

## Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Paun Nadia**  
Address(es) 25th, Henri Coanda Street, 240239, Rm.Valcea, ROMANIA  
Telephone(s) +4-0250-732744, +4-0746027707  
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E-mail nh@icsi.ro  
Nationality Romanian  
Date of birth March 11, 1977  
Gender Female

### Work experience

Dates	October 1, 2009 - present
Occupation or position held	Chemist, Scientific Researcher 3rd degree
Main activities and responsibilities	Chemist, Physical and Chemical Analysis, Environment and Food Quality Laboratory-03 Experimental research in the field of LC/MS determination of biopolymers, aminoacids and proteins, polyphenolic compounds extractions, HPLC determination of polyphenols, HPLC determination of anthocyanic profile from wine, grapes and blackberries, total content determination of polyphenolics by spectrophotometric method, researches for new complex combination of naphtoquinonic nature obtain. Experimental research in the field of natural drugs and other therapeutics in the areas of immunology and oncology; immunochemistry of immunoconjugates. Experimental research in the field of nanomaterials (synthesis, characterization and applications), with emphasis on mesoporous silica for environmental and life science applications.
Name and address of employer	National R&D Institute for Cryogenic and Isotopes Technologies - ICIT Ramnicu Valcea, 4 <sup>th</sup> Uzinei Street, 240050, Ramnicu Valcea, ROMANIA.
Type of business or sector	Academic research
Dates	August 1, 2016 - present
Occupation or position held	President of reception committee, Scientific Researcher 3rd degree
Main activities and responsibilities	Verifying the goods' services in terms of quantity and quality, their reception
Type of business or sector	Economic
Name and address of employer	National R&D Institute for Cryogenic and Isotopes Technologies - ICIT Ramnicu Valcea, 4 <sup>th</sup> Uzinei Street, 240050, Ramnicu Valcea, ROMANIA.
Dates	July 01, 2006 - October 01, 2009
Occupation or position held	Scientific Researcher
Main activities and responsibilities	Experimental researches in the field of HPLC determination of polyaromatic compound from different sources: water, soil, foods. Development of experimental models and production methods to achieve experiments, characterization and testing of new combinations of natural naphtoquinonic complex. New complex combination of naphtoquinonic nature obtains (using distilled water to prepare both GFL and distilled water with reduced deuterium content), work methodology elaboration for chromatographic techniques (HPLC and LC/MS-MS) by naphtoquinones identification from biological samples.
Name and address of employer	National R&D Institute for Cryogenic and Isotopes Technologies - ICIT Ramnicu Valcea, 4 <sup>th</sup> Uzinei Street, 240050, Ramnicu Valcea, ROMANIA.

Type of business or sector	Academic research
Dates	October 01, 2003 – July 01, 2006
Occupation or position held	Chemist
Main activities and responsibilities	Research for heavy water separation through electrolysis, education stage, fundamental and applicative research for electrochemical process application at hydrogen isotope separation, study the behaviour of surface materials by electrochemical methods, study of inert gas mixtures
Name and address of employer	National R&D Institute for Cryogenic and Isotopes Technologies - ICIT Ramnicu Valcea, 4 <sup>th</sup> Uzinei Street, 240050, Ramnicu Valcea, ROMANIA.
Type of business or sector	Experimental research (pilot plant production)
<b>Education and training</b>	
Name and type of organisation providing education and training	Faculty of Industrial Chemistry, Technical University of "Gh. Asachi" Iasi, Romania
Level in national or international classification	Level 6 - Second stage of tertiary education
Dates	October 01, 2002- June 15, 2003
Title of qualification awarded	Master degree
Principal subjects/occupational skills covered	Chemical science / Dissertation title: "Treatment catalytic exhaust gas Otto engines"
Name and type of organisation providing education and training	Faculty of Industrial Chemistry, Technical University of "Gh. Asachi" Iasi, Romania, Environmental Catalysis specialisation
Level in national or international classification	Level 5 - First stage of tertiary education – ISCED 5A
Dates	October 1, 1996 – June 30, 2000
Title of qualification awarded	Bachelor of Physical-Chemistry
Principal subjects/occupational skills covered	License title: The kinetics of simple chain reactions. Influence of carbon addition on the term oxidative degradation of polytetrafluoroethylene
Name and type of organisation providing education and training	Faculty of Chemistry, University of Al. I. Cuza Iasi, Romania, Physical-Chemistry specialization.
Level in national or international classification	Level 5 - First stage of tertiary education – ISCED 5A
Dates	September 15, 1991 – June 15, 1995
Title of qualification awarded	Bachelorette in Physical - Chemistry
Principal subjects/occupational skills covered	Physical, Chemistry
Name and type of organisation providing education and training	Theoretical high school "Stefan cel Mare" Harlau
Level in national or international classification	Level 3 - (Upper) secondary education – ISCED 3A

