



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)

COSTINEL Diana

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Telephone(s)

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diana.costinel@icsi.ro

Nationality

Romanian

Date of birth

January 26, 1970

Gender

Female

Desired employment / Occupational field

Academic (research)

Work experience

Isotope Ratio Mass Spectrometry IRMS and gas chromatography GC/MS;

Dates

2016 - PRESENT

Occupation or position held

*Scientific Researcher 2nd degree (MENCS order no. 4126/15.06.2016),
PhD Physicist (PhD in Atomic and Molecular Physics, Mass Spectrometry
Specialization, MEC order no. 4542/28.07.2010 (No. 230/04.11.10, H 3030
series);*
Researcher unique identifier(s) (such as ORCID, Research ID, etc.):
orcid.org/0000-0003-1010-0833
Scopus Author ID: B-4427-2017

Main activities and responsibilities

Leader of the Physico – Chemical, Environmental and Food Quality Analysis
Laboratory (LAFMCA02), *Responsible with Isotope Ratio Mass Spectrometry
(IRMS) Analysis, with applications in Environmental and Food Quality Area;*

Name and address of employer

National R&D Institute of Cryogenics and Isotopic Technologies - ICSI Rm. Valcea,
4th Uzinei Street, cod 240050, Rm. Valcea, Valcea, ROMANIA

Type of business or sector

Research and Development Department - ICSI Analytics Group

Dates	April 2013-present
Occupation or position held	<i>Technical Expert for Romanian Accreditation Association - RENAR regarding the measurement of stable isotopes (as technical expert in IRMS measurements and as internal auditor); participation at assessment activities with assessment team from Belgrad-Serbia;</i>
Main activities and responsibilities	<i>Certificate of graduation as internal auditors (No 675-F-LI/11.12.2015) SR EN ISO/CEI 17025 :2005 and SR EN ISO 19011: 2011”</i>
Name and address of employer	<i>Romanian Accreditation Association – RENAR NATIONAL ACCREDITATION BODY, Bucharest Calea Vitan nr. 242, sector 3, cod poștal 031301, E-mail: renar@renar.ro.</i>
Dates	June 2015 - present
Occupation or position held	<i>Collaboration with Laboratory Association from Romania - ROLAB Bucharest, to</i>
Main activities and responsibilities	<i>organize the Proficiency Testing Scheme for wine matrix;</i>
Dates	01.09.2004-25.01.2010
Occupation or position held	<i>Scientific Researcher 3rd degree, PhD Student Physicist</i>
Main activities and responsibilities	<i>Leader of the Physical – Chemical, Environmental and Food Quality Analysis Laboratory, Responsible with Isotope Ratio Mass Spectrometry (IRMS) Analysis and GC-MS analysis, with applications in Environmental and Food Quality Area (development of specific procedures for the analysis of volatile organic compounds and semi-volatile from different samples using gas chromatographic systems coupled with quadrupole ion trap mass spectrometry; development the IRMS specific procedures from different matrices);</i>
Name and address of employer	<i>National R&D Institute of Cryogenics and Isotopic Technologies - ICSI Rm. Valcea, 4th Uzinei Street, cod 240050, Rm. Valcea, Valcea, ROMANIA</i>
Type of business or sector	<i>Research and Development Department</i>
Dates	01.07.2001-31.08.2004
Occupation or position held	<i>Scientific Researcher, PhD Student Physicist</i>
Main activities and responsibilities	<i>Responsible with Mass Spectrometry Analysis of pure gases, with applications in Environmental Area</i>
Name and address of employer	<i>National R&D Institute of Cryogenics and Isotopic Technologies - ICSI Rm. Valcea, 4th Uzinei Street, cod 240050, Rm. Valcea, Valcea, ROMANIA</i>
Type of business or sector	<i>Research and Development Department</i>
Dates	SEPT.1999 - JULY 2001
Occupation or position held	<i>Professor - physics and informatics</i>
Main activities and responsibilities	<i>Physics-Informatics Department;</i>
Name and address of employer	<i>College “HENRI COANDA” Rm. Valcea, Valcea-ROMANIA</i>
Type of business or sector	<i>Education</i>
Dates	Sept 1993-Sept 1999
Occupation or position held	<i>Professor - physics and chemistry</i>
Main activities and responsibilities	<i>-Physics – Chemistry Department;</i>
Name and address of employer	<i>Middle school Blidari-Golesti, jud. Valcea</i>
Type of business or sector	<i>Education</i>

EDUCATION AND TRAINING

Dates

Title of qualification awarded

Principal subjects/occupational skills covered

Name and type of organisation providing education and training

Level in national or international classification; dates:

January 2010 - present

Doctor (PhD) Physicist, Scientific Researcher 3th degree

- experimental researcher, development of specific procedures at GC-MS and CF-IRMS, with applications in environmental and food quality analysis area using mass spectrometry IRMS and gas chromatography GC (isotopic ratios determination eg. $^{18}\text{O}/^{16}\text{O}$, $^2\text{H}/^1\text{H}$, $^{13}\text{C}/^{12}\text{C}$, $^{15}\text{N}/^{14}\text{N}$ by IRMS mass spectrometry from different matrices (water, fruits, vegetables, wine, vinegar, honey, etc.);
- interpretation of isotopic data for different applications (eg. hydrology, safety and food security);

1. RENAR (Romanian Accreditation Association, Bucharest) 2016-2005: participation at training regarding assessment activity (internal auditor), for the validation and certification methods;

