

# Curriculum vitae

## PERSONAL INFORMATION:

**Name:**  
**Address:**  
**Telephone:**  
**Fax:**  
**E-mail:**  
**Nationality:**  
**Date of birth:**  
**Place of birth:**

## PREDA ANISOARA

No. 12, Nuferilor Street, Baile Govora, Valcea, Romania  
+40745613984  
+40350811518  
adelina\_preda@yahoo.com  
Romana  
29 September 1972  
Ramnicu Valcea, Valcea

## AREAS OF COMPETENCE:

Chemistry, Analytical Chemistry, Environment Protection

## EDUCATION:

### ■ 2001 – 2008

University of Craiova  
Faculty of Chemistry

#### **Ph. D in chemistry**

Research Subject: Analytical Chemistry

Name of Doctoral Thesis: **The Analysis of isotopic species of hydrogen from gaseous samples and liquid samples by CG and MS. The optimization of separating method CG.**

### ■ 1996 – 2000

University of Craiova  
Faculty of Sciences  
Research Module: Chemistry  
Student

Graduate average: 8.39

Diploma: Series: R No. 0130052 issued No 4727 on: 20.06.2001

### ■ 1987 – 1991

Theoretical High School Baile Govoral, Baile Govora, Valcea  
Bachelor Diploma

Graduate average: 8.32

Diploma: Series: I No. 224073 issued No 24 on: 30.08.1991

**PROFESSIONAL  
EXPERIENCE:**

■ **2006 – present**

**Senior Research Fellow**

National Research and Development Institute for Cryogenics and Isotopic Technologies - ICSI Rm.Valcea  
Department of Cryogenic Pilot  
Research and development activity

■ **2004 – 2006**

**Research Fellow**

National Research and Development Institute for Cryogenics and Isotopic Technologies - ICSI Rm.Valcea  
Department of Cryogenic Pilot  
Research and development activity

■ **April 2004 – October 2004**

**Junior Research Fellow**

National Research and Development Institute for Cryogenics and Isotopic Technologies - ICSI Rm.Valcea  
Department of Cryogenic Pilot  
Research and development activity

■ **2001 – 2004**

**Chemist**

National Research and Development Institute for Cryogenics and Isotopic Technologies - ICSI Rm.Valcea  
Department of Cryogenic Pilot  
Research and development activity

**PERSONAL APTITUDE  
AND COMPETENCE:**

■ Specialist in Chemistry, specialization: Chemistry, at the Faculty of Chemistry.

■ I took part to the achievement of over 25 research projects.

■ I published 23 articles, 15 with ISI citations.

■ I participated at 28 national and international scientific symposiums.

■ I participated at "Interacademic Exchange 21 October – 04 November 2005 Sankt Petersburg", interacademic exchange between Romanian Academy and Russian Academy.

■ Certificate for linguistic competences for the English language, issued by the University of Craiova, Faculty of History and Letters, Department of Anglo-American languages;

■ Internal Auditor Certificate for tests and calibration.

**PROFESSIONAL  
AFFILIATIONS:**

■ Certificate for the graduation of pedagogic module, issued by University of Craiova, Faculty of Sciences.

■ Certificate for the graduation of the PC operating courses, The Centre for Instruction and Perfecting in Informatics SOFTEXPRESS SA Valcea, 1996.

**AFFILIATIONS:**

**Member in scientific and professional societies**

■ Member of Chemistry Society from Romania, since 2004;

■ Member of Asian Journal of Chemistry Society.

