

CURRICULUM VITAE

Personal information:

Name: **ONAC**, Petroniu Bogdan
Work address: University of South Florida, School of Geosciences,
4202 E. Fowler Ave., NES 107, Tampa, FL 33620
Work telephone: (813) 974-1067; Fax: (813) 974-4808
E-mail: bonac@usf.edu;
WEB: <http://bonac.myweb.usf.edu/BogdanOnac/Home.html>

Education:

1982-1987: Babes-Bolyai University (BBU), Geology, Cluj-Napoca, Romania
1977-1981: High School of Chemistry, Satu-Mare, Romania
1969-1977: Elementary and Secondary School, Satu-Mare, Romania

Academic degree: 1996 Ph.D. from Babes-Bolyai University, Cluj-Napoca, Romania
The Ph.D. thesis: *Speleothems from caves in Padurea Craiului Mountains: a mineralogic, crystallographic, and paleoclimatic study*
1987 B.Sc. from Babes-Bolyai University, Cluj-Napoca, Romania

Position held:

8/2015 – present: **Professor** – School of Geosciences, USF
7/2020 – present **Adjunct Research Professor**, BBU Cluj-Napoca
8/2011 – 7/2015: **Associate Professor** – School of Geosciences, USF
10/2005 – 7/2011: **Assistant Professor** – Dept. of Geology, USF, Tampa
2001 – 09/2005: **Professor** - Dept. of Geology, BBU Cluj-Napoca
1999 – 2001: **Reader** - Dept. of Geology, BBU Cluj-Napoca
1996 – 1999: **Lecturer** - Dept. of Geology, BBU Cluj-Napoca
10/2005 – 10/2020 Courtesy Researcher Speleological Institute in Cluj-Napoca
12/1991 – 9/2005: Senior Researcher, Speleological Institute in Cluj-Napoca

Courses taught: Karst Geology, Quaternary Geology, Sedimentary & Carbonate Petrology, Paleoclimate, Carbonate Environment, Carbonate Island Karst, Doctoral Dissertation (**at USF**); Crystallography, Karst Science, Isotope Geochemistry & Geochronology, Soil Geology (**at BBU**).

Interests: Paleoclimate reconstruction based on cave deposits; Mineralogy/ Isotope Geochemistry; Quaternary Geology; Karst geomorphology.

Work experience:

1987-1991 *Senior Geologist*, Suncuius Mining Enterprise, Romania.
1991 -9/2005 *Senior Researcher*, Romanian Academy, Speleological Institute, Cluj
1996 – 10/2005 Dept. of Geology, Babes-Bolyai University, Cluj
1993-94 (4 months) *Junior Research Fellow*, Dept. of Quaternary Geology, Bergen University, Norway
1995 (9 months) *Ph.D. student*, Dept. of Quaternary Geology, Bergen University, Norway
1996-97 (4 months) *Visiting Fellow*, Dept. of Quaternary Geology, Bergen University, Norway
1998-99 (6 months) *Fulbright Postdoctoral Fellow*, Pennsylvania State University, USA

1999 (9 months) *Postdoctoral Fellow*, Dept. of Quaternary Geology, Lund University, Sweden
2000 (1 month) *Visiting Fellow*, Dept. of Geology, Univ. of Copenhagen, Denmark
2002 (5 months) *Visiting Professor*, Dept. of Geology, University of Bergen, Norway
2004 (2 months) *Visiting Professor*, Dept. of Earth Sciences, Balearic Islands University, Palma de Mallorca, Spain
2024 (4 months) *Fulbright Fellow*, University of Zadar, Croatia

Publications: I have published (alone, coauthored) 12 books, edited 4 books/proceedings, 20 chapters, and 180 papers (95 of which in ISI-ranked journals) (*see list of publications following my CV*).

Membership: I am member of the American Geophysical Union, Geological Society of America, European Geosciences Union, American Mineralogical Society, International Union of Speleology, National Speleological Society, and European Society for Isotope Research.