2. Laboratory Association from Romania - ROLAB Bucharest June 2015 – present: participation at training to organize the Proficiency Testing Scheme;

3. Eurofins Nantes – France (The Bioanalytical Company): 23-26 April 2012: complete and validation of the SNIF-NMR installed of ICSI Rm.Valcea: validated for SNIF-NMR measurements on Wines, Alcoholic drinks, fruit juices and concentrates;

4. Eurofins Nantes – France (The Bioanalytical Company): 20-22 July 2010: training certificate IRMS applications, sample preparations, isotopic interpretation and data validation;

5. University Bucharest – Physics Faculty: title of PhD Physicist;

6. International participation (173 laboratories) at Water Isotope Interlaboratory Comparison WICO 2011 organised by IAEA Viena (International Atomic Energy Agency) in 15th June – 31th August 2011 with good results;

7. Starting to 2013: collaboration with Isotope Hydrology Section (Division of Physical and Chemical Sciences) at IAEA's Water Resources Programme for GNIP (Global Network of Isotopes in Precipitation) operations.

8. Starting to 2009, annually participation at Proficiency Testing Scheme for Food Analysis using Isotopic Techniques **FIT-PTS** organized at **JRC Ispra-Italy and Eurofins Scientific Nantes-France** with good results.

9. Starting with 2014, reviewer to *Analytical Letters*, *Environmental Processes Journal* and *Progress of Cryogenics and Isotopes Separation*.

10. Actively involved in participating to diverse workshops, conferences and seminars with have topics: environmental and health sciences, agriculture.

Level 6 – second stage of tertiary education

01.08.2001 – December 2009

Title of qualification awarded

PhD Student Physicist, Scientific Researcher

Principal subjects/occupational skills covered

- scientific researcher, working in a research team carrying-out in applications in environmental and food quality analysis area using mass spectrometry MS and gas chromatography GC (isotopic analysis of D/H, $\text{O}^{18}/\text{O}^{16}$, $\text{C}^{13}/\text{C}^{12}$ and $\text{N}^{15}/\text{N}^{14}$ from organic and inorganic samples at CF-IRMS device; contaminants detection with coupling GC/ MS device);

- specialist in isotope ratio mass spectrometry IRMS and mass spectrometry MS, gas chromatography GC, with applications in environmental and food quality analysis area;

-achievement analysis of pure gas with mass spectrometer GASLAB 300, FISIONS.

Name and type of organisation providing education and training

1.University Bucharest – Physics Faculty: October 2002-December 2009 - PHD in Physics (ordin 4542/28.07.10 MEC);

2.University from Pitesti – Material Science: October 2002-September 2004 - DIPLOMA for MASTER ROMANIAN-FRENCH IN MATERIAL SCIENCE(NR. 52758/10.12.2004);

3. ENSIACET Toulouse (France): 1st February-1st May 2004 - final stage for master romanian – french in Material Science, with the project “*Nouveaux Procédés de Dépôt Chimiques en Phase Vapeur de TiO₂ pour l’applications photo-catalytiques*”;

4. Thermo Scientific Bremen, Germany: 30th October÷ 03th November 2006 and 03th-07th March 2008 - professional training for applications on Continuous Flow Isotope Ratio Mass Spectrometer CF-IRMS Delta V Plus coupled with elemental analyzer Flash EA 1112 HT, preparation device GasBench II and gaz cromatograf GC C/TC;

5. RENAR: 2007-2011 participation at training for validation and certification method.

Level 6 – second stage of tertiary education

Level in national or international classification

Dates

01 October 1988 - 01 JULY 1993

Title of qualification awarded

Bachelor of Physics; License diploma, nr.1514/08.06.1994: physicist

Principal subjects/occupational skills covered

Physics, mathematics

Name and type of organisation providing education and training

University Bucharest – Physics Faculty, Magurele

Level in national or international classification

Level 5 – First stage of tertiary education: ISCED 5A

Dates

September 1984 - June 1988

Title of qualification awarded

Bachelorette in physics and mathematics

Principal subjects/occupational skills covered

Physics, mathematics

Name and type of organisation providing education and training

Mathematics and physics High School Nicolae Balcescu Rm.Valcea

Level in national or international classification

Level 3 – Secondary education:ISCED 3A

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (*)

French

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Basic user	B2	Independent user	A2	Basic user	A2	Basic user
C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user	A2	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences	Friendly, trustworthy, hard-working, communicative – in the expertise area.
Organisational skills and competences	<p>Competent organizer and coordinator, empathic with colleagues, innovative in new projects development; research experience gained through participation as a director / scientific responsible / team member to 30 national/international research projects, out of which into 6 had responsibilities for coordination of activities;</p> <p>She is the author of numerous scientific materials within several national projects as coordinator and collaborator, such as: investigations regarding the influence of natural processes and human activities concerning the isotopic fingerprint of the water extracted from plants grown in different ecosystems (MOLTRIG - Bilateral project with Republic of Moldova, contract No. 439/23.06.2010), investigation of the deuterium depleted water (DDW) effect on the evolution of different varieties of grapes <i>Vitis vinifera</i> and on the evolution of <i>Trichogramma</i> entomophage sampled from polluted ecosystems (the main significance regarding <i>Trichogramma</i> sp entomophage producing is strongly correlated with the plants biological protection against pests, the processes for the production of this entomophagous, including its multiplication on the eggs of the grain moth (<i>Sitotroga cerealiella</i>) thereby increasing their biological indices) (PNCDII Program 4: project 52-158/2008); validation and application of new isotopic methods and also in the analysis of pesticide residues from drinking water and low alcoholic beverages, as required by the EU food quality control regulation (RENAR CEEX No.268/2006); development of analytical methods for the authentication of food raw material origin (botanical and geographical) using IRMS technique (PNCDII Program 4: Project 52-162/2008 and 2343/2008; Nucleus Project: 09190205/2012; Nucleus Project: PN 16 36 04 01/2017).</p>
Technical skills and competences	<p>-specialist in isotope ratio mass spectrometry IRMS and mass spectrometry MS, gas chromatography GC; maintenance at mass spectrometer IRMS device and modules coupled at IRMS;</p> <p>-Reviewer since March 2013 at Analytical Letters, and from November 2014 at Environmental Processes, within the topic of mass spectrometry and chromatography (application: environment, food quality);</p>
Computer skills and competences	Competent with most Microsoft Office programmes;
Artistic skills and competences	Music, dancing;
Other skills and competences	Very curious and inventive; Hobby: working in garden.
Driving licence	B category.

