac, B. P.**, Perşoiu, A. 2008: Cryogenic carbonates in cave environments: a review. *Quaternary International* **187**: 84-96.
13. **Onac, B. P.**, Effenberger, H. 2007: Re-examination of berlinite from Cioclovina Cave, Romania. *American Mineralogist* **92**: 1998-2001.
14. Feurdean, A., Mosbrugger V., **Onac, B. P.**, Polyak, V., Vereş, D. 2007: Younger Dryas to mid-Holocene environmental history of the lowlands of NW Transylvania, Romania. *Quaternary Research* **68** (3): 364-378.
15. **Onac, B. P.**, Hess, J. W., White, W. B. 2007: The relationship between the mineralization of breccia pipes and mineral composition of speleothems: evidence from Corkscrew Cave, Arizona, USA. *Canadian Mineralogist* **45** (5): 1177-1188.
16. **Onac, B. P.**, Effenberger, H, Ettinger, K., Panzaru Cinta, S. 2006: Hydroxylellastadite from Cioclovina Cave (Romania): microanalytical, structural, and vibrational spectroscopy data. *American Mineralogist* **91**: 1927-1931.
17. **Onac, B. P.**, Viehmann, I., Lundberg, J., Lauritzen, S. E., Stringer, C., Popiță, V. 2005: U-Th ages constraining the Neanderthal footprint at Vârtope Cave, Romania. *Quaternary Science Reviews* **24** (10/11): 1151-1157.
18. **Onac, B. P.**, Ettinger, K., Kearns, J., Balasz, I. I. 2005: A modern, guano-related occurrence of foggite,  $\text{CaAl}(\text{PO}_4)(\text{OH})_2 \cdot \text{H}_2\text{O}$  and churchite-(Y),  $\text{YPO}_4 \cdot 2\text{H}_2\text{O}$  in Cioclovina Cave, Romania. *Mineralogy and Petrology* **85**: 291-302.
19. Tămaş, T., **Onac, B. P.**, Bojar, A.-N. 2005. Lateglacial-Middle Holocene stable isotope records in two coeval stalagmites from the Bihor Mountains, NW Romania. *Geological Quarterly* **49** (2): 185-194.
20. Holmlund, P., **Onac, B. P.**, Hansson, M., Holmgren, K., Mörth, M., Nyman, M. & Perşoiu, A. 2005: Assessing the palaeoclimate potential of cave glaciers: the example of the Scărișoara Ice Cave (Romania). *Geografiska Annaler* **87A**: 193-201.

## 2. Articole științifice publicate în ISI proceedings

## 3. Articole științifice indexate în BDI (din lista CNCSIS)

1. **Onac, B. P.**, Fornós, J. J., Ginés, A., Ginés, J. 2005: Mineralogical reconnaissance of caves from Mallorca Island. *Endins*, **27**: 131-140.
2. **Onac, B. P.**, Zaharia, L., Kearns, J., Veres, D. 2006: Vashegyite from Gaura cu Musca Cave (Locvei Mountains, Romania): a new and rare phosphate occurrence. *Int. J. Speleology* **35** (2): 67-73.
3. Zak, K., **Onac, B. P.**, Hercman, H. 2006: Unusual types of secondary cave calcite from the Scărișoara Ice Cave, Bihor Mts., Romania. In *Proc. Conf. "Research, exploitation, and protection of caves 5"* (Ed. Bella, P.), Slovak Cave Administration and Knizné Centrum, Zilina, Slovakia, 118-122.
4. Häuselmann, P., **Onac, B. P.** 2006: Pestera Humpleu. Nouvelle topographie d'une des plus importantes cavités roumaines. *Stalactites* **56** (1): 43-47.
5. **Onac, B. P.**, Fornós, J. J., Ginés, J., Ginés, A., Tuccimei, P., Peate, D. W., Björck, S. 2006: Sea-level position at ~80 ka based on speleothems from Mallorca. In *Archives of climate change in karst* (Onac et al., eds.), Karst Waters Institute Spec. Publ. 10, 189-191.
6. Menichetti M., Chirienco M.I., **Onac B.P.**, Bottrell S. 2008: Depositi di gesso nelle grotte del Monte Cucco e della Gola di Frasassi - Considerazioni sulla speleogenesi. *Memorie dell'Istituto Italiano di Speleologia*, s. II, vol. **XXI**: 484-501.