**MOTHER LANGUAGE:**

Romanian

**OTHER LANGUAGES:**

**English:** good

**French:** satisfactory

## List of published articles

1. **Anisoara Preda**, F. Vasut, N. Bidica, C. Dragoiu – *“Influence of Radioactive Isotopes Upon Environment”*- Studia Universitatis Babes-Bolyai, Special Issue 2, XLVIII, 2003, pag. 571-573, ISSN 0370-8578.
2. Felicia Vasut, **Anisoara Preda**, Marius Zamfirache – *“Studies about Interaction of Hydrogen Isotopes with Metals and Intermetallic Compunds”* - Nuclear Energy for Central Europe 2003 Portoroz-Slovenia, 8-11 September 2003 Published in Proceedings of Conference, pages 501.1-501.5, ISBN 961-6207-21-0.
3. F. Vasut, D. Lupu, M. Zamfirache, D. Axente, **Anisoara Preda** – *“Storage Dispositives of Hydrogen Isotopes on Metals and Intermetallic Compunds”* – University of Politehnica Bucuresti, Faculty of Energetic, pag. 381-387, ISBN 973-684-079-8.
4. **Anisoara Preda**, F. Vasut, C. Pearsica - *“Olt River Polution with Heavy Metals in Ramnicu Valcea Area”* - Studia Universitatis Babes-Bolyai, Physica, L, 4b, 2005, pag. 730-733, ISSN 0258-8730.
5. F. Vasut, **Anisoara Preda**, M. Zamfirache, C. Ducu, V. Malinovski - *“Comparative Study about Hydrogen Sorption in Sponge and Powder Titanium”* - Studia Universitatis Babes-Bolyai, Physica, L, 4a, 2005, pag. 365-368, ISSN 0258-8730.
6. **Anisoara Preda**, C. Barbu, Al. Popescu, C. Persica – *“The Study of Heavy Metals Distribution on the Olt River Course around Ramnicu Valcea Area”* – Ovidius University Annals of Chemistry, Volume 17, Number 1, 2006, pag 74-78, ISSN 1223-7221.
7. C. Barbu, **Anisoara Preda**, Al. Popescu – *“The Study of Heavy Metals Distribution on the Jiu River Course”* - Ovidius University Annals of Chemistry, Volume 17, Number 1, 2006, ISSN 1223-7221.
8. F. Vasut, **Anisoara Preda**, M. Zamfirache, C. Ducu, V. Malinovski - *“Comparative Study about Hydrogen Sorption in Sponge and Powder Titanium”*- Progress of Cryogenics and Isotopes Separation, Number 15-16/2005, pag 72-77, ISSN-1582-2575.
9. F. Vasut, I. Stefanescu, N. Bidica, A. Bornea, **Anisoara Preda**, M. Zamfirache, C. Ducu - *“Study about sorption in sponge and powder titanium of hydrogen*

- isotopes obtained from a cryogenic distillation process*”- Renewable Energy 33 (2008) pages 216-220 ISSN 0960-1481
10. **Anisoara Preda**, Alexandru Popescu, Cristina Barbu, Simona Sbirna, Felicia Vasut, Claudia Pearsica, Sebastian Brad – *“Determination of heavy metals concentration on Olt River from Valcea area by atomic absorption spectrometry”*- Asian Journal of Chemistry, Vol. 20, No 3(2008), pages 1893-1899, ISSN 0970-7077
  11. Cristina Barbu, Alexandru Popescu, **Anisoara Preda** and Valentin Brănescu – *“Determination of Toxic Heavy Metals Present in Jiu River Water using ICP- MS”* - Asian Journal of Chemistry, Vol. 20, No 3(2008), pages 2037-2046, ISSN 0970-7077
  12. **Anisoara Preda**, Nicolae Bidica, Alexandru Popescu, Cristina Barbu, Simona Sbirna, Felicia Vasut, Claudia Pearsica - *“Gas-Chromatographic Separation of Hydrogen Isotopes Mixtures on Capillary Molecular Sieve 5A Column”* - Asian Journal of Chemistry, Vol. 20, No 6 (2008), pages 4883-4886, ISSN 0970-7077.
  13. **Anisoara Preda**, C.Pearsica, A. Bornea, F. Vasut, M. Zamfirache *“Analysis of the isotopes hydrogen mixtures from cryogenic distillation separation using Gas Chromatography”*- Asian Journal of Chemistry, Vol. 20, No 8 (2008), pages 6263-6268 , ISSN 0970-7077.
  14. C. Pearsica, L. O. Stefan, **Anisoara Preda**, F. Vasut *“The Condenser Liquid Level Influence in a Cryogenic Distillation Column Operation”* - Asian Journal of Chemistry, Vol.21 No.1(2009), pages 231-238, ISSN 0970-7077.
  15. F.Vasut, **Anisoara Preda**, M.Zamfirache, A.M.Bornea, I.Stefanescu, C.Pearsica *“Improvement of Pt/C/PTFE catalyst type used for hydrogen isotopes separation”*-Fusion Science and Technology, Vol. 54, Aug. 2008, pages 437-439, ISSN 1546-1055
  16. Anisia Bornea, M. Zamfirache, Ioan Stefanescu, **Anisoara Preda**, Ovidiu Balteanu, Ioana Stefan – *“Investigation related to hydrogen isotopes separation by cryogenic distillation”*- Fusion Science and Technology, Vol. 54, Aug. 2008, pages 426-429, ISSN 1546-1055
  17. C.M. Barbu, A. Popescu, D. Selișteanu, **Anisoara Preda**, *The study of the concentrations of the heavy metals from the Jiu River, in post communist*

