

Lista de lucrări

Cărți publicate

1. **G. Cristea**, S. M. Cuna, *Efecte izotopice în ciclul global al carbonului*, ISBN 978-606-690-514-5, Editura Napoca Star, Cluj Napoca (2016)
2. E. Hauer, O. Cozar, S. Cuna, **G. Bălaș**, C. Nechita, *Izotopii carbonului și încălzirea globala*, ISBN 978-973-647-541-2, Editura Napoca Star, Cluj Napoca (2007)

Capitole de carte

1. C. Voica, **G. Cristea**, I. Feher, Book chapter – “**Multielement and Isotopic Characterization of Bottled Mineral Waters on the Romanian Market**” in the book entitled „Bottled and package Water”, 1st edition, volume 4: The Science of Beverages, Edited by A. Grumezescu and A. M. Holban, (2019) Whoodhead Publishing, Elsevier, Paperback ISBN: 9780128152720
2. D.A. Magdas, **G. Cristea**, Book chapter – „**Light isotopes**” in the book entitled „Food Authentication: Management, Analysis, and Regulation”, Edited by Constantinos A. Georgiou and Georgios P. Danezis, (2017) Chichester, UK; Hoboken, NJ: John Wiley & Sons Ltd., pp. 118-130, ISBN 9781118810262
3. D.A. Magdas, **G. Cristea**, I. Feher, O. Marincas, Book chapter – “**Isotopes, traceability and omics**” – în evaluare, editura Elsevier (2019)

Articole publicate

I. Ca autor principal (prim autor sau autor de corespondență)

1. **G. Cristea**, C. Voica, I. Feher, S. Radu, D.A. Magdas. 2019. Isotopic and elemental characterization of cider commercialized on Romanian market. *Analytical Letters* 52(1): 139-149, DOI: 10.1080/00032719.2018.1434189
2. A. Dehelean, **G. Cristea**, Z. Balazs, D. A. Magdas, I. Feher, C. Voica, R. Puscas. 2019. Macro - and Microelemental Distribution in Phaseolus Vulgaris L. Tissue Irrigated with Water with Varying Isotopic Compositions. *Analytical Letters* 52(1): 111-126, DOI 10.1080/00032719.2018.1431655
3. **G. Cristea**, D. A. Magdas, C. Voica, I. Feher. 2017. Stable Isotope Fingerprinting in Pharmaceuticals Authentication, *Analytical Letters* 50(17): 2691-2698, DOI: 10.1080/00032719.2016.1265534.
4. **G. Cristea**, I. Feher, D.A. Magdas, C. Voica, R. Puscas. 2017. Characterization of Vegetables by Stable Isotopic and Elemental Signatures, *Analytical Letters* 50(17): 2677-2690, DOI: 10.1080/00032719.2016.1263312.

5. **G. Cristea**, S.M. Cuna, S. Farcas, I. Tantau, E. Dordai, D.A. Magdas. 2014. Carbon isotope composition as indicator for climatic changes during the middle and late Holocene in a peat bog from Maramures mountains (Romania), *The Holocene* 24(1): 15-23
DOI: 10.1177/0959683613512166
6. R. Pușcaș, D. A. Magdas, I. Lung, **G. Cristea**, M. L. Soran, I. Feher, A. Dehelean. 2016. Isotopic Composition Influence of Irrigation Water on Some Aromatic Plants, *Studia UBB Chemia*, LXI (4): 31 – 42.
7. D. A. Magdas, **G. Cristea**, R. Puscas, F. Tusa. 2014. The Use of Isotope Ratios In Commercial Fruit Juices Authentication, *Rom. Journ. Phys.* 59(3–4): 355–359.
8. D.A. Magdas, **G. Cristea**, D.V. Codrea, A. Bot, R. Puscas, S. Radu, V. Mirel, M. Mihaiu. 2013. Measurements of stable isotope ratios in milk samples from a farm placed in the mountains of Transylvania, *American Institute of Physics - AIP Conference Proceedings* 1565: 304-307; doi: 10.1063/1.4833750.
9. D.A. Magdas, **G. Cristea**, A. Bot, V. Mirel. 2013. The use of carbon stable isotope ratios in drugs characterization, *American Institute of Physics - AIP Conference Proceedings* 1565: 282-284; doi: 10.1063/1.4833745.
10. A. Butiuc-Keul, L. Momeu, C. Craciunas, C. Dobrota, S. Cuna, **G. Bălaș**. 2012. Physico-chemical and biological studies on water from Aries River (Romania), *Journal of Environmental Management* 95, supplement: S3-S8; DOI: 10.1016/j.jenvman.2011.04.017
11. **G. Cristea**, D.A. Magdas, S. Cuna, E. Dordai, V. Mirel. 2012. The Study of the Local Sources of CO₂ Using Stables Isotopes, *American Institute of Physics - AIP Conf. Proc* 1425: 165-167, DOI 10.1063/1.3681992.
12. **G. Cristea**, D.A. Magdas, V. Mirel. 2012. The Use of Isotope Ratios for Vegetable Oils Authentication, *American Institute of Physics – AIP Conf. Proc* 1425: 168-170, DOI 10.1063/1.3681993