7. **Onac, B. P.**, Sumrall, J., Tamas, T., Cizmas, C., Darmiceanu, V., Povara, I., Nicolita, L. 2009: Mineralogical and stable isotope investigations of minerals from caves on Cerna Valley (Romania). *Proc. 15th Int. Congr. Speleol., Kerrville, Texas*, 1: 318-323.
8. Merino, A., Fornos, J. J., Onac, B. P. 2009: Preliminary data on mineralogical aspects of cave rims and vents in Cova des Pas de Vallgornera, Mallorca. *Proc. 15th Int. Congr. Speleol., Kerrville, Texas*, 1: 307-311.
9. Tuccimei, P., Soligno, M., Fornos, J. J., Gines, A., Gines, J., **Onac, B. P.**, Villa, I. M. 2009: Precipitation of phreatic overgrowths at the water table of meteoric-marine mixing zones in coastal cave systems: a useful tool in sea level change reconstruction. *Proc. 15th Int. Congr. Speleol., Kerrville, Texas*, 1: 554-560.
10. Perşoiu, A., Bojar, A. –V., **Onac, B. P.** 2007: Stable isotopes in cave ice: what do they tell us. *Studia Universitatis Babeş-Bolyai, Geologia*, **52** (1): 59-62.
11. **Onac, B. P.**, Effenberger, H. S., Breban, R. 2007: High-temperature and “exotic” minerals from the Cioclovina Cave, Romania: a review. *Studia Universitatis Babeş-Bolyai, Geologia*, **52** (2): 3-10.

#### **4. Alte articole științifice/capitole publicate în reviste/volume cu referenți (peer-reviewed)**

1. **Onac, B. P.**, Veres, D., Tamas, T., C.S. Montana Baia-Mare, Todoran, V. 2010: The hydrogeology of Cuciulat-Purcuret-Boiu Mare karst area, northern part of the Somes Plateau, Romania. In *Karst Hydrogeology of Romania* (Oraseanu, I. & Iurkiewicz, A., eds.), *in press*.
2. Gabrian, I., Tamas, T., Sahy, D., **Onac, B. P.** 2010: Ponor Plateau (south-eastern Plopiș Mountains). In *Karst Hydrogeology of Romania* (Oraseanu, I. & Iurkiewicz, A., eds.), *in press*.
3. **Onac, B. P.** 2007: *Caves of Romania. A worthy treasure* (Selișcan, D., ed.). SING, 3-23.
4. **Onac, B. P.** 2005: *Minerals*. In: *Encyclopedia of Caves* (Culver, D & White, W.B., eds.), Academic Press, New York, p. 371-378.

#### **5. Cărți științifice publicate în edituri internaționale**

**Onac, B. P.**, Sumrall, J., Mylroie, J. E., Kearns, J. 2008: *Cave minerals of San Salvador Island, Bahamas*. USF Library Press, 70 p.

#### **6. Cărți științifice publicate în edituri naționale acreditate**

**Onac, B. P.**, Perşoiu, A., Racoviță, G., Tămaș, T., Viehmann, I. 2007: *Scărișoara*. Studia, Cluj, 84 pp.

#### **7. Editor de volume publicate în edituri naționale și internaționale**

**Onac, B. P.**, Tămaș, T., Constantin, S., Perşoiu, A. (eds.) 2006: *Archives of Climate Change in Karst*. Karst Waters Institute Spec. Publ., 10, Charles Town WV, 246 pp.