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	A2	Basic user

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences	Friendly, Trustworthy, Hard-working, Communicative
Organisational skills and competences	Competent organizer and coordinator, empathic with colleagues, innovative in new projects development
Technical skills and competences	Laboratory skilled in the area of life sciences
Computer skills and competences	HyperChem, ChemWin, Operation system: Microsoft Windows Vista, Microsoft Windows 7 & Microsoft Windows XP Productivity suite: Microsoft Office 2010; OpenOffice.org 3.3.0 Drawing and photo manipulation: CorelDRAW Graphics Suite X5, Adobe Photoshop CS5 Multimedia software & Internet browsers
Other skills and competences	Open-minded, very curious and inventive
Driving licence	B category.
<b>Additional information</b>	<b>Marital status:</b> I am married with Cristian-Adrian Paun (since July 30, 2005) 2008 Specialisation course for Manager of the Environment Systems, code COR 242304 2008 Specialisation course for Project Manager, code COR 241919  <b>Affiliations:</b> Member of Romanian Society of Biochemistry and Molecular Biology: <a href="http://srbbm.biochim.ro">http://srbbm.biochim.ro</a> Member of Romanian Society of Chemistry: <a href="http://www.schr.org.ro">http://www.schr.org.ro</a> Member of Romanian Association for Hydrogen Energy: <a href="http://www.h2romania.ro">http://www.h2romania.ro</a>
<b>Annexes</b>	List of relevant published papers, the experience accumulated in Romanian research programs

#### A. Books or chapters of books published or accepted for publication

1. Violeta Niculescu, **Nadia Paun**, Roxana Ionete (2017) - *The evolution of polyphenols from grapes to wines*, in "Grapes and Wines - Advances in Production, Processing, Analysis and Valorization", ISBN 978-953-51-5583-6, INTECH, 19 pagini.

#### B. Patents / Patent Applications

1. Titescu Gheorghe, Stefanescu Ioan, Ciortea C-tin, Armeanu Adrian, **Paun Nadia**, Mladin Cristian Tutu, Petre Radu Marius (2017) - „ *Ordered packing from metallic mesh*” –no. A/01014/ 14.12.2017.
2. Mladin Cristian, Stefanescu Ioan, Ferdes Ovidiu Sorin, Croitoru Cornelia, **Paun Nadia**, Ciortea Constantin, Mocanu Dan, Titescu Gheorghe, Patent application RO129778-A2 (A/201101446 from December 12th, 2011) – Optimized installation for deuterium depleted water production (authors:), published in BOPI (The Official Industrial Property Bulletin of Romania), Section Patents No. 9, 30-09-2014.

#### C. Selected papers (with ISI Impact Factor – IF):

1. Radu Tamaian, Nadia Paun, Violeta Niculescu (2017) - *New anti DNA topoisomerase naphthalenedione leads* in Eur Biophys J (2017) 46 (Suppl 1):S320, P-785 (ISSN: 0175-7571 – print version; ISSN: 1432-1017 – electronic version), **IF: 1.472/2016**.
2. Ionela Ramona Zgavaroagea, Violeta Carolina Niculescu, Marius Gheorghe Miricioiu, Andreea-Maria Iordache, **Nadia Paun**, Cristina Covaliu (2017) - *Waste gas biotreatment* in Journal of Biotechnology, Volume: 256, pages: S62-S62, Supplement: S, DOI: <https://doi.org/10.1016/j.jbiotec.2017.06.1010>, ISSN: 0168-1656, **IF: 2.599/2016**.
3. Zgavaroagea, Ramona Ionela; Niculescu, Violeta Carolina; Miricioiu, Marius Gheorghe; **Paun, Nadia** - New trends in sludge mechanical degradation, JOURNAL OF BIOTECHNOLOGY, Vol. 231/2016, Supplement: S, DOI: 10.1016/j.jbiotec. 2016.05.273 (pages: S75-S75) (IF/201: 2.599)
4. R. Tamaian, **N. Paun**, V. Niculescu, A. Iordache, R. Vremera, S. Broscatean (2008) – *Antibiotic Effects Of The Naphtoquinonic Derivative On Gram-Positive And Gram-Negative Germs* in **Chemické Listy**, 102, s479–s481, ISSN 1803-2389 (**Impact Factor IF/2007: 0,683**).