II. Ca și co-autor

1. D. A. Magdas, I. Feher, **G. Cristea**, C. Voica, A. Tabaran, M. Mihaiu, D. V. Cordea, V.A. Balteanu, S.D. Dan. 2019. Geographical origin and species differentiation of Transylvanian cheese. Comparative study of isotopic and elemental profiling vs. DNA results. *Food Chemistry* 277: 307-313. DOI: 10.1016/j.foodchem.2018.10.103
2. D. A. Magdas, I. Feher, A. Dehelean, **G. Cristea**, T. M. Magdas, R. Puscas, O. Marincas. 2018. Isotopic and elemental markers for geographical origin and organically grown carrots discrimination. *Food Chemistry* 267: 231-239. DOI: 10.1016/j.foodchem.2017.10.048
3. R. Puscas, **G. Cristea**, S. Radu. 2018. Stable Isotope Determination in Edible Mushrooms from the Spontaneous Flora of Transylvania. *Analytical Letters* 52(1): 102-110, DOI: 10.1080/00032719.2017.1376218

4. A. Dehelean, E.D. Kovacs, D.A. Magdas, **G. Cristea**, C. Voica, I. Feher, M.H. Kovacs, O. Marincas, Z. Zhang, P. Li, Q. Zang. 2018. Infant Supplement Quality Evaluation by Inductively Coupled Plasma–Mass Spectrometry, Gas Chromatography, and Isotope Ratio Mass Spectrometry, *Analytical Letters*, DOI: 10.1080/00032719.2017.1410165 – *in press*
5. I. Feher, D. A. Magdas, A. Dehelean, **G. Cristea**, C. Voica. 2017. Application of light stable isotope ratios and elemental profile in the organic vegetables characterization, *Romanian Journal of Physics* 62: 1-2.
6. D. A. Magdas, A. Dehelean, I. Feher, **G. Cristea**, R. Puscas, C. Voica, S. D. Dan, D.V. Cordea. 2016. Discrimination markers for geographical and species origin of raw milk within Romania, *Internat. Dairy Journal* 61: 135-141, doi: 10.1016/j.idairyj.2016.06.003.
7. Z. Balazs, D. Ristoiu, D. A. Magdas, **G. Cristea**, A. Dehelean, C. Voica, R. Puscas, A. Pirnau, I. Feher, S. Radu, M. Vadan. 2016. Determination of Isotopic Ratios and Metal Concentrations in *Nicotiana tabacum* (Tobacco), *Analytical Letters* 49(3): 364-377.
8. C. Voica, I. Feher, A.M. Iordache, **G. Cristea**, D.A.Magdas, V. Mirel. 2016. Multielemental Analysis of Coffee by Inductively Coupled Plasma - Mass Spectrometry, *Analytical Letters* 49(16): 2627-2643, DOI: 10.1080/00032719.2015.1116003
9. G. R. Schmutzer, A. Dehelean, D. A. Magdas, **G. Cristea**, C. Voica. 2016. Determination of Stable Isotopes, Minerals, and Volatile Organic Compounds in Romanian Orange Juice. *Analytical Letters* 49(16): 2644-2658, DOI: 10.1080/00032719.2015.1130713
10. V. Avram, D.A. Magdas, C. Voica, **G. Cristea**, C. Cimpoi, A. Hosu, C. Marutoiu. 2014. Isotopic Oxygen Ratios and Trace Metals Determination in Some Romanian Commercial Wines, *Analytical Letters* 47(4): 641-653.
11. A. Dehelean, D.A. Magdas, **G. Cristea**. 2013. Investigation of Trace Metals Content and Carbon Isotopic Composition on the Soil-Leaf-Fruit Chain from Some Transylvanian Areas, *Analytical Letters* 46(3): 98-507, DOI:10.1080/00032719.2012.721104
12. D.A. Magdas, Z. Moldovan, **G. Cristea**. 2012. The Use of Stable Isotopes in Quantitative Determinations of Exogenous Water in Wines, *American Institute of Physics -AIP Conf. Proc* 1425: 175-177, DOI 10.1063/1.3681995
13. A. Dehelean. D.A. Magdas, **G. Cristea**. 2012. The carbon isotopes ratio and trace metals content determinations in some Transylvanian fruit juices, *American Institute of Physics – AIP Conf. Proc* 1425: 171-174, DOI 10.1063/1.3681994
14. D. A. Magdas, A. Dehelean, R. Puscas, **G. Cristea**, F. Tusa et al. 2012. The quality control of fruit juices by using the stable isotope ratios and trace metal elements concentrations, *American Institute of Physics – AIP Conf. Proc* 1425: 178-181, DOI 10.1063/1.3681996
15. D.A. Magdas, S. Cuna, **G. Cristea**, R.E. Ionete, D. Costinel. 2012. Stable isotopes determination in some Romanian wines, *Isotopes in Environmental and Health Studies* 48(2): 345-353, DOI: 10.1080/10256016.2012.661731
16. N.F. Sima, R.M. Sima, **G. Cristea**, S. Cuna, V. Mihai. 2011. Evaluation of the Use of Carbon Isotope Discrimination as a Selection Tool of Perennial Fodder Species for Temporary Pastures, *Notulae Botanicae Horti Agrobotanici* 39(2): 34-41.