#### **8. Brevete internaționale**

#### **9. Brevete naționale**

#### **10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relație cu economia**

#### **11. Realizări artistice naționale și internaționale (Domeniul Arte)**

(Expoziții, spectacole, concerte, publicații, filme, înregistrări)

## **Criteriul II – Prestigiu profesional**

### **1. Citări ale articolelor ISI listate la Criteriul I**

*Peste 100 citari la lucrarile publicate din 2005 incoace*

#### **E.g. Citări articole 2005-2009**

Genise, J.F., Melchor, R.N., Bellosi, E.S., Verde, M.  
Chapter 7 Invertebrate and Vertebrate Trace Fossils from Continental Carbonates  
(2009) *Developments in Sedimentology*, 61 (C), pp. 319-369.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-72149097885&partnerID=40&md5=ab0697b02a29f5835ca720936f10af8e>  
DOCUMENT TYPE: Review  
SOURCE: Scopus

Drahota, P., Filippi, M.  
Secondary arsenic minerals in the environment: A review  
(2009) *Environment International*, 35 (8), pp. 1243-1255. Cited 1 time.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-70349335376&partnerID=40&md5=9fc551b5f262a02515c722dfb64d62c6>  
DOCUMENT TYPE: Review  
SOURCE: Scopus

Buczko, K., Magyari, E.K., Bitušik, P., Wacnik, A.  
Review of dated late Quaternary palaeolimnological records in the Carpathian region, east-central Europe  
(2009) *Hydrobiologia*, 631 (1), pp. 3-28. Cited 1 time.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-67449105514&partnerID=40&md5=b783dde6365ea48ded0b0183ace9d02c>  
DOCUMENT TYPE: Review  
SOURCE: Scopus

Tantau, I., Reille, M., de Beaulieu, J.-L., Farcas, S., Brewer, S.  
Holocene vegetation history in Romanian Subcarpathians  
(2009) *Quaternary Research*, 72 (2), pp. 164-173.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-68349139734&partnerID=40&md5=bd8e0085cd2091389c64d371c055b7b5>  
DOCUMENT TYPE: Article  
SOURCE: Scopus

Magyari, E., Buczko, K., Jakab, G., Braun, M., Pál, Z., Karátson, D., Pap, I.  
Palaeolimnology of the last crater lake in the Eastern Carpathian Mountains: A multiproxy study of Holocene hydrological changes  
(2009) *Hydrobiologia*, 631 (1), pp. 29-63.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-67249127043&partnerID=40&md5=cea9b1f2c164069b58175799cbb236b4>  
DOCUMENT TYPE: Article  
SOURCE: Scopus

Onac, B.P., Sumrall, J., Tămaş, T., Povară, I., Kearns, J., Dârmiceanu, V., Veres, D., Lascu, C.

The relationship between cave minerals and H<sub>2</sub>S - rich thermal waters along the cerna valley (SW Romania) [Povezava med jamskimi minerali in termalnimi vodami bogatimi z žveplovodikom v dolini cerne (JZ Romunija)]

(2009) *Acta Carsologica*, 38 (1), pp. 27-39. Cited 1 time.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67749133639&partnerID=40&md5=fa3e113fb813cc2a6feb83c058b354c0>

DOCUMENT TYPE: Article

SOURCE: Scopus

Kern, Z., Molnár, M., Svingor, E., Perşoiu, A., Nagy, B.

High-resolution, well-preserved tritium record in the ice of Borţig ice cave, Bihor Mountains, Romania

(2009) *Holocene*, 19 (5), pp. 729-736.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-70349462633&partnerID=40&md5=08963ecec169278ac80b07f38595e7ad>

DOCUMENT TYPE: Article

SOURCE: Scopus

White, W.B., Vito, C., Scheetz, B.E.