Additional information

Marital status: married, one children (a daughter, 19 years);
Affiliations:
Member of Romanian Physics Society SRF (starting with 2001)
<http://www.sfizica.ro>
President of Romanian Physics Society SRF – Branch Rm.Valcea (22.06.17-June 2021)
2015-2017 Secretary in ESIR comity (European Society for Isotope Research).

Annexes

Annex 1: The experience accumulated in research projects (2 pages)
Annex 2: List of relevant published papers (16 pages).

I declare on my own responsibility that the data presented is in line with reality.

Date: 21.02.2018

Signature,

Annex 1: The experience accumulated in research projects

Program/Project	Function	Periods: from (month, year) until (month, year)
MENER: GIS monitoring system for air quality and toxic gases inventory assessment in urban areas	co-worker	12.10.2001- dec 2003
MENER: Mobile installation for conditioning ionic waste resin from nuclear industry	co-worker	10.11.2002- dec 2004
MENER: Radionuclide elimination from radioactive liquids wastage with centrifugal extraction from industry waste water	co-worker	11.10.2001- dec 2003
MENER: Integrate system for producing electric energy with fuel hydrogen cells and proton change membrane	co-worker	12.08.2002- iulie2005
MENER: „Decontamination waste industrial water with content chlorinate organic compounds through advanced oxidation on hydrophilic and hydrophobic catalysts”	co-worker	12.08.2002- dec 2004
GRANT 2003: Theoretical research to develop an analytical technique for separation a macromolecular compound with capillary electrophoresis”	Responsible, titular – author research paper	01.05.2003-01.12.2003
MENER: „Study of implementation a new ion source (electrospray) in mass spectrometry”	Scientific responsible –author research paper	10.07.2003- dec 2005
„Nouveaux Procédés de Dépôt Chimiques en Phase de Vapeur CVD de TiO ₂ pour l'applications photo-catalytiques”	Responsible, titular –research work in laboratory (Toulouse- France)	02.02.2004-03.05.2004
AGRAL „Development and implementation the new isotopic analysis for improved the quality control service in the wine industry, with a view to alignment at European Union requirements”	co-worker	01.09.2004-10.12.2006
MENER: „Research for presence to gas hydrates in Black Sea and estimation of economical importance”	Scientific responsible –author research paper	26.11.2002- july 2005
Program Nucleu 2006: „Development the system for following volatile organic compounds in foods quality control, in concordance with the Europeans Standard”	Scientific responsible –author research paper	10.01.2006-10.11.2008
RENAR CEEX no.236/2006: Validation and application of new methods for isotopic and pesticides residues analysis from drinking water and beverages, in concordance with the Europeans Standards in quality food control	Scientific responsible –author research paper	10.08.2006-10.12.2007
CEEX 2006 (no 733/2006)(partnership): „Research at dynamics carbor changing between atmosferic and terestrial area, their impac concerning environment and climate”	Scientific responsible –author research paper	24.07.2006-24.11.2008
PNCDI 2 (71-064): „Control system at compounds from mixture deuterium- tritium in liquid phase, product by cryogenic column distillation”	co-worker	14.08.2007-14.08.2010
PNCDI 2: 31-021/14.09.2007 - „Informatic system fuzzy for simulation and script evaluation from risc technological and ecological and manner action in context climatic changes”	co-worker	18.08.2007-18.08.2010
PNCDI 2 – Program 4 / D6 „Acquire and characterisation from target- nanomedicine with active substance at naftochinonic nature”	co-worker	Sept 2007 – 2010
PNCDII Program 4 52-158 : „ Research for identification and valorification of TRICHOGRAMMA bioshape in agro and forest ecosystems, the impact and management for include nanomaterials bioactive for multiplication technology of oofag”	Responsible – author research paper	October 2008-2011
PNCDII Program 4 52-162 : „AROMA PROFILE DEFINING FOR	Scientific	October 2008-2011