#### D. Citations:

1. “*MEMBRANE BIOREACTOR (MR) TECHNOLOGY-A NEW AND EFFECTIVE TREATMENT OF WASTEWATER*”, Authors: Ramona Zgavaroagea, Cristina Covaliu, Violeta Niculescu, Marius Miricioiu, **Nadia Paun**, Andreea Iordache, Marin Neacșa, in: Progress of Cryogenics & Isotopes Separation, 2017, Volume 19, Issue 2 - total 1 citari din care 1 citari in anul 2017, si anume:
  - 1.1. "Wybrane aspekty eksploatacji bioreaktora membranowego (MBR)", authors: Piaskowski, Krzysztof, and Mateusz Nowacki. In: Technologia Wody 4 (54) (2017): 38-45.
  2. *ANTHOCYANIN PROFILE OF BLACKBERRIES AND GRAPES*, authors: Violeta Niculescu, **Nadia Paun**, Mihaela Silion, Marcel Ionel Popa, Progress of Cryogenics & Isotopes Separation, vol 13, issue 1/2013 - total 1 citari din care 1 citari in anul 2017, si anume:
    - 2.1. „Porównanie właściwości przeciwtleniających wybranych części maliny właściwej (*Rubus idaeus*) i jeżyny europejskiej (*Rubus fruticosus*)”, authors: Joanna Zielonka-Brzezicka, Anna Nowak, Magdalena Zielińska, Adam Klimowicz, Pomeranian Journal of Life Sciences, vol. 62(4), 2016

2.2. "PREPARATION AND STABILITY OF CORE-SHELL TYPE ORGANIC MICRO- AND NANOPARTICLES", BACHELOR'S THESIS, author: DANA BYRTUSOVÁ, BRNO 2014, Czech Republic, [cit. 2014-04-10], [www.web.b.ebscohost.com](http://www.web.b.ebscohost.com).

3. "Anthocyanin profile of blackberries and grapes", authors: Violeta Niculescu, **Nadia Paun**, Mihaela Silion, Marcel Ionel Popa, in "Progress of Cryogenics and Isotopes Separation", Vol. 16. Issue 1/2013, 119-124; CNCSIS Cat. C (619).

Cited by:

3.1. "PREPARATION AND STABILITY OF CORE-SHELL TYPE ORGANIC MICRO- AND NANOPARTICLES", BACHELOR'S THESIS, author: DANA BYRTUSOVÁ, BRNO 2014, Czech Republic, [cit. 2014-04-10], [www.web.b.ebscohost.com](http://www.web.b.ebscohost.com).

4. "Ultrasound Assisted Extraction of Phenolic Compounds from Grapes", authors: **Nadia P.**, Niculescu V., Tamaian R.. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Animal Science and Biotechnologies, 67(1-2)/2010.

Cited by:

4.1. "Vers une amelioration quantitative et qualitative de l'extraction des composés phenoliques du marc de raisin rouge a l'aide d'electrotechnologies", author: Silène Brianceau, Universite de Technologie Compiègne, Compiègne, France [cit. 2015-12-18].

4.2. "The evolution of polyphenols from grapes to wines, in "Grapes and Wines - Advances in Production, Processing, Analysis and Valorization", authors: Violeta Niculescu, Nadia Paun, Roxana Ionete -, book edited by António Manuel Jordão and Fernanda Cosme, ISBN 978-953-51-3834-1, Print ISBN 978-953-51-3833-4, Published: February 28, 2018 under CC BY 3.0 license. Pages 119-141. DOI: 10.5772/intechopen.72800.

5. "Isolation, purification and biological properties of anthocyanins", authors: **Nadia Paun**, Violeta Niculescu, in: Progress of Cryogenics and Isotopes Separation Volume 14, issue 1/2011, ISSN 1582-2575, 101-110, CNCSIS 619, Cat C, Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS).

Cited by:

5.1. "Colorimetry Technique as a Tool for Determining Release Kinetics and Mass Transfer Parameters of Anthocyanins Encapsulated in W1/O/W2 Double Emulsions", authors: Mónica Escobar Blanco, J. Alberto Quezada Gallo, K. Shaindel Estrada Arias, Ruth Pedroza Islas, in: International Journal of Food Engineering, Volume 12, Issue 7, Pages 615-624, ISSN (Online) 1556-3758, ISSN (Print) 2194-5764, DOI: 10.1515/ijfe-2015-0243, July 2016 (IF: 0,712/2015).

5.2. "The evolution of polyphenols from grapes to wines, in "Grapes and Wines - Advances in Production, Processing, Analysis and Valorization", authors: Violeta Niculescu, Nadia Paun, Roxana Ionete -, book edited by António Manuel Jordão and Fernanda Cosme, ISBN 978-953-51-3834-1, Print ISBN 978-953-51-3833-4, Published: February 28, 2018 under CC BY 3.0 license. Pages 119-141. DOI: 10.5772/intechopen.72800.

6. "Identification of plumbagin and quercetin in *Drosera* genus", authors: **Nadia PAUN**, Violeta NICULESCU, Radu TAMAIAN, in: Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Animal Science and Biotechnologies, vol. 67, issue 1-2, 2010.