The mineralogy and trace element chemistry of black manganese oxide deposits from caves

(2009) *Journal of Cave and Karst Studies*, 71 (2), pp. 136-143.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-74949092748&partnerID=40&md5=03557e25215d29e1ea864260852adfdf>

DOCUMENT TYPE: Article

SOURCE: Scopus

Žák, K., Hercman, H., Orvoňová, M., Jačková, I.

Cryogenic cave carbonates from the Cold Wind Cave, Nízke Tatry Mountains, Slovakia:

Extending the age range of cryogenic cave carbonate formation to the Saalian

(2009) *International Journal of Speleology*, 38 (2), pp. 139-152.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67649845483&partnerID=40&md5=c3ae1a3db5d64768de4d9397bead0b82>

DOCUMENT TYPE: Article

SOURCE: Scopus

Stoffel, M., Luetscher, M., Bollschweiler, M., Schlatter, F.

Evidence of NAO control on subsurface ice accumulation in a 1200 yr old cave-ice sequence, St. Livres ice cave, Switzerland

(2009) *Quaternary Research*, 72 (1), pp. 16-26.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67349173667&partnerID=40&md5=041d7e9876c9116e9ff2bc6f49555d4f>

DOCUMENT TYPE: Article

SOURCE: Scopus

Lacelle, D., Lauriol, B., Clark, I.D.

Formation of seasonal ice bodies and associated cryogenic carbonates in caverne de l'ours, Québec, Canada: Kinetic isotope effects and pseudo-biogenic crystal structures

(2009) *Journal of Cave and Karst Studies*, 71 (1), pp. 48-62. Cited 1 time.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67649868712&partnerID=40&md5=a201b6cfb6add38c97c1cc713e63e5b4>

DOCUMENT TYPE: Article

SOURCE: Scopus

Cîntă Pînzaru, S., Onac, B.P.

Raman study of natural berlinite from a geological phosphate deposit

(2009) *Vibrational Spectroscopy*, 49 (2), pp. 97-100.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-60249085556&partnerID=40&md5=6f0e1329d14cea317d3020025d04c144)

[60249085556&partnerID=40&md5=6f0e1329d14cea317d3020025d04c144](http://www.scopus.com/inward/record.url?eid=2-s2.0-60249085556&partnerID=40&md5=6f0e1329d14cea317d3020025d04c144)

DOCUMENT TYPE: Article

SOURCE: Scopus

Onac, B.P., Bernhardt, H.-J., Effenberger, H.

Authigenic burbankite in the Cioclovina Cave sediments (Romania)

(2009) *European Journal of Mineralogy*, 21 (2), pp. 507-514.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-67649510261&partnerID=40&md5=cf41e6aa0c7be9b2ce6c24421b9b68bb)

[67649510261&partnerID=40&md5=cf41e6aa0c7be9b2ce6c24421b9b68bb](http://www.scopus.com/inward/record.url?eid=2-s2.0-67649510261&partnerID=40&md5=cf41e6aa0c7be9b2ce6c24421b9b68bb)

DOCUMENT TYPE: Article

SOURCE: Scopus

Marincea, S., Dumitra, D.-G.

Apatite-(CaOH) in the fossil bat guano deposit from the "dry" cioclovina cave, scedil ureanu mountains, romania: reply

(2009) *Canadian Mineralogist*, 47 (1), pp. 208-210.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-63849275828&partnerID=40&md5=e1f614a0741c5c03be41a051849cc491)

[63849275828&partnerID=40&md5=e1f614a0741c5c03be41a051849cc491](http://www.scopus.com/inward/record.url?eid=2-s2.0-63849275828&partnerID=40&md5=e1f614a0741c5c03be41a051849cc491)

DOCUMENT TYPE: Article

SOURCE: Scopus

Lockley, M., Roberts, G., Kim, J.Y.