17. E. Dordai, D.A. Magdas, S. Cuna, **G. Cristea**, I. Futo, G. Vodila, V. Mirel. 2011. Detection of some Romanian honey types adulteration using stable isotope methodology, *Studia UBB Chemia*, 56(3): 157-163.
18. D. Axente, C. Marcu, A. Muresan, M. Kaucsar, I. Misan, G. Popeneciu, N. Gligan, **G. Cristea**. 2010. Experimental plant for simultaneous production of (14)N and (15)N by (15)N/(14)N exchange in NO, NO(2)-HNO(3) system under pressure, *Isotopes in Environmental and Health Studies* 46(2): 242-248, DOI: 10.1080/10256016.2010.488800
19. D. A. Magdas, S. Cuna, P. Berdea, **G. Balas**, C. Cuna, E. Szilagyi, M. Falub. 2009. Study of mineral water resources from Eastern Carpathians area using stable isotopes, *Rapid Communication in Mass Spectrometry* 23(16): 2568-2572, DOI: 10.1002/rcm.4126
20. W. Plastino, I. Chereji, S. Cuna, L. Kaihola, N. Lupsa, **G. Balas**, V. Mirel, P. Berdea, C. Baci. 2007. Tritium electrolytic enrichment of environmental waters and liquid scintillation analysis by Quantulus at the Gran Sasso National Laboratory (Italy), *Radiation Measurements* 42: 68-73.
21. S. Cuna, **G. Balas**, E. Hauer, 2007. Effects of natural environmental factors on $\delta^{13}\text{C}$ of lichens, *Isot. Environm. Health Stud.* 43(2): 95-104.
22. P. Berdea, S. Cuna, C. Cuna, **G. Balas**. 2006. On the correction of the memory effect in isotopic analysis, *Journal of Mass Spectrometry* 41(12): 1598-1599, doi.org/10.1002/jms.1101
23. P. Berdea, S. Cuna, **G. Bălaș**, E. Hauer. 2005. Origin of the mineral waters from Someseni, Transylvanian Basin, Romania, *Geological Quarterly* 49(2): 145-150.

III. Lucrari BDI

1. **G. Cristea**, I. Haiduc, S. Beldean Galea, S. Cuna. 2009. The variation of CH₄ in the urban area from Cluj County, *Studia Universitatis Babes Bolyai, Geographia*, LIV(1): 91-94 – lucrare Bdi indexata Index Copernicus EBSCO, GeoRef
2. S. Cuna, C. Baci, C. Cuna, P. Berdea, **G. Bălaș** - *Isotopic approach to the mineral waters dynamics in the Eastern Carpathians area*. Environment & Progress, ISSN 158-6733, cod CNCISIS 697/2006 vol.9, pp 149-153, 2007
3. S. Cuna, C. Cuna, **G. Balas**, O. Cozar, *Using stable Isotopes to Identify Geographical Origin of Wines*, *Studia Universitatis Babes-Bolyai. Physica*, vol.LI, nr. 2, pp. 45-49, 2006
4. W. Plastino, I. Chereji, S. Cuna, L. Kaihola, N. Lupsa, **G. Bălaș**, Valentin Mirel, Petre Berdea, Calin Baci, *Environmental Radioactivity Monitoring for Earth Sciences (ERMES)*, Annual Report, Laboratori Nazionali del Gran Sasso, INFN, Italy, pp.175-179, July, 2005
5. P. Berdea, S. Cuna, O. Cozar, **G. Muresan**. 2005. Application of stable isotopes (¹⁸O, D) to study the provenience of mineral waters from some locations of Romania, *Rom. J. Physics*, 50(7-8): 685-690.
6. S. Cuna, **G. Bălaș**, K. Bartok, *Improving the use of lichens as biomonitors of environmental change utilizing stable isotope abundances*, *Contributii Botanice XL*, pp. 187-192, 2005

7. S. Cuna, **G. Bălaș**, *Some results proving the significance of the carbon isotope discrimination by the plants*, Studia Universitatis Babeș-Bolyai. Physica, L, 3, pp.196-202, 2005
8. S. Cuna, N. Palibroda, **G. Bălaș**, P. Berdea, *Preliminary results for the control of wines*, Studia Universitatis Babeș-Bolyai. Physica, L, 4a, pp.390-394, 2005
9. P. Berdea, S. Cuna, C. Cuna, **G. Bălaș**, *Correction of memory in isotopic analyses*, Studia Universitatis Babeș-Bolyai. Physica, L, 4a, pp. 369-373, 2005
10. S. Cuna, **G. Bălaș**, K. Bartok, C. Petees, *Characterization of Lichens Using Carbon Isotope Discrimination Techniques*, Contribuții Botanice, vol. XXXIX, pp. 51-58, 2004
11. S. Cuna, **G. Mureșan**, *Isotopic composition of plant carbon correlates with water-use efficiency*, Studia Universitatis Babeș-Bolyai, Physica, vol.49, nr. 1, pg. 35-39, 2004
12. S. Cuna, C. Cuna, **G. Mureșan**, *Relationship between carbon isotope discrimination and intercellular carbon dioxide concentration in leaves*, Timișoara Medical Journal, vol.53, Suppl. No.2, pp.52-54, 2003
13. I. Chereji, S. Cuna, N. Lupșa, **G. Mureșan**, V. Mirel, P. Berdea, C. Baci, *Tritium enrichment of environmental waters by electrolysis*, Studia Universitatis Babeș-Bolyai, Physica, Special Issue, Vol.2, pp.400-403,2003
14. S. Cuna, **G. Mureșan**, O. Cozar, N. Lupșa, V. Mirel, *Photosynthetic fractionation of carbon isotopes*, Studia Universitatis Babeș-Bolyai, Physica, Special Issue, Vol.2, pp.397-399, 2003
15. S. Cuna, **G. Mureșan**, O. Cozar, *On the method for measurement of carbon composition in organic matter of the plant*, The Annals of Oradea University. Physica, vol. 13, pp. 55-64, 2003
16. S. Cuna, O. Cozar, **G. Mureșan**, *A method for sulfur isotopes determination from mineral sulphurous waters*, Studia Universitatis Babeș-Bolyai. Physica, Vol.2, pp, 2003
17. S. Cuna, C.Cuna, **G. Bălaș**, F. Gaftoi, *The assessment of the quality of the food by ^{13}C isotope ratio mass spectrometry*, Studia Universitatis Babeș-Bolyai. Physica, Special Issue, vol.1, pp.245-247, 2002
18. S. Cuna, O. Cozar, **G. Bălaș**, *Carbon-13 concentrations in human breath measured by mass spectrometry*, Studia Universitatis Babeș-Bolyai, Physica, vol.XLVI. pp.13-21, 2001