Cited by:

6.1. "Pollinator-prey conflicts in carnivorous plants: When flower and trap properties mean life or death", Ashraf M. El-Sayed, John A. Byers, David M. Suckling, Sci Rep. 2016; 6: 21065, Published online 2016 Feb 18. doi: 10.1038/srep21065 (IF/2015: 5.228).

7. "MEMBRANE BIOREACTOR (MR) TECHNOLOGY-A NEW AND EFFECTIVE TREATMENT OF WASTEWATER", Authors: Ramona Zgavaroagea, Cristina Covaliu, Violeta Niculescu, Marius Miricioiu, **Nadia Paun**, Andreea Iordache, Marin Neacșă, in: Progress of Cryogenics & Isotopes Separation, 2017, Volume 19, Issue 2

Cited by:

7.1. "Wybrane aspekty eksploatacji bioreaktora membranowego (MBR)", authors: Piaskowski, Krzysztof, and Mateusz Nowacki. In: Technologia Wody 4 (54) (2017): 38-45.

#### E. Published papers indexed by Thomson Reuters Master Journal List, Romanian NURC (The National University Research Council) or by other International Databases:

1. Violeta Niculescu, Claudia Sandru, Marius Miricioiu, **Nadia Paun** - *Amino-functionalized Silica as an Efficient Adsorbent for Wastewater Treatment*, The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education-NUCLEAR 2017, 24-26 May 2017 Pitesti, Romania (Poster Presentation, pp. 81)

2. Marius Miricioiu, Violeta Niculescu, Felicia Bucura, Marius Constantinescu, **Nadia Paun** - *PSF/MCM-41 Mixed Matrix Membranes Prepared for CO<sub>2</sub> Removal from Different Gases*, The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education-NUCLEAR 2017, 24-26 May 2017 Pitesti, Romania (Poster Presentation, pp. 73)

3. Violeta Niculescu, **Nadia Paun**, Marius Miricioiu - *Mesoporous silica - efficient media for phenols removal from wastewater*, The 17<sup>th</sup> International Multidisciplinary Scientific GeoConferences SGEM 2017", 29 June-05 July.2017, Albena, Bulgary, published in: Conference Proceedings, vol. 17/issue 31 – Water Resources, Forest, Marine and Ocean Ecosystems, pp. 477-484

4. R. Tamaian, **N. Paun**, V. C. Niculescu - *New anti DNA topoisomerase naphthalenedione leads*, 19th International Union for Pure and Applied Biophysics Congress & 11th European Biophysics Congress (IUPAB & EBSA 2017, 16-20 July 2017, Edinburgh, Scotland, UK)

5. Marius Miricioiu, Violeta Niculescu, **Nadia Paun**, Gheorghe Nechifor - *CO<sub>2</sub>/N<sub>2</sub> separation yield by using mixed matrix membranes based on mesoporous silica in organic polymer*, The 17<sup>th</sup> International Multidisciplinary Scientific GeoConferences SGEM 2017"- SGEM Vienna Green, 27 November - 29 November.2017, Vienna, Austria, published in: Conference Proceedings, vol. 17/issue 43 – Energy and Clean Technologies, pp. 333-339

6. Violeta Niculescu, **Nadia Paun**, Marius Miricioiu - *Mesoporous silica - efficient media for phenols removal from wastewater*, The International Multidisciplinary Scientific GeoConferences SGEM 2017", 29 June-05 July.2017, Albena, Bulgary, published in: Conference Proceedings, vol. 17/issue 31 – Water Resources, Forest, Marine and Ocean Ecosystems, pp. 477-484

7. Ramona Zgavaroagea, Violeta Niculescu, **Nadia Paun**, Andreea Iordache, Marius Miricioiu - *The optimization of the nanofiltration (NF) concentrate recirculation for phosphorus recovery in MBR wastewater treatment*, The International Multidisciplinary Scientific

GeoConferences SGEM 2017", 29 June-05 July.2017, Albena, Bulgary, published in: Conference Proceedings, vol. 17/issue 51 – Ecology, Economics, Education and Legislation, pp. 973-978

8. **Nadia Paun**, Violeta Niculescu, Radu, Tamaian, Marius Miricioiu - *Functionalized mesoporous silica nanoparticles as novel systems for natural anthocyanins stability enhancement*, The International Multidisciplinary Scientific GeoConferences SGEM 2017", in perioada: 29 June-05 July.2017, Albena, Bulgary, published in: Conference Proceedings, vol. 17/issue 61 – Nano, Bio and Green-Technologies for a Sustainable Future, pp. 149-156

9. Violeta Niculescu, Claudia Sandru, **Nadia Paun**, Marius Miricioiu- *An overview on the removal of nitrogen compounds from water and wastewater*, Progress of Cryogenics and Isotopes Separation, Volume 20, issue 2/2017, pp. 31-42, ISSN: 1582-2575, CNCSIS quote 619, Cat C, Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS).

10. Ramona ZGAVAROGEA, Cristina COVALIU, Violeta NICULESCU, Marius MIRICIOIU, **Nadia PAUN**, Andreea IORDACHE, Marin NEACȘA - *Membrane bioreactor (MR) technology- a new and effective treatment of wastewater*, Progress of Cryogenics and Isotopes Separation Volume 19, issue 2/2016, ISSN: 1582-2575 (pages 61-72), CNCSIS Cat C (619), Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory.

11. Violeta Niculescu, Marius Miricioiu, Ramona Zgavarogea, **Nadia Paun** - *Advances in membranes technology for gas separation and wastewater treatment*, "International Multidisciplinary Scientific GeoConference SGEM", 28 June-7 July 2016, Albena, Bulgaria, BOOK 3-Water Resources, Forest, Marine and Ocean Ecosystems, vol. I "Hydrology and Water Resources, ISBN:978-619-7105-61-2, ISSN: 1314-2704, DOI: 10.5593/SGEM2016B31 (pages 47-54)

12. Ramona Zgavarogea, Violeta Niculescu, Marius Miricioiu, **Nadia Paun**, Marius Constantinescu - *Wastewater treatment: application and future perspectives of anaerobic membrane bioreactors*, "International Multidisciplinary Scientific GeoConference SGEM", 28 June-7 July 2016, Albena, Bulgaria, BOOK 3-Water Resources, Forest, Marine and Ocean Ecosystems, vol. I "Hydrology and Water Resources, ISBN:978-619-7105-61-2, ISSN: 1314-2704, DOI: 10.5593/SGEM2016B31 (pages 821-828)

13. Violeta Niculescu, Irina Geana, **Nadia Paun**, Roxana Ionete, Diana Stegarus\_ – *"Spectrophotometric techniques used for monitoring food additives – an overview"*, in "Progress in Criogenics and Isotopes Separation" Vol. 17, Issue 2/2014, 63-72; ISSN: 1582-2575 CNCSIS Cat. C (619), Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory.

14. Violeta Niculescu, **Nadia Paun**, Mihaela Silion, Marcel Ionel Popa - *Anthocyanin Profile of Blackberries and Grapes*, in "Progress of Cryogenics and Isotopes Separation", Vol. 16. Issue 1/2013, 119-124; CNCSIS Cat. C (619).

15. **Nadia Paun**, Violeta Niculescu (2011) – *Isolation, Purification and Biological Properties of Anthocyanins*. In *Progress of Cryogenics and Isotopes Separation* Volume 14, issue 1/2011, ISSN 1582-2575, 101-110, CNCSIS 619, Cat C, Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS).

16. **N. Paun**, V. Niculescu (2011) – *Extraction of polyphenolic Compounds from Grape Pomace*, "Bulletin UASVM (University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca), Veterinary Medicine", 68(2), 547, pISSN 1843-5246, eISSN 1843-5386. Indexed/included in CAB Abstracts (<http://www.cabi.org/>), Thomson Reuters Master Journal List (<http://science.thomsonreuters.com/mjll/>), VINITI (<http://www2.viniti.ru/>), ASCI (<http://scialert.net/asci/>), Index Copernicus (<http://www.indexcopernicus.com/>).

17.. **Nadia Paun**, Marcel I. Popa, Violeta Niculescu, Radu Tamaian (2010) - *Ultrasound Assisted Extraction of Phenolic Compounds from Grapes*, in "Bulletin UASVM (University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca), Veterinary Medicine" 67(1-2), 491, pISSN 1843-5266, eISSN 1843-536X. Indexed / included in CAB Abstracts (<http://www.cabi.org/>), Thomson Reuters Master Journal List (<http://science.thomsonreuters.com/mjll/>), VINITI (<http://www2.viniti.ru/>), ASCI (<http://scialert.net/asci/>), and Index Copernicus (<http://www.indexcopernicus.com/>).

18. **Nadia Paun**, Violeta Niculescu, Radu Tamaian (2010) - *LC-MS identification of anthocyaninic content from bilberries alcoholic extracts*, in Rev. Progress in Cryogenics and Isotopes Separation number 13, p.35-38, CNCSIS quote 619, ISSN:1582-2575, Ed.Conphys-Rm.Valcea.

19. **Nadia Păun**, Violeta Niculescu, Radu Tamaian and Marcel Ionel Popa - *HPLC Determination of Some Anthocyanins from Red Grapes*, in *Bulletin of the Polytechnic Institute of Jassy, Section Chemistry and Chemical Engineering, Tome 56 (1), p. (81 – 85), ISSN 0254-7104, 2010.*

20. **Nadia Paun**, Violeta Niculescu, Radu Tamaian (2010) - *Identificarea Plumbagin și quercetin, în genul Drosera*, in "Bulletin UASVM (University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca), Veterinary Medicine" 67(1-2), 490, pISSN 1843-5266, eISSN 1843-536X. Indexed / included in CAB Abstracts (<http://www.cabi.org/>), Thomson Reuters Master Journal List (<http://science.thomsonreuters.com/mjll/>), VINITI (<http://www2.viniti.ru/>), ASCI (<http://scialert.net/asci/>), and Index Copernicus (<http://www.indexcopernicus.com/>).

21. V. Niculescu, **N. Paun**, R. Tamaian (2009) - *Quantitative Determination of Two Natural Chromatic Pigments: Juglone and Lawsone*, in "Romanian Journal of Biochemistry", 46 (Suplementa), ISSN 1582-3318, p. 135; Abstracting and indexing in: ISI Thomson Scientific Master Journal List, Biological Abstracts, Biosis Previews, CAB Abstracts, Genamics JournalSeek, VetMet Resource, In-cites (CNCSIS quote 315, CAT B+)

22. V. Niculescu, R. Tamaian, **N. Paun**, A. Pirnau, L. Szabo (2009) – *Synthesis and spectral characterisation of a new metal complex with a bidentate ligand* in "Journal of Physics: Conference Series", 182, 012030, doi:10.1088/1742-6596/182/1/012030; Abstracting and indexing in: Scopus, Scirus, Inspec, ISI Proceedings, Chemical Abstracts, SPIRES, MathSciNet

23. Violeta Niculescu, **Nadia Paun**, Radu Tamaian - *Chromatografic determination of some secondary metabolites in drosera sp*, in Rev. Progress in Cryogenics and Isotopes Separation number 12, p.144-149, CNCSIS quote 619, ISSN:1582-2575, oct.2009, Ed.Conphys-Rm.Valcea.

### C. Published papers in volumes of national and international conferences with program committee:

1. **Nadia Paun**, Violeta Niculescu\*, Marius Miricioiu - *Comparative study on using ethanol and methanol for black grapes polyphenols extraction*, Progress of Cryogenics and Isotopes Separation, Volume 20, issue 2/2017, pp. 51-56, ISSN: 1582-2575, CNCSIS

quote 619, Cat C, Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS)

2. Violeta Niculescu, Claudia Sandru, **Nadia Paun**, Marius Miricioiu - *An overview on the removal of nitrogen compounds from water and wastewater*, *Progress of Cryogenics and Isotopes Separation*, Volume 20, issue 2/2017, pp. 31-42, ISSN: 1582-2575, CNCIS quote 619, Cat C, Abstracting and indexing in: Contemporary Science Association, EBSCO, Ulrich's Periodicals Directory, National Institute of Scientific Information (INIS)

3. Ionela Ramona Zgavaroagea, Violeta Carolina Niculescu, Marius Gheorghe Miricioiu, Andreea-Maria Iordache, Paun Nadia, Cristina Covaliu - *Waste gas biotreatment*, European Biotechnology Congress 2017, 25 - 27 May 2017, Dubrovnik, Croatia (Poster 302)

4. Violeta Niculescu, Claudia Sandru, Marius Miricioiu, **Nadia Paun** - *Amino-functionalized Silica as an Efficient Adsorbent for Wastewater Treatment*, The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education-NUCLEAR 2017, 24-26 May 2017 Pitesti, Romania (Poster Presentation, pp. 81)

5. Marius Miricioiu, Violeta Niculescu, Felicia Bucura, Marius Constantinescu, **Nadia Paun** - *PSF/MCM-41 Mixed Matrix Membranes Prepared for CO<sub>2</sub> Removal from Different Gases*, The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education-NUCLEAR 2017, 24-26 May 2017 Pitesti, Romania (Poster Presentation, pp. 73)

6. Zgavaroagea, Ramona Ionela; Niculescu, Violeta Carolina; Miricioiu, Marius Gheorghe; **Paun, Nadia** - *New trends in sludge mechanical degradation*, "European Biotechnology Congress", 05-07 May 2016, Riga, Latvia, published in: JOURNAL OF BIOTECHNOLOGY, Vol. 231/2016, Supplement: S, DOI: 10.1016/j.jbiotec.2016.05.273 (pages: S75-S75) (Poster)

7. Violeta Niculescu, Marius Miricioiu, Ramona Zgavaroagea, **Nadia Paun** - *Advances in membranes technology for gas separation and wastewater treatment*, "International Multidisciplinary Scientific GeoConference SGEM", 28 June-7 July 2016, Albena, Bulgaria, BOOK 3-Water Resources, Forest, Marine and Ocean Ecosystems, vol. I "Hydrology and Water Resources, ISBN:978-619-7105-61-2, ISSN: 1314-2704, DOI: 10.5593/SGEM2016B31 (pages 47-54)

8. Ramona Zgavaroagea, Violeta Niculescu, Marius Miricioiu, **Nadia Paun**, Marius Constantinescu - *Wastewater treatment: application and future perspectives of anaerobic membrane bioreactors*, "International Multidisciplinary Scientific GeoConference SGEM", 28 June-7 July 2016, Albena, Bulgaria, BOOK 3-Water Resources, Forest, Marine and Ocean Ecosystems, vol. I "Hydrology and Water Resources, ISBN:978-619-7105-61-2, ISSN: 1314-2704, DOI: 10.5593/SGEM2016B31 (pages 821-828)

9. **Nadia PAUN**, Violeta NICULESCU, Radu TAMAIAI - *THE USE OF LIQUID CHROMATOGRAPHY TECHNIQUE FOR ANTHOCYANINS IDENTIFICATION FROM WINES* The 21st Conference "Progress in Cryogenics and Isotopes Separation", 19-21 OCTOBER, 2016, CALIMANESTI - CACIULATA, VALCEA (poster P.30)

10. Ramona ZGAVAROGEA, Cristina COVALIU, Violeta NICULESCU, Marius MIRICIOIU, **Nadia PAUN**, Andreea IORDACHE, Marin NEACȘA - *MEMBRANE BIOREACTOR (MR) TECHNOLOGY- A NEW AND EFFECTIVE TREATMENT OF WASTEWATER*, The 21st Conference "Progress in Cryogenics and Isotopes Separation", 19-21 OCTOBER, 2016, CALIMANESTI - CACIULATA, VALCEA (poster P.18)

11. Radu Tamaian, **Nadia Paun**, Violeta-Carolina Niculescu, *New Aptamer-Based Biosensor – Design Study*, "Applied Nanotechnology and Nanoscience International Conference – ANNIC 2016", 9-11 november 2016, Barcelona, Spain (poster B33)

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13. Violeta Niculescu, Irina Geana, **Nadia Paun**, Roxana Ionete, Diana Stegarus – *"Spectrophotometric techniques used for monitoring food additives – an overview"* - The 20th ICSI Conference "Progress in Cryogenics and Isotopes Technologies", 23-24 October 2014, Calimanesti-Caciulata, Romania. ISBN: 978-973-750-258-2, pp 70.

14. **Nadia Paun**, Violeta Niculescu, Claudia Sandru, Marcel Ionel Popa – *"Total phenolic and anthocyanin contents determination from black grape skins"* - The 20th ICSI Conference "Progress in Cryogenics and Isotopes Technologies", 23-24 October 2014, Calimanesti-Caciulata, Romania. ISBN: 978-973-750-258-2, pp 72.

15. Violeta Niculescu, Irina Geana, Roxana Elena Ionete, **Nadia Paun**, Viorica Parvulescu - *Highly ordered SBA-15 for retention of polyphenols from red wine*, al 6-lea Simpozion International "Recent Advances in Food Analysis", 05-08 Noiembrie 2013, Praga, Cehia; K8-pag 368; ISBN 978-80-7080-861-0.

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18. **Nadia Paun**, Violeta Niculescu (2011) - *Extraction of Phenolic Compounds from Grape Pomace*, Prospects for The 3rd Millennium Agriculture, 29 September-01 October 2011, Cluj-Napoca, Romania, Section 3. Food Science and Technology – Poster, Program Booklet p 53.

19. „*New Naphthoquinonic Antiproliferative Compounds. Toxicity Tests*”, authors: V. Niculescu, R. Tamaian, B. Sevastre, I. Prodan, **N. Paun**, I. Marcus. International Symposium „Chemistry Priorities for a sustainable development”–PRIOCHEM”, 28 – 29 October 2010, Bucharest, Romania, ISBN 978-973-0-09284-4, p. 65 (poster P3-4).

20. "*Studies Concerning DDW Use for Deuterium's Depletion in Animal Organism and for Synthesis of New Naphthoquinonic Antitumoral Compounds*", authors: I. Stefanescu, T. Nicola, C. Mladin, R. Tamaian, V. Niculescu, V. Feurdean, G. Titescu, **N. Paun**; accepted paper at The 1<sup>st</sup> International Symposium on Deuterium Depletion, 13-14 May 2010, Budapest, Hungary; published in Abstracts of 1st International Symposium on Deuterium Depletion, p. 14-15 (Invited paper - oral presentation).

21. *Method development for the identification of some anthocyanins in red wines by HPLC-PDA and LC-MS*", authors: **Nadia Paun**, Violeta Niculescu, Marcel Ionel Popa, Radu Tamaian International Conference of Physical Chemistry"- ROMPHYSICHEM 14, 02-04 June 2010, Bucharest, ROMANIA (Poster, section 5, p. 153).

22. „*Parallel Determination of Some Naphthoquinones and Flavonoids in Carnivorous Plants, Drosera sp*”, authors: **N. Paun**, V. Niculescu, R. Tamaian; accepted paper at The X-th National Conference of Biophysics (CNB 2009); 01-03.10.2009, Cluj-Napoca, Romania

23. „*Synthesis of New Kind of Naphthoquinonic Anti-Tumoural Compounds. Toxicity Tests*”, authors: R. Tamaian, B. Sevastre, V. Niculescu, I. Prodan, N. Paun, I. Marcus; accepted paper at The Annual International Conference of RSBMB, 30.09-03.10.2009, Cluj-Napoca, Romania.

24. „*Determination of 5-hydroxy-1,4-naphthoquinone by high performance liquid chromatography with UV detection*”, authors: V. Niculescu, **N. Paun**, R. Tamaian; published in Proceedings of The 14-th Conference „Progress in Cryogenics and Isotopes Separation” ISSN 1582-257, 29-31.10.2008, Calimanesti-Caciulata, Romania, ISSN: 1582-25752.

25. „*New high performance liquid chromatographic method for determination of 5-hydroxy-1,4-naphthoquinone (juglone)*”, authors: V. Niculescu, **N. Paun**, R. Tamaian; published in Book of abstracts of 4th Central European Conference Chemistry Towards Biology, 08-11.09.2008, Dobogoko, Hungary, ISBN: 978-963-9319-85-1.

26. „*An efficient method for determination of lawsone from Impatiens balsamina*”, authors: **N. Paun**, Violeta Niculescu, R. Tamaian; published in Book of abstracts of 4th Central European Conference Chemistry Towards Biology, 08-11.09.2008, Dobogoko, Hungary, ISBN: 978-963-9319-85-1.

**D. The experience accumulated in Romanian research programs: directly involved in many working research projects as:**

Program/Project	Function	Periods: from (month, year) until (month, year)
NUCLEU Programme – PN 18 12 03 01 Project – ““Studies on the development of micro- and mesoporous materials with improved catalytic properties for their use in solid, liquid and gaseous waste recovery processes”	Co-author of Research Reports	March 2018-ongoing
Program NUCLEU – proiect PN 16 36 04 03, “Cercetari privind dezvoltarea de noi materiale poroase cu proprietati selective si catalitice ridicate pentru reducerea si stabilizarea concentratiilor de poluanti in medii gazoase si lichide”	Author and	2016-2017
Contract de servicii nr. 12777/ 2012 - Servicii de monitorizare a impactului functionarii CNE Cernavoda asupra biotei acvatice si terestre – responsabil elaborare raport anual 2016	– responsabil elaborare rapoarte anuale	2012-2015
Program NUCLEU – proiect PN 09 19 02 08, “Cercetari privind dezvoltarea de noi metode de control al unor contaminanti si aditivi in alimentatie”	Co-author of Research Reports	2013-2014
<b>Contract: POSDRU 87/1.3/S/61991</b> , Proiect “Cresterea competitivității învățământului românesc preuniversitar, din domeniul auto, prin formarea cadrelor didactice la standarde europene. AUTO-FORM”	responsabil marketing	2012-2013
POS CCE Programme, A2-O2.1.1, Project ID 480/2010, Contract 186/2010: “Research and experimentation on improving the process of obtaining deuterium depleted water (QLARIVIA 25)”	Author and co-author of Research Reports	2010-2012
NUCLEU Programme / PN 09 19 02 01: “Researches concerning applicability of isotopic analysis and multi-element method to define authenticity and geographic classification of Romanian wines”	Team member	2009 – 2011
PNCDI II Programme P4, D5. Agriculture, food safety and security / Project 2343/2008 / Financing Contract 52-140/2008: “Food traceability using isotopic methods. Case study: honey and wine (IZOTRANS)”	Team member	2008-2011
PNCDI II P4 Programme, D6 “Obtaining and characterization of new targeted-nanodrugs with naphthoquinonic active substance (NANOQMED)”, Project 1885/2007	Co-author of Research reports	2007-2010
NUCLEU programme PN 06 13 03 01: “Elaboration of the complex system for air quality monitoring through determination of the carbon, nitrogen and sulphur oxides levels; realisation of the data base”	Co-author of Research reports	2006-2007
CEEX “Authority system of analysis mixture gases special used in the research laboratory and of the air quality monitoring, according to the European Union standards and requirements”	Co-author of Research reports	2005-2007
Project INFRATECH CONTRACT 208/2005-“Institutional construction of the Technological and Business Incubator ”	Contract administrator	2005-2006
NUCLEU programme PN 03-10 01 05: “Study respecting development techniques by analysis through IR spectrometry for isotopic hydrogen mixtures on the extended concentration domain ”	Co-author of Research reports	2003-2005