In the footprints of our ancestors: An overview of the hominid track record

(2008) *Ichnos:an International Journal of Plant and Animal*, 15 (3-4), pp. 106-125.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-57349113081&partnerID=40&md5=9bb03a8584c95cb7fd7b10bccd5a3cf5)

[57349113081&partnerID=40&md5=9bb03a8584c95cb7fd7b10bccd5a3cf5](http://www.scopus.com/inward/record.url?eid=2-s2.0-57349113081&partnerID=40&md5=9bb03a8584c95cb7fd7b10bccd5a3cf5)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Scaillet, S., Vita-Scaillet, G., Guillou, H.

Oldest human footprints dated by Ar/Ar

(2008) *Earth and Planetary Science Letters*, 275 (3-4), pp. 320-325. Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-54249086073&partnerID=40&md5=65baf63693ee169564a6079c5546e5db)

[54249086073&partnerID=40&md5=65baf63693ee169564a6079c5546e5db](http://www.scopus.com/inward/record.url?eid=2-s2.0-54249086073&partnerID=40&md5=65baf63693ee169564a6079c5546e5db)

DOCUMENT TYPE: Article

SOURCE: Scopus

Feurdean, A., Klotz, S., Brewer, S., Mosbrugger, V., Tămaş, T., Wohlfarth, B.

Lateglacial climate development in NW Romania - Comparative results from three quantitative pollen-based methods

(2008) *Palaeogeography, Palaeoclimatology, Palaeoecology*, 265 (1-2), pp. 121-133. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-47349089120&partnerID=40&md5=2b6690936b9d3ba4d831de26ca8e2106)

[47349089120&partnerID=40&md5=2b6690936b9d3ba4d831de26ca8e2106](http://www.scopus.com/inward/record.url?eid=2-s2.0-47349089120&partnerID=40&md5=2b6690936b9d3ba4d831de26ca8e2106)

DOCUMENT TYPE: Article

SOURCE: Scopus

Feurdean, A., Klotz, S., Mosbrugger, V., Wohlfarth, B.

Pollen-based quantitative reconstructions of Holocene climate variability in NW Romania

(2008) *Palaeogeography, Palaeoclimatology, Palaeoecology*, 260 (3-4), pp. 494-504. Cited 4 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-41149155221&partnerID=40&md5=c859348ca0c521bdd04a5e65a2cb2e17>

DOCUMENT TYPE: Article

SOURCE: Scopus

Dumitraş, D.-G., Marincea, Ş., Bilal, E., Hatert, F.

Apatite-(CaOH) in the fossil bat guano deposit from the "dry" Cioclovina Cave, Sureanu Mountains, Romania

(2008) *Canadian Mineralogist*, 46 (2), pp. 431-445. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-48249114387&partnerID=40&md5=f96b8a2d1ad0fe466b983f667c2dbd02>

DOCUMENT TYPE: Article

SOURCE: Scopus

Fleitmann, D., Mudelsee, M., Burns, S.J., Bradley, R.S., Kramers, J., Matter, A.

Evidence for a widespread climatic anomaly at around 9.2 ka before present

(2008) *Paleoceanography*, 23 (1), art. no. PA1102, . Cited 6 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-45449113775&partnerID=40&md5=e062176200aab4608ad67d5f4b18b4b4>

DOCUMENT TYPE: Article

SOURCE: Scopus

Luetscher, M., Boliuș, D., Schwikowski, M., Schotterer, U., Smart, P.L.

Comparison of techniques for dating of subsurface ice from Monlesi ice cave, Switzerland

(2007) *Journal of Glaciology*, 53 (182), pp. 374-384. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-37549068125&partnerID=40&md5=0903eae8693a069b5a6636a3bc075a1>

DOCUMENT TYPE: Article

SOURCE: Scopus

Onac, B.P., Effenberger, H.S.

Re-examination of berlinite (AIPO<sub>4</sub>) from the Cioclovina Cave, Romania

(2007) *American Mineralogist*, 92 (11-12), pp. 1998-2001. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-37149038883&partnerID=40&md5=2fa4cf960a23012476adc31136de9566>

DOCUMENT TYPE: Review

SOURCE: Scopus

Kern, Z., Popa, I.