I evaluate(d) grant proposals submitted to the NSF, European Science Foundation, National Geographic, Austrian Science Foundation, Czech and Croatian Science Foundation, and Romanian Council for University Research. I am also a member in the panel for grant evaluation of the Italian Ministry for Education University and Research (MIUR).

Grant History:

Current grants:

2022-2025: **NSF (P2C2)**: Collaborative Research: Constraints on Last Interglacial and Late Holocene Global Mean Sea Level and fingerprinting polar ice mass flux from broadly distributed coastal caves (**PI**) - **\$268,681**

2022-2024: **National Park Service** - Climate and vegetation reconstructions using ice and guano cores in lava tubes at El Malpais, NM (**PI**) - **\$35,000**

I have completed the following grants:

2020-2023: **NSF (Paleoclimate)**: Exploring the paleoenvironmental data archived in ice deposits from lava tubes before its imminent loss to ice melting (**PI**) - **\$181,309**

2021-2022: **NCKRI**: Late Holocene climate variability from ice caves in Hawaii (**PI**) - **\$25,000**

2016-2020: **NSF (P2C2)** - Collaborative Research: A 5-million-year record of western Mediterranean Sea level variability (**PI**) - **\$614,854**

2016-2019: **National Park Service** - Climate and vegetation reconstructions using ice and guano cores in lava tubes at El Malpais, NM (**PI**) - **\$38,317**

2011-2016: **CNCS** - *Stable isotope signature in cave guano as archive of past environments* (PN-II-ID-PCE-2011-3-0588; Romanian National Research Council) (**PI**) - **\$434,177**

2011-2015: **NSF (P2C2)** - *Sea-level variability over the past 200,000 years precisely reconstructed from carbonate deposits in Mallorca caves* (**PI**) - **\$301,684**

2013-2015: **NSF** - *Ocean acidification in the Canada Basin: Roles of sea ice* (**co-PI**) - **\$201,190**

2010-2013: **KARSTHIVES** - *Climate archives in karst - an integrated approach to the study and modeling of abrupt climate oscillations* (National Authority for Scientific Research, Romania) (PI: S. Constantin, ISER Bucharest); (**co-PI Onac**) - **\$196,249**

2010-2012: **NSF** - *Sea level changes into MIS 5: from observations to predictions (PI) - \$23,234.*

2008-2012: **NSF (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) - \$132,694*

2008-2010: *Ice deposits in caves: a novel paleoclimate archive; Division of Sponsored Research, USF, (PI) - \$44,340;*

2008-2010: *Identification of hypogene caves on Cerna Valley (Romania) based on stable isotope analysis; Romanian National University Research Council, (PI) - \$141,106*

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

2008: *Sea-level changes in western Mediterranean recorded on unusual cave deposits from Mallorca, Spain (Division of Sponsored Research, USF, (PI) - \$8,600)*

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

2007: *A 150,000-years climate reconstruction in the Caribbean region based on cave deposits (CAS - USF; (PI) - \$980)*

2006-2008: *Paleoclimate reconstructions based on interdisciplinary studies of ice deposits from caves in Romania; Ministry of Education and Research, Romania; (PI) - \$25,878)*

Pre-USF grants:

2003-2006: *Chemical reactions within the cave environment: mineralogical, geochemic, and geochronological aspects (Ministry of Education and Research, Romania; (PI) - €2,500);*

2000-2002: *Mineralogy, dating and soil pollution - World Bank Grant; (PI) - \$50,000);*

2000-2003: *Interference between karst and geothermal fields (Ministry of Education and Research, Romania; (PI) - €11,237)*

2001-2002: *Extreme climatic events during the last 25,000 years recorded in cave deposits from NW Romania (Grant HPRI-CT-1999-00008; European Community within the Large Scale Geochemical Facility Program (PI) -£10,000)*

1997-2000: *Quaternary paleoclimate reconstruction in NW Romania based on cave deposits (Ministry of Education and Research, Romania; (PI) - €5,000)*

Research grants received by students I advise(d):