*Romania*”, Journal Environmental Protection and Ecology, book 3, vol. 9 (2008), ISSN: 1311-5065.

18. **Anisoara Preda**, A. Bornea, C. Pearsica, F.Vasut – **“Gas-Chromatographic Analysis of Mixtures of Hydrogen Isotopes using different Parameters”**- Refrigeration Science and Technology Proceedings, No 2008-1, pages 337-343, ISSN 0151-1637, ISBN 978-2-913149-62-5.
19. C. Pearsica, L. Stefan, **Anisoara Preda**, F. Vasut – **“Cryogenic Distillation Column Behavior at the Variation of an External Factor”**- Refrigeration Science and Technology Proceedings, No 2008-1, pages 319-324, ISSN 0151-1637, ISBN 978-2-913149-62-5.
20. **Anisoara Preda**, Felicia Vasut, Claudia Pearsica, I. Stefanescu, S. Brad, **“Comparative Studies Between Hydrophobic Catalyst Prepared for Isotopic Exchange Process”** – Accepted in Asian Journal of Chemistry, Vol 21, 2009, ISSN 0970-7077
21. **Anisoara Preda**, Claudia Pearsica, Felicia Vasut, I. Stefanescu, S. Brad, Cristina Barbu, Alexandru Popescu, **“The Study of the separation of Hydrogen isotopes mixtures using different concentrations of gas mixtures by Gas Chromatography”**, - Accepted in Asian Journal of Chemistry, Vol 21, 2009, ISSN 0970-7077
22. C.M. Barbu, Al. Popescu, **Anisoara Preda**, D. Selișteanu, D. Stanca, Ș.V. Brănescu, **“The determination of the concentrations of Cr<sup>3+</sup> and Cr<sup>6+</sup> on the Jiu River Course using ICP-MS and on the Olt River using AAS”**- Accepted in Asian Journal of Chemistry, Vol 21, 2009, ISSN 0970-7077.
23. Barbu Cristina Mihaela, **Preda Anisoara**, Ghitulescu Alina, Popescu Alexandru, Petre Emil, Sendrescu Dorin, Branescu Valentin, **“The study of heavy metals concentration on the main rivers from Valcea area”**- Accepted in Asian Journal of Chemistry, Vol. 21, No. 3 (2009)

## Papers presented at national and international scientific symposiums

1. F. Vasut, M. Zamfirache, C. Pearsica, **Anisoara Preda**, N. Bidica – *“Experimental study about hydrogen isotopes storage on titanium bed”* – 4<sup>th</sup> International Yugoslav Nuclear Society Conference, 30 Sept.-04 Oct. 2002, Belgrad, Yugoslavia.
2. **Anisoara Preda**, N. Bidica, V. Stanciu – *“Gas-chromatographic separation of hydrogen isotopes mixtures on capillary molecular sieve 5A column at 173 K”* –Progress in Cryogenics and Isotopes Separation Conference, 10-11 Oct. 2002, Calimanesti-Caciulata, Romania.
3. F. Vasut, D. Lupu, M. Zamfirache, D. Axente, **Anisoara Preda** – *“Storage Dispositives of Hydrogen Isotopes on Metals and Intermetallic Compunds”* – Scintific Sesion MENER 2002, 21-22 November 2002 Bucharest.
4. Felicia Vasut, **Anisoara Preda**, Marius Zamfirache – *“Studies about Interaction of Hydrogen Isotopes with Metals and Intermetallic Compunds”* - Nuclear Energy for Central Europe 2003 Portoroz-Slovenia, 8-11 September 2003 Published in Conference’s Proceedings;
5. **Anisoara Preda**, F. Vasut, N. Bidica, C. Dragoiu – *“Influence of Radioactive Isotopes Upon Environment”* – Molecular and isotopic processes, 27-29 September 2003 Cluj – Napoca;
6. Felicia Vasut, Marius Zamfirache, **Anisoara Preda** – *“Study about burning of hydrogen isotopes on metallic catalyst, in detritiation pilot plant for CANDU reactors”*- Solid State Chemistry 2004 Prague-Cehia, 12-17 September 2004.
7. F. Vasut, **Anisoara Preda**, M. Zamfirache, C. Ducu, V. Malinovski – *“Comparative Study about Hydrogen sorption in sponge and powder titanium”* — “1<sup>st</sup> South East European Congress of Chemical Engineering”, Belgrad 25-28 September 2005;
8. **Anisoara Preda**, F. Vasut, C. Pearsica – *“Olt River Pollution with Heavy Metals in Ramnicu Valcea Area”*, Conference PIM 2005 Cluj Napoca - 22-24 September 2005 Cluj-Napoca.
9. F. Vasut, **Anisoara Preda**, M. Zamfirache, C. Ducu, V. Malinovski – *“Comparative Study about Hydrogen sorption in sponge and powder*

- titanium*”, Conference PIM 2005 Cluj Napoca - 22-24 September 2005 Cluj-Napoca;
10. **Anisoara Preda**, N. Bidica – *“Gas–Chromatography Separation of Hydrogen Isotopes Mixtures”*, Progress in Cryogenics and Isotopes Separation Conference – 12-14 October 2005 Calimanesti.
  11. **Anisoara Preda**, C. Barbu, A. Popescu, C. Pearsica – *“The Study of Heavy Metals Distribution on the Olt River Course around Ramnicu Valcea Area”*, Chemistry National Conference 2006, 12-13 May, Constanta.
  12. C. Barbu, **Anisoara Preda**, A. Popescu – *“The Study of Heavy Metals Distribution on the Jiu River Course”*, Chemistry National Conference 2006, 12-13 May, Constanta.
  13. **Anisoara Preda**, Felicia Vasut, Claudia Pearsica, Sebastian Brad – *“Comparative Studies between Hydrophobic Catalysts Used in Isotopes Exchange”* – SIZEMAT, May 25-27, 2006, Varna, Bulgaria.
  14. F. Vasut, N.Bidica, I.Stefanescu, A. Bornea, **Anisoara Preda**, M. Zamfirache, C. Ducu – *„Study about sorption in sponge and powder titanium of hydrogen isotopes obtained from a cryogenic distillation process „* – June 2006, Nice, France.
  15. Anisia Bornea, Marius Zamfirache, **Anisoara Preda**, Ovidiu Balteanu – *“Experimental results to determine the separation performance of the packages used in cryogenic distillation isotopes”*, 17th International Symposium on Transport Phenomena Conference 2006/09/4-8, Toyama International Conference Center.
  16. C.M. Barbu, A. Popescu, D. Selișteanu, **Anisoara Preda** - *“The study of the concentrations of the heavy metals from the Jiu River, in post communist Romania”*, International Conference Sustainable Development in the Balkan Area: Vision and Reality, Alba Iulia, Romania, 2007
  17. Anisia Bornea, M. Zamfirache, I. Stefanescu, **Anisoara Preda**, Ovidiu Balteanu, Ioana Stefan – *“Investigation related to hydrogen isotopes separation by cryogenic distillation”*, University of Rochester’s – Laboratory for Laser Energetics, 16-21 September 2007.
  18. Felicia Vasut, M. Zamfirache, Claudia Pearsica, **Anisoara Preda** – *“Sorption of hydrogen on sponge titanium; Parameters influencing the process”*, The Fifth

Conference "Isotopic and Molecular Processes" 2007, September 20 – 22 Cluj-Napoca, Romania.

19. Cristina Barbu, **Anisoara Preda**, Al. Popescu, Dan Selisteanu – *“The determination of the concentrations of heavy metals on the Jiu River using ICP-MS, and on the Olt River using AAS”*, The Fifth Conference "Isotopic and Molecular Processes" 2007, September 20 – 22 Cluj-Napoca, Romania.
20. Mihaela Vladu, **Anisoara Preda**, Felicia Vasut, Claudia Pearsica, Cristina Barbu – *“Experimental study about determination of gamma-activ isotopes from environment samples (soil, vegetation, sediments)”*, The Fifth Conference "Isotopic and Molecular Processes" 2007, September 20 – 22 Cluj-Napoca, Romania.
21. Mihaela Vladu, **Anisoara Preda**, Felicia Vasut, Claudia Pearsica, Alina Ghitulescu – *“Calculation of the radionuclides dispersion in atmosphere, as the results of operating a cryogenic pilot plant”*, The Fifth Conference "Isotopic and Molecular Processes" 2007, September 20 – 22 Cluj-Napoca, Romania.
22. Anisia Bornea, Marius Zamfirache, **Anisoara Preda**, Ovidiu Balteanu – *“Experimental results to determine the separation performance of the packages used in cryogenic distillation isotopes”*, International Symposium on Fusion Nuclear Technology, FZK Karlsruhe, 30-September-05 October 2007.
23. **Anisoara Preda**, A. Bornea, C. Pearsica, F.Vasut - *“Gas-Chromatographic Analysis of Mixtures of Hydrogen Isotopes using different Parameters”*, The tenth CRYOGENICS 2008 IIR International Conference, Praha, Czech Republic, 21-25 April 2008.
24. C. Pearsica, L. Stefan, **Anisoara Preda**, F. Vasut - *“Cryogenic Distillation Column Behavior at the Variation of an External Factor”*, The tenth CRYOGENICS 2008 IIR International Conference, Praha, Czech Republic, 21-25 April 2008.
25. F. Vasut, I. Stefanescu, N.Bidica, **Anisoara Preda**, C. Pearsica (David) - *“Storage of Hydrogen Isotopes on Metallic Titanium”*, Nuclear Energy for New Europe 2008, 8-11 September 2008, Portoroz, Slovenia
26. Claudia David, Ioan Stefanescu, Felicia Vasut, **Anisoara Preda**, Alina Ghitulescu – *“The Instability Analysis of the Cryogenic Distillation Column*



*Condenser*”, “Nuclear Energy for Central Europe 2008”, 8-11 September 2008, Portoroz, Slovenia

27. **Anisoara Preda**, Anisia Bornea, Claudia Pearsica, Felicia Vasut, Cristina Barbu, Al. Popescu – “*Gas-chromatofgraphic analysis of mixtures of hydrogen isotopes using different samples loops*”, The Sixth "PIM" Conference "Isotopic Processes" 2008, September 22 – 24 Cluj-Napoca, Romania.
28. Cristina Barbu, Dan Selisteanu, **Anisoara Preda**, Alina Ghitulescu – “*The study of the distribution of some heavy metals on the main tributaries of the Jiu river course using ICP-MS*”, The Sixth "PIM" Conference "Isotopic Processes" 2008, September 22 – 24 Cluj-Napoca, Romania.