Climate-growth relationship of tree species from a mixed stand of Apuseni Mts., Romania

(2007) *Dendrochronologia*, 24 (2-3), pp. 109-115. Cited 4 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33846215853&partnerID=40&md5=7ef905f4f7222a8dcccc4175be83aec7>

DOCUMENT TYPE: Article

SOURCE: Scopus

Constantin, S., Bojar, A.-V., Lauritzen, S.-E., Lundberg, J.

Holocene and Late Pleistocene climate in the sub-Mediterranean continental environment: A speleothem record from Poleva Cave (Southern Carpathians, Romania)

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[33845345635&partnerID=40&md5=8bbd963a7a8ae2e6d4455a97679b4c4c](http://www.scopus.com/inward/record.url?eid=2-s2.0-33845345635&partnerID=40&md5=8bbd963a7a8ae2e6d4455a97679b4c4c)

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Blyth, A.J., Farrimond, P., Jones, M.

An optimised method for the extraction and analysis of lipid biomarkers from stalagmites

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SOURCE: Scopus

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Fairchild, I.J., Smith, C.L., Baker, A., Fuller, L., Spötl, C., Matthey, D., McDermott, F.

Modification and preservation of environmental signals in speleothems

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Mickler, P.J., Stern, L.A., Banner, J.L.

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Jiang, X., Wang, Y., Kong, X., Wu, J., Shao, X., Xia, Z., Cheng, H.  
Abrupt climate change of East Asian Monsoon at 130 kaBP inferred from a high resolution stalagmite  $\delta^{18}\text{O}$  record  
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-33748864062&partnerID=40&md5=542a12e8a55738190b818a9a027c040e>  
DOCUMENT TYPE: Article  
SOURCE: Scopus

Baldini, J.U.L., McDermott, F., Baker, A., Baldini, L.M., Matthey, D.P., Railsback, L.B.  
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Tămaş, T., Onac, B.P., Bojar, A.-V.  
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SOURCE: Scopus

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First reported sedimentary occurrence of berlinite ( $\text{AlPO}_4$ ) in phosphate-bearing sediments from Cioclovina Cave, Romania - Comment  
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SOURCE: Scopus

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<http://www.scopus.com/inward/record.url?eid=2-s2.0-18844389778&partnerID=40&md5=2bc3d9ca94ed2414ab67a44214e0f9fd>  
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SOURCE: Scopus



Boratyńska, K., Marcysiak, K., Boratynski, A.  
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DOCUMENT TYPE: Article  
SOURCE: Scopus

## **2. Alte citări ale lucrărilor listate mai sus**

suficiente

## **3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005**

suficiente

## **4. Distincții, premii și alte recunoașteri naționale și internaționale**

## **5. Studenți naționali atrași (activități de coordonare științifică și didactică)**

- Îndrumare lucrari de licență (număr lucrări susținute) - 17
- Îndrumare lucrări de disertație (număr lucrări susținute) - 5
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)  
Aurel Persoiu, Puscas Montana, Virgil Dragusin
- Post-doctoranzi (lista nominală)

## **6. Studenți internaționali atrași (activități de coordonare științifică și didactică)**

- Îndrumare lucrari de licență (număr lucrări susținute)
- Îndrumare lucrări de disertație (număr lucrări susținute) - 1
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)
- Post-doctoranzi (lista nominală)

## **7. Membru in comitetul de redacție la reviste ISI**

Acta Carsologica, International Journal of Speleology

## **8. Membru in comitetul de redacție la reviste BDI**

Studia Universitatis Babes-Bolyai, Geologia

## **9. Participări la programe/granturi de cercetare finanțate din sursă internațională (se menționează și valoarea)**

*Dendrochronology, <sup>14</sup>C time-scale and mechanism of rapid climate change during the last deglaciation (PI of the Work Package (Speleothems) in the EC Collaborative Research)*  
(2006-2010; European Science Foundation; \$421,378);