K. Pace-Grazyck: \$6,200; L. Soto: \$2,500; A. Persoiu: \$16,780; J.G. Sumrall: \$500; L.M. Boop: \$2,500; M. Puscas: \$3,500; D. Cleary (NSF EAPSI Program Award for Taiwan - 2 months; GSA \$1,250); O.A. Dumitru (Romanian Science Foundation, \$7,500; CRF, \$3,500; GSA, \$1,250); L. Calabro' (\$3,000 Tharp; \$500 SE GSA)

Languages: English (speak, read, and write fluently), French (speak and read fluently), Italian (read well, speak satisfactory); Norwegian/Swedish/Hungarian (basic speak and read).

Congresses: I have presented 141 papers (oral or poster) in different Geological and Speleological meetings in Brazil, China, South Africa, USA, England, Portugal, Italy, Sardinia, Hungary,

Switzerland, Norway, Sweden, Puerto Rico, Greece, Poland, Slovenia, Belgium, Spain, Austria, Serbia, Croatia, Czech Republic, and Mexico.

Field work: I have participated on various Karst or Quaternary Geology field trips (pre- and post-congress or thematic courses) and field activities in: Roraima, Venezuela (sandstone karst), Cuba, Arctic Ocean (August-October 2012: Healy Ice Breaker expedition; NSF project), Sweden (Abisko and surroundings, Kullaberg, Skane), Norway (Andoya, Glomdal, Spitsbergen, Tromso, etc.), USA (Arizona, New Mexico, Kentucky, Texas, Pennsylvania, Colorado, West Virginia, Florida, Alabama, Utah), San Salvador (Bahamas), South Africa (Transvall, Karroo, Sterkfontain, Cape region), China (Yunan, Guilin, Guangzou), Switzerland (Innerbergli, Beatenberg, Interlaken, Swiss Jura), Mallorca, Lanzarote, and Tenerife Islands (Spain), Slovenia (classical karst region), Italy (Frasassi and Monte Cucco caves), and on various routes in Poland, Austria, France, Belgium, Island, Peru, Brazil, Guatemala, Dominican Republic, Mexico, Tahiti, Iceland, and Greenland.

Editor-in-Chief: *International Journal of Speleology* (ISI ranked)

(<http://scholarcommons.usf.edu/ijs/>)

Studia UBB Geologia <http://scholarcommons.usf.edu/geologia/>

Member in the Editorial Board: *Scientific Reports, Carbonates and Evaporites*, and *Acta Carsologica*

Reviewer for *Nature, Science, Geology, Sci. Rep., Quat. Sci. Rev., Quat. Int., Holocene, Geochimica et Cosmochimica Acta, Mineral. Mag., Amer. Mineral., Can. Mineral., Cave and Karst Science, Acta Carsologica, Karstologia, Quat. Res., J. Sed. Petrol., Earth Planet Sci. Lett., Int. J. Climatol., Int. J. Speleol., Spectroscopy Letters, Natl. Geogr., Sedimentology, Chem. Geol., Sed. Geol., Geomorphology, etc.*

Guest Editor: *Quaternary International* (2008), *Isotopes in Environmental and Health Studies* (2008), *International Journal of Speleology* (2011)

Past President and Vice-President of the **European Society of Isotope Research**

President of the *Cave Minerals Commission within UIS* (since 2006)

Guest Professor at Department of Quaternary Geology, Lund University (1999 and 2002) – taught PhD course *Paleoclimate from cave deposits*.

I organized 6 international meetings on Karst, Quaternary Geology, Isotope Geology, and Mineralogy at Cluj and Baile Herculane, Romania in 2000, 2003, 2006, and 2007, and a NSF Workshop in Palma de Mallorca in 2012, respectively.

Awards:

- 1998 **Certificate of Excellence** (Filer, Idaho): best scientific paper on show caves;
- 2003 **Diploma of Scientific Excellence** (received from the President of the Babes-Bolyai University, Cluj, Romania);
- 2004 **Romanian Academy “Emil Racovita” Award** for the best scientific book of the year;
- 2004 **Best Scientific Book of the year** (presented by the President of the Babes-Bolyai University, Cluj, Romania);
- 2010 **Best Scientific ISI Paper of the year** (presented by the Romanian National Research Council).
- 2023 USF World Global Excellence Award

2025

William B. and Elizabeth L. White Medal for Excellence in Karst Studies
(presented by the Karst Waters Institute)

List of published papers

(underlined: student advised; * corresponding author)

Books:

1. Ponta, G.M.L, **Onac, B.P.** (Eds.) 2019: *Cave and karst systems of Romania*. Springer International, Cham, 544 p.
2. Ginés, A., Ginés, J., Gómez-Pujol, L., **Onac, B.P.**, Fornós, J.J. (Eds.) 2012: *Mallorca: a Mediterranean benchmark for Quaternary studies*. Monografies de la Societat d'Història Natural de les Balears, 18, 220 p.
3. **Onac, B.P.**, Racoviță, G., Brad, T. (Eds.) 2010: *Atlasul pesterilor din Muntii Apuseni. Muntii Bihor - 1. Bazinul Ariesului Mare*. University of South Florida Karst Studies Series, 2, 90 p.
4. **Onac, B.P.**, Sumrall, J., Myroie, J. E., Kearns, J. 2008: *Cave minerals of San Salvador Island, Bahamas*. University of South Florida Karst Studies Series, 1, 70 p.
5. **Onac, B.P.**, Persoiu, A., Racovita, G., Tamas, T., Viehmann, I. 2007: *Scarisoara*. Studia, Cluj, 84 p.
6. **Onac, B.P.** 2004: *Introduction in isotopic geochronology* Ed. Presa Universitara Clujeana, Cluj-Napoca, 176 p. (in Romanian).
7. Racovita, G., Moldovan, O., **Onac, B.P.** (Eds.) *Karst monography of the Padurea Craiului Mountains*. Ed. Presa Universitara Clujeana, Cluj-Napoca, 264 p.
8. Racovita, G., **Onac, B.P.** 2002: *Pestera Ghetarul de la Scarisoara. Studiu monografic* Ed. Presa Universitara Clujeana, Cluj-Napoca, 156 p.
9. **Onac, B.P.** 2001: *Principles of Crystallography* Ed. Presa Universitara Clujeana, Cluj-Napoca, 340 p. (in Romanian)
10. **Onac, B.P.** 2000: *Geology of karst terrains* Editura Didactica si Pedagogica, Bucuresti, 400 p. (in Romanian with extended English chapter summaries)
11. Racovita, G., **Onac, B.P.** 2000: *Scarisoara Glacier Cave. Monographic study*. Ed. Carpatica, Cluj-Napoca, 140 p.
12. **Onac, B.P.** 1998: *Speleothems from caves in Padurea Craiului Mountains*. Ed. Academiei Române, Bucuresti, 176 p. (in Romanian with English abstract)

Proceedings edited:

1. **Onac, B.P.**, Fornós, J.J. 2012: Proceedings of the NSF Workshop on Sea level changes into MIS 5e: from observations to predictions. *Studia UBB Geologia*, Special Issue, 65 p.
2. **Onac, B.P.**, Tamas, T., Constantin, S., Persoiu, A. (Eds.) 2006: *Archives of Climate Change in Karst*. Karst Waters Institute Spec. Publ., 10, Charles Town, WV, 246 p.
3. **Onac, B.P.**, Tamas, T. (Eds.) 2000: *Karst Studies and Problems: 2000 and Beyond*. Proceedings of the joint meeting of Friends of Karst, Theoretical and Applied Karstology and IGCP 448 (Cluj, 14-16 iulie 2000). Ed. Presa Universitara Clujeana, Cluj, 196 p.
4. **Onac, B.P.** (Ed.) 2000: *Achievements and perspectives in studies concerning the Quaternary of Romania*. Ed. Presa Universitara Clujeana, Cluj, 64 p.

Chapters in books

1. **Onac, B.P.**, van Beynen, P. 2021: *Caves & Karst*. In: Encyclopedia of Geology (2nd ed.), Alderton, D. & Elias, S. (eds.), vol. 6, Academic Press, London, p. 495-509 <https://doi.org/10.1016/B978-0-12-409548-9.12437-6>.

2. **Onac, B.P., Veres, D.S.,** Stringer, C. 2021: *Hominim footprints in caves from Romanian Carpathians*. In: Reading Prehistoric human tracks (Pastoors, A., Ed.). Springer, Cham, p. 201-210. https://doi.org/10.1007/978-3-030-60406-6_12
3. **Onac, B.P.** 2019: *Minerals in caves*. In: *Encyclopedia of Caves* (3rd ed., White, W.B., Culver, D.C., Pipan, T., Eds.), Academic Press, New York, 699-709.
4. **Persoiu, A., Onac, B.P.** 2019: *Ice in Caves*. In: *Encyclopedia of Caves* (3rd ed., White, W.B., Culver, D.C., Pipan, T., Eds.), Academic Press, New York, 553-558.
5. Zak, K., **Onac, B.P.,** Kadebskaya, O.I., Filippi, M., Dublyansky, Y., Luetscher, M. 2018: Cryogenic mineral formation in caves. In: *Ice caves* (Persoiu, A. & Lauritzen, S.E., Eds.). Elsevier, Amsterdam, pp. 123-162; <https://doi.org/10.1016/B978-0-12-811739-2.00035-8>
6. **Onac, B.P., Dragusin, V.** 2017: Hypogene caves of Romania. In: *Hypogene Karst Regions and Caves of the World* (Klimchouk et al., Eds.), Springer International Publishing, Berlin, p. 257-265.
7. Ginés, J., Fornós, J.J., Gràcia, F., Merino, A., **Onac, B.P.,** Ginés, A. 2017: Hypogene imprints in coastal karst caves from Mallorca Island (Western Mediterranean): morphological features and speleogenetic approach. In: *Hypogene Karst Regions and Caves of the World* (Klimchouk et al., Eds.), Springer International Publishing, Berlin, p. 99-112.
8. Mitrofan, H., Marin, C., Povara, I., **Onac, B.P.** 2016: Hercules and Diana hypogene caves (Herculane Spa, Romania): dissimilar chemical evolutions documented by their present-day thermal water discharge. In: Proceedings of DeepKarst 2016: Origins, resources, and management of hypogene karst (Chavez, T., Reeling P., Eds.), NCKRI Symposium 6, p. 145-150.
9. van Hengstum, P., Richards, D., **Onac, B.P.,** Dorale, J.A. 2015: *Coastal Caves and Sinkholes* In: *Handbook for Sea-level Research* (Shennan, I., Long, A., Horton, B., Eds.), John Wiley & Sons, Oxford, p. 83-103.
10. **Onac, B.P.** 2012: *Minerals*. In: *Encyclopedia of Caves* (2nd ed., Culver, D.C. & White, W.B., Eds.), Academic Press, New York, 499-508.
11. **Onac, B.P.,** Ginés, A., Ginés, J., Fornós, J.J., Dorale, J.A. 2012: Late Quaternary sea-level history: a speleothem perspective. In: *Mallorca: a Mediterranean benchmark for Quaternary studies* (Ginés et al., Eds.), Monografies de la Societat d'Història Natural de les Balears, 18: 147-162.
12. **Persoiu, A., Onac, B.P.** 2012: *Ice in Caves*. In: *Encyclopedia of Caves* (2nd ed., Culver, D.C. & White, W.B., Eds.), Academic Press, New York, 399-404.
13. Ginés, J., Ginés, A., Fornós, J.J., Tuccimei, P., **Onac, B.P.,** Gràcia, F. 2012: Phreatic overgrowths on speleothems (POS) from Mallorca: updating forty years of research. In: *Mallorca: a Mediterranean benchmark for Quaternary studies* (Ginés et al., Eds.), Monografies de la Societat d'Història Natural de les Balears, 18: 111-146.
14. **Onac, B.P., Veres, D.,** Tamas, T., C.S. Montana Baia-Mare, Todoran, V. 2010: The hydrogeology of Cuciulat-Purcaret-Boiu Mare karst area, northern part of the Somes Plateau, Romania. In *Karst Hydrogeology of Romania* (Oraseanu, I. & Iurkiewicz, A., Eds.), Belvedere, Oradea, 329-341.
15. 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.), Belvedere, Oradea, 325-328.
16. **Onac, B.P.** 2007: *Caves of Romania. A worthy treasure* (Seliscan, D., Ed.). SING, 3-23.
17. **Onac, B.P.** 2005: *Minerals*. In: *Encyclopedia of Caves* (Culver, D.C. & White, W.B., Eds.), Academic Press, New York, p. 371-378.

18. **Onac, B.P.**, Constantin, S. 2003: *Europe, Balkans and Carpathians*. In: *Encyclopedia of Caves and Karst Science* (Gunn, J., Ed.), Fitzroy Dearborn, New York, p. 328-331.
19. Dorale, J.E., Edwards, R.L., **Onac, B.P.** 2002: Stable isotopes as environmental indicators in speleothems. In: *Karst Processes and the Carbon Cycle. Final Report of IGCP 379* (Yuan, D. & Zhang, C., Eds.), Geological Publishing House, Beijing, 107-120.
20. **Onac, B.P.** 1997: *Crystallography of speleothems*. In *Cave Minerals of the World* (ed. 2, Hill, C.A. & Forti, P., Eds.) NSS, Huntsville, Alabama, 230-236.

Articles in peer-review (ISI) journals

(underlined: student advised; * corresponding author)

1. **Onac, B.P.**, Polyak, V.J., Mitrovica, J.X., Ginés, J., Gràcia, F., Fornós, J.J., Ginés, A., Asmerom, Y. 2024: New evidence for human arrival in Mallorca prior to 6000 years ago. *Communication Earth and Environment*, **5**: 457
2. Palma, V., De la Rosa, J.M., **Onac, B.P.**, Sauro, F., Martínez-Frías, J., Caldeira, A.T., González-Pérez, J.A., Jimenez-Morillo, N.T., Miller, A.Z. 2024: Decoding organic compounds in lava tube sulfates to understand potential biomarkers in the Martian subsurface. *Communication Earth and Environment*, **5**: 530
3. Forray, F.L., Dumitru, O.A., Atlas, Z.D., **Onac, B.P.*** 2024: Past anthropogenic impacts revealed by trace elements in cave guano. *Chemosphere*, **360**: 142447.
4. Palma, V., González-Piementel, J.L., Jimenez-Morillo, N.T., Sauro, F., Gutiérrez-Patricio, S., De la Rosa, J.M., Tomasi, I., Massironi, M., **Onac, B.P.**, Tiago, I., González-Pérez, J.A., Laiz, L., Caldeira, A.T., Cubero, B., Miller, A.: 2024. Connecting molecular biomarkers, mineralogical composition, and microbial diversity from Mars analog lava tubes. *Science of the Total Environment*, **913**: 169583.
5. Loncar, N., Faivre, S., Miklavic, B., **Onac, B.P.**, Polyak, V.J., Asmerom, Y.: Sea-level stability during the 3.2 ka event inferred from phreatic overgrowth on speleothems on eastern Adriatic coast of Croatia. *Quaternary Research*, 1-12, doi:10.1017/qua.2023.65
6. Drăgușin, V., Ersek, V., Fleitmann, D., Ionita, M., **Onac, B.P.***: Winter hydroclimate contrasts between southern and northern Europe at ~5.2 ka. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **632**: 111863.
7. **Onac, B.P.**, Cleary, D.M., Dumitru, O.A., Polyak, V.J., Povara, I., Wynn, J.G., Asmerom, Y. 2023: Bladed stalactites: a new cryogenic speleothem subtype. *International Journal of Speleology*, **52**(1): 1-8.
8. Cleary, M.D., Stepchinski, L., Bertetti, F.P., Nunu, R., Green, R.T., **Onac, B.P.***. 2022: Guano stable isotopic evidence of Anthropocene climate change influence on aridity and vegetation dynamics. *Ecological Indicators*, **145**: 109710.
9. Wynne, J.J., Titus, T.N., Agha-Mohammadi, A-a., Azua Bustos, A., Boston, P.J. et al. (**Onac, B.P.**) 2022: Fundamental science and engineering questions in planetary cave exploration. *Journal of Geophysical Research, Planets*, **127**: e2022JE007194.
10. Ferreira, R.L., Bernard, E., **Onac, B.P.** et al. 2022. Brazilian cave heritage under siege. *Science*, **375**: 1238-1239 (Letter).
11. **Onac, B.P.**, Mitrovica, J.X., Gines, J., Asmerom, Y., Polyak, V.J., Tuccimei, P., Fornos, J.J., Hoggard, M.J., Coulson, S., Ginés, A., Soligo, M., Villa, I.M. 2022:

- Exceptionally stable pre-industrial sea level inferred from the western Mediterranean Sea. *Science Advances*, **8**: eabm6185 ([cover article](#)).
12. Polyak, V.J., Provencio, P., Asmerom, Y., Davis, D.G., **Onac, B.P.**, Palmer, A.N., Palmer, M.V. 2022: Timing of sulfuric acid speleogenesis (SAS) as an indicator of canyon incision rates of the Shoshone and Bighorn rivers, Wyoming, USA. *Geomorphology*, **410**: 108281.
 13. Dumitru, O.A., Polyak, V.J., Asmerom, Y., **Onac, B.P.** 2021: Last interglacial (sensu lato, ~130 to 75 ka) sea level history from cave deposits: a global standardized database. *Earth System Science Data*, **13**: 2077-2094.
 14. Titus, T.N., Wynne, J.J., Malaska, M.J. **Onac, B.P.** et al. 2021. A roadmap for planetary caves science and exploration. *Nature Astronomy*, **5**: 524-525 (Correspondence).
 15. Dumitru, O.A., Austermann, J., Polyak, V.J., Fornós, J.J., Asmerom, Y., Ginés, J., Ginés, A., **Onac, B.P.*** 2021: Sea-level stands from Western Mediterranean over the past 6.5 million years. *Scientific Reports*, **11**: 261; <https://doi.org/10.1038/s41598-020-80025-6>.
 16. Lucia, G., Polyak, V.J., Ginés, J., Fornós, J.J., Ginés, A., Asmerom, Y., **Onac, B.P.*** 2021: Chronology of middle Pleistocene coastal karst evolution and relative sea-level changes in Mallorca. *Journal of Coastal Research*, **37 (2)**: 408-420.
 17. Smith, M.E., Wynn, J.G., Scharping, R.J., Moore, E.W., Garey, J.R., **Onac, B.P.*** 2021: Source of saline groundwater on tidally influenced blue holes from San Salvador Island, Bahamas. *Hydrogeology Journal*, **29**: 429-441, <https://doi.org/10.1007/s10040-020-02266-z>
 18. **Onac, B.P.**, Baumann, S.M., Parmenter, D.S., Weaver, E., Sava, T.B. 2020: Late Holocene droughts and cave ice harvesting by Ancestral Puebloans. *Scientific Reports*, **10**: 20131, <https://doi.org/10.1038/s41598-020-76988-1>
 19. Cleary, D.M., **Onac, B.P.** 2020: Using isotopic ratios in cave guano to assess past environmental changes. *Geological Society, London, Special Publication*, **507**; <https://doi.org/10.1144/SP507-2020-13>
 20. Polyak, V.J., Dillon, J.R., Asmerom, Y., **Onac, B.P.** 2020: Chronology of young basalt flows from lava tube gypsum U-series ages. *Quaternary Geochronology*, **59**: 101083; <https://doi.org/10.1016/j.quageo.2020.101083>.
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