INLAND WINES USING ISOTOPICAL IRMS AND GAS-CHROMATOGRAPHIC TECHNIQUES, AS AUTHENTICATION FACTOR FOR THIS PRODUCTS, ON THE EUROPEAN MARKET”	responsible –author research paper	
PNCDII Program 4 2343/2008: „Foods assignment using isotopic methods. Case studies: honey and wine”	co-worker	October 2008-2011
PN091902010: Research on application methods and multi-element isotopic analysis to determine authenticity and geographical classification of Romanian wines	co-worker–author research paper	2008-2011
Modul III, Bilateral project Romania – Korea Republic - contract no.398/27.04.2010: „ The investigation, remediation and monitoring the water and soil from contaminated sites; share common scientific collaboration and training”	co-worker	27.04.2010-30.11.2011
PN 09190202, cod 11946 „ Isotopic fingerprinting of hydrocarbons from crude oil, with applications in characterizing the origin and maturity of oil “	Project manager	10.01-10.12.2012
Bilateral project with Rep. Moldova, no. contract 439/23.06.2010 – MOLTRIG, second partner from Romania P2: „Deceleration of the changes incurred by DDW in the phenotype and genotype polymorphism in species of Trichogramma collected from polluted ecosystems”	Project manager	01.10.2010-10.12.2012
PN 09190205 : „Studies concerning characterization and authentication of natural products regarding their protein profile”	Co-worker	01.09.2013-10.11.2014
PN 09190206 : „Research support on enforcement multi-element and multi-isotope investigations to established the origin markers for food traceability”	Project manager	01.09.2013-10.12.2014
PN 09 19 02 09 : Cercetari privind dezvoltarea de metode analitice avansate de investigare a compusilor biologic activi aflati in compozitia produselor naturale ecologice care stau la baza dezvoltarii unor alimente functionale si produse cosmetice	Colaborator	01.01.2015-10.12.2015
PN 16360401 : „ Assessing the impact of different ecosystems on stable isotopes and multi-element composition of plants – Researches on geo-seasonal variability”	Project manager	01.02.2016-15.12.2017
PN 16360402 „ Advanced research on authentication of food origin for the purpose of implementing innovative fingerprinting methodologies - customization for fruit products”	co-worker	01.02.2016-15.12.2017
PN 18 12 03 02 „Research regarding development of advanced analytical methods for the investigation of organic food from plant or animal origin”	co-worker	01.02.2018-31.12.2018

Annex 2: List of published papers

A. Publications with ISI factor / Citations (176) in articles published in ISI database and indexed in Contemporary Science Association, EBSCO (INIS):

1. F.D. Duminica, Francis Maury, **Costinel Diana (2006)** „*Elaborari de straturi subtiri de TiO₂ prin LPCVD si CVI pentru aplicatii fotocatalitice*” Revista de Chimie Bucuresti, (Indice de impact in 2004: 0.308), CHEMICAL ABSTRACTS CURRENT CONTENTS ANALYTICAL ABSTRACTS si indexata de Institute for Scientific Information ISI), vol.57 (1), ISSN 0034-7752, p.52-57. **Citations: 2;**

2. **Costinel Diana**, Voicu Grecu, Raluca Vremera si Stela Cuna (2009) „*STABLE OXYGEN AND HYDROGEN ISOTOPES MEASUREMENTS BY CF-IRMS WITH APPLICATIONS IN HYDROLOGY STUDIES*”, JOURNAL OF PHYSICS: CONFERENCE SERIES VOL. 182, 012038; ISSN: DOI: 10.1088/1742-6596/182/1/011002, ED. INSTITUTE OF PHYSICS PUBLISHING DIRAC HOUSE TEMPLE BACK BRISTOL. **Citations: 12 (4 autocitations);**

3. Preda Anisoara, **Diana Costinel**, Alina Miu, Cristina Barbu, Sofia Pintilie, Simona Sbirna (2010): „*ANALYSIS OF ISOTOPIC RATIO OF HYDROGEN FROM OLT RIVER BY MASS-SPECTROMETRY*”, No 1514/254.03.09, JEPE - Journal of Environmental, Protection and Ecology, Ed. Balkan Environmental Association (B.EN.A.) volumul 11, Issue 4, pages 1458-1464, ISSN 1311-5065, Science Citation Index Extended (SCIE) by THOMSON Scientific and Elsevier Abstracts: Geobase, EMBiology & SCOPUS, factor impact 0.178. **Citations: 2;**

4. **Costinel Diana**, Aurelia Tudorache, Ionete Roxana, Raluca Vremera (2011): „*THE IMPACT OF GRAPE VARIETIES TO WINE ISOTOPIC CHARACTERISATION*”, Journal Analytical Letters, Volume 44, Issue 18, Print ISSN: 0003-2719, Online ISSN: 1532-236X; impact Factor: 1.091, influence scor: 0,5371; p.2856-2864. **Citations: 14 (and 3 in doctoral thesis):**

5. Vremera Raluca, **Costinel Diana**, Ionete Roxana (2011): „*Isotopic characterization of the major water source of Rm.Valcea area, Romania*” Asian Journal of Chemistry, vol 23, no. 12, p.5202-5204, ISSN: 0970-7077, impact factor: 0,247, influence scor: 0,112 **Citations: 2;**

6. Vremera Raluca, **Costinel Diana**, Ionete Roxana Elena, Titescu Gheorghe (2011): *Overview on Dioxins and Furans Atmospheric Emissions in Romania*, Environmental Engineering and Management Journal, Volume 10, Issue 2, pp. 241-250, ISSN: 1582-9596, (Journal Citation Reports, published by Thomson Reuters 2010, IDS Number: 754BR, Times Cited in Web of Science: 0, Impact Factor:1.435;

7. Dana Alina Magdas, Stela Cuna, Gabriela Cristea, Roxana Ionete, **Diana Costinel (2012)** – *Stable isotopes determination in some Romanian wines*, Isotopes in Environmental and Health Studies, Volume 48, Issue 2, Pages: 345-353, DOI: 10.1080/10256016.2012.661731, publisher Taylor&Francis, ISSN 1025-6016 print/ISSN 1477-2639 on-line, impact factor; 0,967; influence scor: 0,76512. **Citations: 17;**

8. Diana Florescu, Andreea Iordache, **Diana Costinel**, Elena Horj, Roxana Ionete, Monica Culea (2013) - *Validation procedure for assessing the total organic carbon in water samples*, Romanian Journal of Physics, Vol. 58, No. 1-2, ISSN: 1221-146X (IF/2011:0,414), impact factor; 0,414; factor de impact corectat: 0,514. **Citations: 9;**

9. DANIELA GIOSANU, **DIANA COSTINEL**, LOREDANA ELENA VIJAN, IONICA DELIU (2013): *The Isotopic Analysis - a Good Tool for Verifying the Geographical Origin of Wines*, Revista de Chimie Bucharest, nr.4, vol 64, p. 414-416, Journal ISSN: 0034-7752, Impact Factor 0,538 (2012) (OCLC 1908597). **Citations: 1**

10. Raluca Popescu, **Diana Costinel**, Roxana Elena Ionete, Diana Ionela Stegarus, Adrian Cornelius Marinescu, Aurelia Tudorache (2014): „*AROMA PROFILE OF YOUNG WINES FROM TEN NATIVE AND FOREIGN VARIETIES GROWN IN ROMANIA*”, Revista de Chimie, Bucharest, Original Edition - Impact Factor: 0.54, no. 01; 65(2):168-173. **Citation: 1;**

11. Oana Dinca, Roxana Ionete, **Diana Costinel**, Popescu Raluca, Gabriel Lucian Radu (2015) - „*Geographical and Botanical origin discrimination of Romanian honey using complex stable isotope data and Chemometrics*”, *Food Analysis Methods*, 401-412, DOI:10.1007/s12161-014-9903-x, (IF 2014: 1,956); **Citations: 25**;
12. Geana E.I., **Costinel D.**, Marinescu A., Ionete R.E., Bala C. (2014). Characterization of Wine by trans-Resveratrol Concentration: a Case Study of Romanian Varieties, *Analytical Letters*, 47(10):1737-1746, Factor impact: 0,982. **Citations: 4**;
13. Raluca Popescu, **Diana Costinel**, Roxana Elena Ionete, Damian Axente (2014). Isotopic fingerprint of the middle Olt River basin, Romania, *Isotopes in Environmental and Health Studies*, 50(4):461-474, Factor Impact: 1,257. **Citations: 4**;
14. Raluca Popescu, Roxana Elena Ionete, Oana Dinca, **Diana Costinel** (2014) *Discrimination of vegetable oils using NMR spectroscopy and chemometrics*, *Food Control Journal*, 48:84-90, Factor impact: 2,819. **Citations: 29**;
15. Popescu R., Mimmo T., Dinca O.R., Capici C., **Costinel D.**, Sandru C., Ionete R.I., Stefanescu I., Axente D. (2015) „*Using stable isotopes in tracing contaminant sources in an industrial area: A case study on the hydrological basin of the Olt River, Romania*”, *Science of the Total Environment*, Volume 533, 15 November 2015, Pages 17–23, doi:10.1016/j.scitotenv.2015.06.078, (Impact Factor for 2014: 4.099); **Citations: 11**;
16. Raluca Popescu, Elisabeta Irina Geana, Oana Romina Dinca, Claudia Sandru, Diana Costinel and Roxana Elena Ionete (2016) „*Characterization of the Quality and Floral Origin of Romanian Honey*”, *Analytical Letters*, vol. 49, issue 3, pp. 411 – 422 (2016) (IF/2015: 1,088; **Citations: 3**);
17. Elisabeta Irina Geana, Raluca Popescu, Diana Costinel, Oana Romina Dinca, Roxana Elena Ionete, Ioan Stefanescu, Victoria Artem, Camelia Bala (2015) *Classification of red wines using suitable markers coupled with multivariate statistic analysis*, *Food Chemistry* vol 192:1015–1024, 2016, Available online 23 July 2015, doi:10.1016/j.foodchem.2015.07.112 (IF/2014 = 3,391); **Citations: 12**;
18. Roxana Elena Ionete, Raluca Popescu, **Diana Costinel** (2015) „*An isotopic survey of some mineral water resources in the Carpathian chain (Romania)*”, *Environmental Engineering and Management Journal*, (IF 2013: 1,258, scor relativ de influenta 0,085), october 2015, vol. 14, no.10; **Citations: 2**;
19. Faurescu Ionut, Varlam Carmen, Faurescu Denisa, Vagner Irina, Cosma Constantin, **Costinel Diana** (2015) „*Underground water dating and age corrections using radiocarbon*”, *Journal of Radioanalytical and Nuclear Chemistry*, vol. 306, issue 1, p. 263-269, Springer Netherlands, DOI: 10.1007/s10967-014-3909-0 (IF). **Citations: 1**;
20. Elisabeta Irina Geana, Raluca Popescu, **Diana Costinel**, Oana Romina Dinca, Ioan Stefanescu, Roxana Elena Ionete, Camelia Bala (2016) „*Verifying the red wines adulteration through isotopic and chromatographic investigations coupled with multivariate statistic interpretation of the data*”, *Food Control*, Vol. 62, pages 1-9, (IF/2015 =3,388) <http://dx.doi.org/10.1016/j.foodcont.2015.10.003>. **Citations: 5**;
21. Oana Romina Dinca, Roxana Elena Ionete, **Diana Costinel**, Irina Elisabeta Geana, Raluca Popescu, Ioan Stefanescu, Gabriel Lucian Radu (2016) „*Regional and vintage discrimination of Romanian wines based on elemental and isotopic fingerprinting*”, *Food Analytical Methods*, vol. 9, pp. 2406-2417; DOI: 10.1007/s12161-016-0404-y (IF/2015: 2,167); **Citations: 9**;
22. **Costinel D.**, Ionete R.E., Botoran O.R., Popescu R. and Butnaru G. (2016) „*Effect of water deuterium content on plants development*” *Journal of Biotechnology*, 231, pp.S82-S83, Supplement- selected pp. S1-S110 (10 August 2016) Abstracts of European Biotechnology Conference, Latvia, 05–07 May 2016 (FI/2015: 2.667)
23. Botoran O.R., Ionete R.E., **Costinel D.**, Popescu R., Geana E.I. and Miricioiu M.G (2016) „*Influence of climate and origin on the isotopic and elemental profile of fruits*” *Journal of Biotechnology*, 231, pp.S77-S78, Supplement- selected pp. S1-S110 (10 August 2016) Abstracts of European Biotechnology Conference, Latvia, 05–07 May 2016 (FI/2015: 2.667); **Citations: 1**;

24. Oana Romina Botoran, Raluca Popescu, Diana Costinel, Roxana Elena Ionete (2017) „O–H–C stable isotopes as discriminant markers for fruits botanical origin”, Journal of Biotechnology Special Issue , 2017, 256S, S104 (FI/2016: 2,599);

25. Diana COSTINEL, Roxana Elena IONETE, Oana Romina BOTORAN, Raluca POPESCU and Irina Elisabeta GEANA (2017) „ Stable Isotopes (O-H-C) – Optimum Markers in Protecting Designation of Origin (PDO) and Geographical Indication (PGI) of Romanian Wines” Journal of Biotechnology (Elsevier), Volume 256S, 30.08.2017, ISSN 0168-1656 Elsevier, p.S104, (FI/2016: 2.599) 2017 (scor relativ de influenta al jurnalului: 1,306);

26. Ionela Ramona ZGAVAROGEA, Violeta NICULESCU, Marius MIRICIOIU, Andreea-Maria IORDACHE, Diana COSTINEL (2017) „ Waste gas biotreatment”, Journal of Biotechnology (Elsevier), Volume 256S, 30.08.2017, ISSN 0168-1656 Elsevier, p.S62, (FI/2016: 2.599);

27. R. Popescu, O.R. Botoran, D. Costinel, F.Bucura, R.E. Ionete, A. Scutelnicu, M. Botu (2017) „Comparing Hazelnut (*Corylus avellana* L.) cultivars using NMR, C/H/N analysis and $\delta^{13}\text{C}$ -IRMS”, Journal of Biotechnology Special Issue, 2017, 256S, S104, (FI/2016: 2,599);

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18. **COSTINEL Diana**, V. V. Grecu, S Cuna, R Vremera si I Faurescu (2009) „*THE STABLE ISOTOPES IN THE HYDROLOGY STUDIES AT RAURENI-VALCEA AREA*”, Rev. Progress in Cryogenics and Isotopes Separation - number 23-24, ISSN:1582-2575, CNCSIS quote 619, oct.2009, Ed.Conphys, Rm.Valcea, p.19-24;
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27. **Diana Costinel**, Geana Irina, Ionete Roxana, Dinca Oana (2012) „*COMPOUND-SPECIFIC CARBON ISOTOPE ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS USING GAS CHROMATOGRAPHY COMBUSTION ISOTOPE RATIO MASS SPECTROMETRY GC-C-IRMS*” revista Progress of Cryogenics and Isotopes Separation, vol 15, Issue 2, ISSN:1582-2575; Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS).
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29. Mihaela Iordache, Ioan Iordache, Luisa Roxana Popescu, **Diana Costinel** (2013): „*HAZARDOUS SUBSTANCES IN WATER AND SEDIMENTS OF OLT RIVER, DOWNSTREAM FROM RM.VALCEA*” – Rev. Progress of Cryogenics and Isotopes Separation, vol 16, Issue 2, ISSN:1582-2575, 2013, p. 109-118; Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS).

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31. R. Popescu, O.R. Dinca, **D. Costinel**, E. Gorincioi, A. Barba, R.E. Ionete (2014) „*Spirits Classification Using 1H NMR and Chemometrics*”, in revista *Progress in Cryogenics and Isotopes Separation* 17(2):35-41;
32. **Diana Costinel**, Roxana Elena Ionete, Oana-Romina Dinca, Raluca Popescu and Elisabeta-Irina Geana (2014) „*IRMS METHODS FOR ASSURANCE THE ORIGIN OF HONEY USING $\delta^{13}C$ AND $\delta^{15}N$ ISOTOPIC FINGERPRINTS*” Rev. Progress of Cryogenics and Isotopes Separation, vol 17, Issue 2, ISSN:1582-2575: 25-34; indexed in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS). **Citation: 1;**
33. Oana-Romina Dinca, Roxana Elena Ionete, **Diana Costinel**, Raluca Popescu, Marius Miricioiu, Ioan Stefanescu, Gabriel-Lucian Radu (2015) „*Evaluating the origin of honey by stable isotopes ratio (C and N) using multivariate statistical analysis*”, Rev. Progress of Cryogenics and Isotopes Separation, vol 18, Issue 1, ISSN:1582-2575: 73-88; indexed in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS);
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35. Roxana Elena Ionete, Oana Romina Dinca, Elisabeta Irina Geana, **Diana Costinel** (2016) „*Macro- and microelements as possible markers of quality and authenticity for fruits and derived products*”, Progress of Cryogenics and Isotopes Separation, Volume 19, issue 1/2016, pg. 55-74
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C. Articles published with ISBN notation:

- Costinel Diana**, Petreanu Irina, Vremera Raluca, Lazar Roxana, Stanciu Vasile: „*Tendinte in tehnica analitica prin GC/MS pentru determinarea reziduurilor de pesticide din vinuri, in vederea alinierii la Standardele europene*” Books of abstracts at XXIXth Romanian Chemistry Conference Olthchim Rm.Valcea, CNCSIS quote 189, ISBN 978-973-750-124-0, octombrie 2006, p.351;
- Vremera Raluca, **Diana Costinel**, Andreea Iordache, Roxana Ionete: „*Determinarea concentratiei de compusi organici volatili prin termodesorbție GC/MS*” Books of abstracts at XXXth Romanian Chemistry Conference Olthchim Rm.Valcea, CNCSIS quote 189, ISBN 978-973-750-124-0, octombrie 2008, p.326;
- Giosanu Daniela, **Costinel Diana**, Deliu Ionica, Vijan Loredana: „*ANALYTICAL MEASUREMENTS FOR THE FINGERPRINT SETTING OF WINES FROM VALEA CALUGAREASCA –ROMANIA*”, ISBN 978-973-598-722-0, book of abstracts „*Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences*”, p.147, 2010;
- Diana Costinel**, Aurelia Tudorache, Roxana Elena Ionete, Raluca Vremera: „*THE IMPACT OF GRAPE VARIETIES TO WINE ISOTOPIC CHARACTERISATION. CASE STUDY: DEALU MARE-VALEA CALUGAREASCA VINEYARD*”, ISBN 978-973-598-722-0, book of abstracts „*Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences*”, p.149, 2010;
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- Costinel Diana**, Ionete Roxana, Vremera Raluca, C. Joo Soo (The Catholic University of Korea): „*THE POTENTIAL OF DEUTERIUM AND OXYGEN ISOTOPES IN EVALUATING DIFFERENT WATER SOURCES*”, Book of abstract at 16th ICIT Conference „*Progres in Cryogenics and isotopes separation, oct 2010, ISBN: 978-973-750-192-9, sectiunea: Agriculture and food safety*,
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- D. Costinel**, R.E. Ionete, R. Popescu, O.R. Botoran, R. Tamain, G. Butnaru (2017) "Assessment of deuterium in plants grown with waters of different concentrations in deuterium. Remarks" XIV-lea Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, Book of Abstracts;
- R. Popescu, **D. Costinel**, O.R. Botoran, R.E. Ionete (2017) "Stable isotopes survey of Olt River – Middle Basin (Romania). Attempts on nitrogen source identification in the vicinity of the Rm. Valcea industrial area" XIV-lea Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, Book of Abstracts;
- R. E. Ionete, O. R. Botoran, R. Popescu, **D. Costinel** (2017) "Applications of Stable Isotopes as Indicators in Food Quality and Authenticity Studies" XIV-lea Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, Book of Abstracts;

11. O. R. Botoran, R. E. Ionete, **D. Costinel**, R. Popescu (2017) "*Application of Chemometric Techniques in Stable Isotope Evaluation*" XIV-lea Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, Book of Abstracts;

12. Irina Vagner, Carmen Varlam, Ionut Faurescu, Denisa Faurescu, Diana Bogdan, **Diana Costinel**, Violeta Niculescu (2017) „*ESTIMATION OF THE PURIFICATION TECHNIQUES OF THE SAMPLES FROM THE WINES FOR TRITIUM ANALYSIS USING LIQUID SCINTILLATION COUNTING*” XIV-lea Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, Book of Abstracts;

13. Ionut Faurescu, Carmen Varlam, Irina Vagner, Denisa Faurescu, Diana Bogdan, **Diana Costinel** (2017) *ATMOSPHERIC C-14 OBSERVATION DURING 2013-2016 IN RAMNICU VALCEA, ROMANIA*, XIV-lea Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, Book of Abstracts;

14. R. Popescu, O.R. Botoran, **D. Costinel**, R.E. Ionete (2017) „Discrimination of fruits by SNIF-NMR and ¹H/¹³C-NMR profiling”, CEUM 2017 - 19th Central and Eastern European NMR Symposium & Bruker Users' Meeting, 05 – 08 Septembrie 2017, Timisoara;

Book:

1. Elena Branduse, **Diana Costinel**, Laura Fotescu, Roxana Elena Ionete, Raluca Popescu, Aurelia Tudorache : *Aroma Vinului. Tehnici Moderne de Investigare a Compusilor Volatili*, 2011, Ed.Conphys (recunoscuta CNCSIS – cod 189), ISBN: 978-973-750- 215-5.

2. Rodica Sturza, Boris Gaina, Roxana Elena Ionete, **Diana Costinel** (2017) „Autenticitatea si inofensivitatea produselor uvologice”, Universitatea Tehnica a Moldovei – Chisinau, ISBN 978-9975-3175-2-8.

Other publishing activities:

Starting with March 2013, Ms. Costinel Diana is reviewer at Analytical Letters (6 papers), November 2014 at Environmental Processes (2 papers), Mass Spectrometry and Chromatography (Applications: Environment, Food Quality) and September 2015 for the journal: Progress of Cryogenics and Isotopes Separation (PCIS) Rm.Valcea-Romania (1 paper).

International awards:

- Plaque AGRO ARCA for : "Wine Authentication - Aromas Fingerprinting", authors: Ionete R.I., **Costinel D.**, Popescu R., Stefanescu I., Stanciu V., at "3th International Fair on Innovation, New Ideas, Products and Technologies in Agriculture and Food Industry", Slatina, Croatia, 2010.
- The best poster award offered by Romanian International Chapter of ACS. Chemistry for Life, for the paper "Characterization and Classification of Romanian Botanical Honeys" authors: Popescu Raluca, Geana Elisabeta Irina, Dinca Oana Romina, Sandru Claudia, **Costinel Diana**, Ionete Roxana Elena presented at the 3rd International Conference "Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences" Brasov, Romania, 13th – 15th June, 2014.
- The best poster award offered by the president of the organizing committee prof. Stefano Grego Tuscia University, Italy, for the paper "The use of isotopic and multi-element pattern in the soil-plant system as tool for fruit juices authentication in terms of geographical origin" authors: Oana-Romina Dinca, Roxana Elena Ionete, **Diana Costinel**, Raluca Popescu, Geana Elisabeta-Irina, Radu Tamaian, Gabriel-Lucian Radu presented at the XLIII Annual Meeting of the European Society for new methods in Agricultural Research „Feeding the world: the Importance of the Sustainable Agriculture and innovative methods”, Bolzano, Italy, 3rd -6th September, 2014.
- The Best Poster Award, offered by the Romanian International Chapter of ACS. Chemistry for Life, for the paper "Characterization and Botanical Classification of Romanian Honeys" by authors Popescu R., Geana E.I., Dinca O.R., Sandru C., Costinel D., Ionete R.E. presented at the 3rd International Conference "Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences" Braşov, Romania, 13 - 15 June 2014;
- Awarding 3 articles in the 2016 Competition - Awarding the research results as follows:
 - ❖ "Regional and Vintage Discrimination of Romanian Wines Based on Elemental and Isotopic Fingerprinting" by Oana Romina Dinca, Roxana Elena Ionete, Diana Costinel, Irina Elisabeta Geana, Raluca Popescu, Ioan Stefanescu, Gabriel Lucian Radu, published in Food Analytical Methods (2016) , vol. 9, pp. 2406-2417.
 - ❖ "Verifying the red wines through the isotopic and chromatographic investigations combined with multivariate statistical interpretation of data" by Elisabeta Irina Geana, Raluca Popescu, Diana Costinel, Oana Romina Dinca, Ioan Stefanescu, Roxana Elena Ionete, Camelia Bala, published in Food Control (2016) 62: 1-9
 - ❖ "Classification of red wines using appropriate markers coupled with multivariate statistical analysis" by Elisabeta Irina Geana, Raluca Popescu, Diana Costinel, Oana Romina Dinca, Roxana Elena Ionete, Ioan Stefanescu, Victoria Artem, Camelia Bala, published in Food Chemistry (2016) 192: 1015-1024
- Awarding of the patent "The Isotopic Imprinting of Fluoride Compounds in Liquid Samples, Especially Wine" by Ionete Roxana Elena, Costinel Diana, Popescu Raluca, Ştefănescu Ioan at the INVENT-INVEST 2016 International Fair of Inventions and Ideas, 15-18.09.2016 - diploma of excellence and gold medal.

- The Best Poster Award presented by Arpad Ambrus, Chairman of the National Food Chain Safety Office, Hungary, for the paper "Assessing the Traceability and Authenticity of Fruit Juices in terms of Isotopic Fingerprinting" by Botoran Oana-Romina , Diana Costinel, Raluca Popescu, Ioan Stefanescu, Roxana Elena Ionete presented at the 2nd International Conference on Food Safety and Regulatory Measures, London, UK, 06 - 08 June 2016
- The award for the best poster offered by Organizing Committee Chairman Mark T. Norman of the International Wine Professional Network, USA, for the work "Multi-compound isotope profiling - an approach to differentiate the variety and harvest year of wines" Authors: Botoran Oana-Romina, Costinel Diana, Popescu Raluca, Geana Irina-Elisabeta, Ionete Roxana-Elena at the 3rd European Food Safety and Standards Conference, Valencia, Spain, 24-25 October 2016
- The Best Presentation Award for the "18th International Conference on Agricultural Engineering, Food and Beverage Systems", November 30 - December 3, 2016, Amsterdam, Netherlands, for the paper "Isotopes Used in Comparing Indigenous and International Walnut (*Juglans regia* L.) varieties "authors: Popescu R., Costinel D., Botoran OR, Geana EI, Ionete RE, Alabedallat YFJ, Botu M.
- The Best Poster Award at the XIVth Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, with the work: OR Botoran, RE Ionete, D. Costinel, R. Popescu (2017) "Application of Chemometric Techniques in Stable Isotope Evaluation".

Patent:

- Patent application 2011013330 – “Process for Isotopic Fingerprinting of Flavour Compounds in Liquid Samples, in Particular Wine”, authors Ionete R.E., **Costinel D.**, Popescu R., Stefanescu I., published in the Official Bulletin of Industrial Property, RO-BOPI 7/2013; HG 3/173 from OSIM at 29.07.2016.

February 21th, 2018

Signature,