## **10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)**

(1) *Investigatii izotopice si paelomagnetice asupra schimbarilor climatice rapide inregistrate in depozitele carstice (2005 - 2008, CEEX – in parteneriat cu Inst. de Speologie.*

**11. Coordonări de programe/granturi finanțate din sursă internațională (se menționează și valoarea)**

(1) 2008-2010 **National Science Foundation, USA (P2C2)** - *Northern Annular Mode (NAM) Variability during the Little Ice Age and Medieval Warm Period in a Cave Ice Core Record from Northwestern Romania (PI) - \$141,000*

(2) *Ice deposits in caves: a novel paleoclimate archive* (May 1, 2008 – April 30, 2010; Division of Sponsored Research, USF, **\$44,340**)

(3) *Sea-level changes in western Mediterranean recorded on unusual cave deposits from Mallorca, Spain* (Division of Sponsored Research, USF, **\$8,600**);

(4) 2008-2009 **NSF - US-Spain Planning Visit: Collaborative Research on Sea-Level Changes Recorded in Coastal Caves of Mallorca (PI) - \$10,000**

**12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)**

(1) *Identificarea pesterilor hipogene de pe Valea Cernei prin studii izotopice (IDEI 544 – 2007-2010)*

(2) *Reconstituiri paleoclimatice pe baza studiului interdisciplinar al depozitelor de gheata din pesterile Romaniei (CNCSIS 2006-2008);*

(3) *Interferenta dintre carst si campurile geotermale (CNCSIS- 2003-2005).*

**13. Profesor invitat la universitati de prestigiu, cu titlu oficial**

*Professor la Universitatea South Florida, Tampa, USA: sustinut cursurile de Geologia Carstului, Petrologie sedimentara, Geologia Cuaternarului si Paleoclimatologie*

**14. Membru în comisii profesionale relevante, cu titlu oficial**

Vice-Presedinte al **European Society of Isotope Research** (fost presedinte 2005-2007)

Presedinte al *Cave Minerals Commission* din Uniunea Internationala de Speologie

**15. Conferințe invitate internaționale**

**2008**

*Sea-level changes documented in caves from Mallorca (Spain) – University of Alabama (February 29)*

**2007**

*Sea-level changes documented in caves from Mallorca – University of Iowa (October 5)*

*Caving from the Crest of the Alps to the Shores of the Black Sea: Caves and Karst of Central and Eastern Europe – University of New Mexico at Carlsbad (February 22)*

**2006**

*Sea level changes in Mallorca – University of Puerto Rico at Mayaguez (March 13)*

*Paleoclimate of selected phosphate deposits – 21st Regional Phosphate Conference, Lakeland, Florida*

**2005**

*Why study cave minerals – University of South Florida (April, 2005)*

## 16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

2006 – *Climate change: the karst record – congres international organizat la Baile Herculane*  
2007- *European Society for Isotope Research Symposium in Cluj*

### **III. Realizare remarcabilă**

(Descrieți într-o manieră cât mai accesibilă (în maximum 1 pagină) cea mai importantă realizare științifică/tehnică/artistică din ultimii 5 ani și impactul acesteia.)

Probabil cea mai interesanta si importanta contributie o reprezinta lucrarea recent aparuta in *Science* care pune in evidenta faptul ca bine cunoscutele cicluri glaciare de 100,000 de ani trebuie revizuite. Studiul nostru pe depozitele din pesterile litorale (insula Mallorca) evidentiaza ca ~81,000 de ani in urma, cand se considera ca eram in plina era glaciara, nivelul Marii Mediterane era cu 1 m mai sus decat in prezent, fapt ce denota o topire masiva a ghetarilor si nu o crestere in volum a acestora.

Data:

10 martie 2010-03-10

**Certific validitatea datelor prezentate**

Sef de catedră,

Semnătura:

